Mobuoy Road Waste Site Remediation Stage 1 – Phase 1 Services, Task Order 1

Updated Detailed Quantitative Risk Assessment (DQRA)

Project No: MOBUOY-TTE-XX-XX-RP-I-0013

Status: S4







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PRESENTED TO

PRESENTED BY

Northern Ireland Environment Agency (NIEA), Department of Agriculture, Environment and Rural Affairs (DAERA)

Tetra Tech Ltd

EXECUTIVE SUMMARY

The Brief Tetra Tech Limited (Tetra Tech) were appointed by Northern Ireland Environment Agency (NIEA), an executive Agency within the Department of Agriculture, Environment and Rural Affairs (DAERA) under the Mobuoy Road Waste Site Remediation Project to undertake all aspects required to recommend and implement a remediation strategy for the Mobuoy Road waste site in Co. Londonderry. As part of this brief, Tetra Tech have completed a review of existing environmental risk assessments. This information is presented in the Tetra Tech report 'Risk Assessment Review & Site Investigation Scope Design' Project No. MOBUOY-TTE-XX-XX-RP-I-0001, dated September 2021. The information gathered was used to inform the scope of further site characterisation works (i.e., a Ground Investigation) and subsequent risk assessments, as per Task Order 1.16 of the Scope of Services (revision 1), March 2020 and to inform an update to the existing DQRA, (Sirius 2017). This document presents an Updated Detailed Quantitative Risk Assessment (DQRA) as detailed at Task Order 1.16 of the Scope of Services. **Report Context** This document updates the previous DQRA completed by Sirius, 2017 and is informed by additional site investigations and monitoring works completed from October 2021 to May 2022. The DQRA completed by Sirius deals specifically with risk to water receptors only and the update presented here reflects the same. The recent site investigation includes further characterisation of wastes, soils and assessment of ground gas conditions to inform future remediation design. This information will not be considered (unless relevant in the assessment of risk to water receptors) but will be considered further during the development of the Remediation Options Appraisal and Remedial Strategy. The works have been completed in accordance with current Land Contamination Risk Management (LCRM) Guidance, Environment Agency, October 2020. The findings of the Updated DQRA will be used to inform the development of an Optimum Remedial Strategy reflective of the future land use as informed by the site vision masterplan. **Site Context** A summary of site conditions is presented in the Scoping Study (Tetra Tech, September 2021) referred to previously. The site assessment will refer to two areas or parcels of lands described as Campsie Sand and Gravels (CS&G) located to the west of the Mobuoy Road and City Industrial Waste (CIW). These areas have been further segregated or zoned based on their waste and/or contaminant characteristics. **Summary of** The recent exploratory works designed and overseen by Tetra Tech were carried out additional site between October 2021 and May 2022. The works were completed principally over investigation & three phases (1-3) as summarised below. The site investigation and monitoring works monitoring works were completed by site investigation contactor Causeway Geotech Ltd (CGL). Phase 1 - Involved the completion of 41no. boreholes and the excavation of 44no. trial pits. Boreholes were generally progressed to depths of c.10-15 mbgl (meters below ground level) and trial pits excavated to depths up to 4 mbgl. Phase 2 - Involved the completion of 30 no. boreholes. Boreholes were progressed typically to depths of c.10-15 mbgl (meters below ground level). Four no. trial pits were

excavated in the southwest of CS&G to depths up to 4 mbgl.

Phase 3 - Involved the progression of 5no. boreholes and 8 no. trial pits. Boreholes were typically progressed to depths up to 13 mbgl and targeted an area of tarry waste deposition in the central CIW site. Trial pits were typically excavated to depths of c. 7 mbgl with 8 no. in the area to the south of CIW..

Soils Sampling - Representative soil samples were typically collected at predetermined intervals during borehole progressions and trial pit excavations, generally every 1m or as informed by onsite visual and/or olfactory observations. Trial pits were primarily but not exclusively excavated to assist in the characterisation and classification of wastes and soils, particularly in areas of the site which will require removal or relocation of soils/wastes to support the future integration of the A6 road scheme.

Groundwater and leachate Sampling - Groundwater and leachate sampling comprised the retrieval of 94no. samples during the initial phase of investigation with a further 50no. samples collected in phases 2 and 3.

Surface water Sampling - samples were also collected from surface water features including ponds, tributaries and the River Faughan which bounds the site along its western boundary. **Ground Gas Monitoring -** Ground gas was monitored on 4 occasions by the CGL on between January and June 2022.

Permeability Testing - Ten variable head tests were completed by CGL at predetermined locations as informed by the Scoping Study (Tetra Tech, September 2020). Further details are presented in this report.

MPRT (Mobuoy Project Remediation Team) Quarterly Monitoring Data

The current site assessment data (Tetra Tech 2021/22) has been augmented following a review of the quarterly monitoring data (2017-2021) provided by the NIEA's MPRT as part of their ongoing Environmental Monitoring Programme. Further details are presented herein.

Updated Conceptual Site Models (CSM) (Pre-Updated DQRA)

Following the completion of the additional site investigation, monitoring and sampling works the Conceptual Site Model (CSM) (Sirius DQRA, 2017) has been reviewed and updated where applicable to reflect current site conditions.

PCoCs (Potential Contaminants of Concern) observed generally remain consistent with those observed during earlier phases of site investigation since 2016. With respect to heavy metals, the main PCoC's are iron, manganese. Lower concentrations of nickel, zinc, copper, lead and cadmium have also been detected. Ammonia has been recorded site wide. There are localised areas of elevated organic pollutants, particularly in the central area of the CIW site. These organic pollutants are linked to the deposition of tarry wastes which have been observed on site from the 1970s and confirmed through recent site investigations. Analytical data supports a direct correlation between observed tarry waste signatures detected in groundwater within Zone 3 and those observed within Zone 8 to the immediate west and down hydraulic gradient.

A series of CSMs have been developed for assigned source areas which will be used to inform future risk assessment.

Updated DQRA Summary

Tetra Tech has adopted the same modelling approach taken by Sirius in their 2017 DQRA, but with the benefit of a significantly increased data set which has enabled greater understanding of ground conditions, migration pathways, and contaminant types. The existing monitoring network has been enhanced with the progression of a further 67 no. monitoring wells. These monitoring wells have been sampled in addition to the existing network to inform current site conditions. Long term monitoring data provided as part of the NIEA's EMP (Environmental Monitoring Programme) has also been used to inform the updated assessment.

Detailed quantitative risk assessment of specific source areas was undertaken in accordance with the Environment Agency's Remedial Targets Methodology (RTM) for assessing risk to controlled waters. The assessment was undertaken using the modelling software ConSim to complete level 3a groundwater modelling and to derive SSAC (site specific assessment criteria) protective of groundwater.

Additionally, water balance modelling was then undertaken to determine separate SSAC, based upon contaminant fluxes in groundwater and surface water, compared with volumetric flow rates within the river Faughan. Using detailed flow data for the River Faughan, it is possible to calculate the maximum load of each potential contaminant of concern that could enter the River before the concentration threshold for that contaminant would be breached within the surface water. Based on the known flux rate of each contaminant, it is also possible to calculate the concentration (site specific assessment criteria) of each contaminant within each source that would not result in such a breach. In essence, the water balance modelling constitutes a Level 4 assessment under the remedial target methodology.

The two approaches are complementary and provide equally important information about the different pathways which are potentially operating at the site. Furthermore, cross-referencing between the two methods allows the overall risk assessment to be refined so that a robust and balanced overall assessment is made.

More weight is attached to exceedances of the water balance derived SSAC, as these include the effects of dilution within the River Faughan. By comparison, the ConSim derived SSACs are inherently conservative as they are derived from the modelling of a continuous groundwater source, which in some cases is located extremely close or adjacent to the River Faughan itself.

Modelling indicates a moderate risk associated with PAH species, aromatic hydrocarbons and BTEX compounds in Source Areas 3,8 and 5. Benzene and Naphthalene come closest to exceeding the water balance derived SSACs in source areas 3.8 and 5 of all contaminants considered.

Moderate impacts have also been assigned to BTEX, PAH and aromatic hydrocarbons in Source Zones 1,2,3, 6 and 7. However, when dilution is accounted for in the River Faughan, it is considered unlikely that the EQS would be exceeded in the river, even with dilution reduced by a factor of 10.

Ammonia, cadmium, zinc, nickel and free cyanide have also been assigned moderate risk ratings across several source zones. Due to the limited dilution available within the shallow aquifer, and generally short travel times from the source areas to the river receptor, the ConSim modelling predicts that contaminated groundwater will reach the bank of the river at concentrations in excess of the EQS. However, when dilution within the river is factored in, it is unlikely that they will have a measurable impact upon the River Faughan. -consequentially, they are assigned a moderate risk rating. Cumulative impacts from the site are not expected to result in a breach of EQS, as demonstrated by a whole site dilution model.

Model limitations, calibration and sensitivity have been reviewed and discussed. ConSim modelling is estimated to be conservative, overpredicting downgradient groundwater concentrations – the level 3a modelling is therefore assessed as highly conservative. The ConSim modelling is sensitive to aquifer hydraulic gradient and conductivity, but a good fit has been found for aquifer baseflow between the ConSim and water balance models.

Conclusions & Recommendations

The completion of an additional c.81no. boreholes and 60no. trial pits has significantly enhanced our understanding of the site and the contamination issues. This has enabled us to build on the work completed in 2017, refine and update the Conceptual Site Model and considerably reduce uncertainty in respect of contamination risks to the water environment. Contaminant modelling completed as part of this assessment has benefited from the data captured as part of the c.141no. additional investigation points completed since 2021.

The Tetra Tech updated DQRA found that based on several lines of evidence, the overall impact of the Mobuoy Road site on the River Faughan is likely to be low. This is consistent with the earlier DQRA findings by Sirius in 2017.

It is recognised that in undertaking detailed quantitative risk assessment of the Mobuoy Road sites, simplification and assumptions have been made as part of the modelling of these complex and heterogenous source areas. Local variations in both physical geological and hydrogeological parameters, and contaminant concentrations mean that simplification of the modelled system have been necessary. However, where assumptions and simplifications have been made, every effort has been made to make sure that the assumptions err on the side of caution and adopt as conservative an approach as possible.

ConSim modelling indicates that when current groundwater quality concentrations are modelled using realistic aquifer parameters, predicted groundwater concentrations for multiple contaminants of concern are likely to exceed their respective environmental screening criteria at the site boundary / the banks of the River Faughan.

However, when dilution in the River Faughan is taken account of, the water balance modelling demonstrates that it is very unlikely that the level of impact will be sufficient to compromise the quality of the River Faughan in terms of its suitability for drinking water abstraction at Cloghole. Even during drought conditions, the contaminant flux leaving the site is limited compared to the flow in the River Faughan and contaminants of concern are expected to remain essentially undetectable.

The appropriateness of relying upon dilution within a receptor to reduce the level of risk is considered a special case within the Remedial Target Methodology. Relying upon dilution within the River Faughan may be considered appropriate in terms protecting the downstream surface water abstraction. However, such an approach allows some derogation of and prevents the utilisation of shallow groundwater resources within proximity of the Mobuoy Road site. The loss of such potential future utilisation of the superficial groundwater resource should be weighed against the actual likelihood or practicality of such a future abstraction taking place from the shallow aquifer.

The shallow River Faughan Groundwater Body (GWB) is not only a contaminant pathway but is also categorised as an environmental receptor in its own right for the purpose of risk assessment under statutory protection obligations. Remediation is necessary to improve the quality of the groundwater locally and achieve betterment of the chemical status of the Faughan Groundwater Body, which in turn will reduce the risk to the River Faughan. Remediation will provide increased confidence in the water quality of the River Faughan and subsequently improve the long term security of the public drinking water abstraction downstream of the site.

The DQRA findings provide a strong basis for the subsequent Remedial Options Appraisal and Optimum Remediation Strategy development.

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GLOSSARY OF ACRONYMS

Acronym	Description
AA	Annual Average
ACMs	Asbestos Containing Materials
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
C&D	Construction and Demolition
CEMP	Construction Environmental Management Plan
CIEH	Chartered Institute of Environmental Health
CIW	City Industrial Waste
CLEA	Contaminated Land Exposure Assessment
CoCs	Contaminants of Concern
CS&G	Campsie Sand and Gravel
CSM	Conceptual Site Model
DWS	Drinking Water Standard
DQRA	Detailed Quantitative Risk Assessment
EA	Environment Agency (England and Wales)
EMP	Environmental Monitoring Program
EQS	Environmental Quality Standard
FoS	Factor of Safety
GAC	Generic Assessment Criteria
GQRA	Generic Quantitative Risk Assessment
HOST	Hydrology of Soil Types
ICT	Integrated Consultancy Team
LoD	Limit of Detection
LCRM	Land Contamination Risk Assessment
LQM	Land Quality Management Ltd
MAC	Maximum Allowable Concentration
M-BAT	Metal Bioavailability Assessment
Mbgl	Meters Below Ground Level
MDP	Mini Drive-point Piezometers
MORECS	Meteorological Office Rainfall and Evaporation Calculation System
MPRT	Mobuoy Project Remediation Team

Acronym	Description
MTBE	Methyl tert-butyl ether
NIEA	Northern Ireland Environment Agency
PAH	Polycyclic Aromatic Hydrocarbon
PCoC	Potential Contaminant of Concern
PDFs	Probability Density Functions
PLL	Potential Pollutant Linkages
PNEC	Predicted No Effect Concentration
PoSPark	Parks and Open Space
PRA	Preliminary Risk Assessment
QA/QC	Quality Assurance/Quality Control
RTC	Remedial Target Criteria
RTM	Remedial Targets Methodology
S4ULS	Suitable for Use Levels
SSAC	Site Specific Assessment Criteria
SVOC	Semi-volatile Organic Compound
TSV	Threshold Screening Value
TPH	Total Petroleum Hydrocarbon
VOC	Volatile Organic Compounds
WFD	Water Framework Directive
WHO	World Health Organisation

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1. INTRODUCTION

1.1. INSTRUCTION

Tetra Tech Limited (Tetra Tech) were appointed by Northern Ireland Environment Agency (NIEA), an executive Agency within the Department of Agriculture, Environment and Rural Affairs (DAERA) under the Mobuoy Road Waste Site Remediation Project to undertake all aspects required to recommend and implement a remediation strategy for the Mobuoy Road waste site in Co. Londonderry.

1.2. BRIEF

This document presents an Updated Detailed Quantitative Risk Assessment (DQRA) as detailed at Task Order 1.16 of the Scope of Services. The update was possible following a review of existing relevant data. The DQRA has also been augmented with additional site investigation and associated, monitoring and sampling data. The review of existing data and development of the additional site investigation scope is presented in the Tetra Tech report 'Risk Assessment Review & Site Investigation Scope Design' Project No. MOBUOY-TTE-XX-XX-RP-I-0001, dated September 2021.

These works and assessment have been completed in accordance with LCRM Guidance1.

1.3. LEGAL CONTEXT

Part III of the Waste and Contaminated Land (Northern Ireland) Order 1997, has been enacted but is not yet in force, outlines the regulatory regime under which land and water contamination issues in Northern Ireland are assessed and managed. The Order defines contaminated land as:

"Any land which appears to a district council in whose district it is situated to be in such a condition, by reason of substances in, on or under the land, that:

- Significant harm is being caused, or there is a significant possibility of such harm being caused; or
- Pollution of waterways or underground strata is being, or is likely to be, caused."

Inherent in this definition is the requirement for contamination risk assessment to be undertaken on a site-specific basis, as the potential for harm is determined by the site's end use and its specific environmental setting.

https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm



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The following enacted legislation are also considered relevant to the current commission.

- The Water Supply (Water Quality) Regulations (Northern Ireland) 2017
- The Water Environment (Water Framework Directive) Regulations (Northern Ireland) 2017
- The Water Framework Directive (Classification, Priority Substances and Shellfish Waters) Regulations (Northern Ireland) 2015
- Groundwater Regulations (Northern Ireland) 2009
- Environmental Liability (Prevention and Remediation) Regulations (Northern Ireland) 2009
- The Hazardous Waste Regulations (Northern Ireland) 2005
- The Surface Waters (Abstraction for Drinking Water) (Classification) Regulations (Northern Ireland) 1996

This is list is not intended to be exhaustive and does not refer to various secondary legislation and subsequent amendments.

1.3.1. Pollutant Linkage Concept

In the context of land contamination, there are three essential elements to any risk:

- A contaminant source a substance that is in, on or under the land and has the potential to cause harm or to cause pollution of controlled waters.
- A receptor in general terms, something that could be adversely affected by a contaminant, such as people, an ecological system, property, or a water body.
- A pathway a route or means by which a receptor can be exposed to, or affected by, a contaminant.

Each of these elements can exist independently, but they create a risk only where they are linked together, so that a particular contaminant affects a receptor through a particular pathway. This kind of linked combination of contaminant–pathway–receptor is described as a **pollutant linkage**.

1.3.2. Conceptual Model

An important thread throughout the overall process of risk assessment is the need to formulate and develop a **conceptual site model (CSM)** for the site, which supports the identification and assessment of pollutant linkages. A conceptual model represents the characteristics of the site in diagrammatic or written form and shows the possible relationships between contaminants, pathways and receptors (pollutant linkages).

A series of updated CSMs will be developed following a review of the existing site information and the additional data gleaned following the additional site investigation and monitoring works completed as part of the current commission.

1.4. TERMS AND CONDITIONS

Tetra Tech was appointed via competitive tender under the Tender Mobuoy Road Waste Site Remediation Project Integrated Consultant Team (ICT) Services, Project No: 692187ATC to support an updated risk assessment and development of an optimum Remedial Strategy for the site.

This report represents an update to the DQRA (Sirius, 2017) as set out at Task No. 1.1.6 and will support future risk assessment and remedial design. It is not intended for use by any third party unless specifically stated by the ICT.

1.5. PROJECT BACKGROUND

The Mobuoy Remedial Project herein referred to as the 'site' is located on the outskirts of city of Derry/Londonderry on the Mobuoy Road. It encompasses an area of approximately 46ha and currently consists of two distinct parcels of land identified as City Industrial Waste (CIW) and Campsie Sand and Gravels (CS&G). The site is located within an area of agricultural fields and is bound to the western boundary by the River Faughan. Site location and site plans are presented as Figures 1 and 2 respectively.

The City Industrial Waste site is located to the east of the Mobuoy Road and covers an area of approximately

14Ha. It comprises of a former waste processing facility, closed landfill and an area of former sand and gravels extraction located approximately 100m east of the River Faughan. A closed landfill is located on this site characterised by a rectangular shaped plateau elevated approximately 4 m above the level of the former CIW waste processing facility. Wastes in the area were proven to be up to 14m in thickness.

It is understood (Mills Report²) a landfill site owned and run by Derry City Council was present from 1980. In 1996, CIW was granted a waste disposal license to operate on the site. By 2004, a Materials Recycling Facility (MRF) had been created. A Closure Notice for the landfill site was issued in 2008.

The Campsie Sand and Gravel site is irregularly shaped elongated north to south and covers an area of approximately 33Ha. The western boundary of the site is bound directly by the River Faughan, and an earth embankment runs along the majority of the boundary although is locally absent. The southern portion of the site is transacted by an unnamed tributary of the River Faughan and is accessed by an earth bridge to the south of the disused processing area. The southern area of is characterised by undulating scrub land with various engineered surface water channels and areas of ponded water.

Current estimates of waste volumes deposited provided by the NIEA³ suggest the site contains approximately 1,165,000m³ of infill which includes construction and demolition waste, domestic wastes, metallic wastes and a mixture of all of these.

³ FAQs – Mobuoy Remediation Project September 2021 (http://www.daera-ni.gov.uk/publications/mobuoy-road-waste-project-documents)



² A review of waste disposal at the Mobuoy site and the lessons learnt for the future regulation of the waste industry in Northern Ireland, Christopher Mills, December 2013

A series of environmental risk assessments (refer to Section 2, below) have been completed following a number of site investigation, surveys and subsequent monitoring works with surveys generally appointed post 2015. The premise of these assessments has been generally to characterise the risk posed to the environment following the unauthorised waste deposition and to inform the site Remedial Options Appraisal and Remedial Strategy.

The NIEA's MPRT (Mobuoy Project Remediation Team) continue to monitor the site as part of an Environmental Monitoring Programme (EMP) which was ongoing at the time of writing.

1.6. REPORT CONTEXT

This document updates the DQRA completed by Sirius, 2017 and is informed by additional site investigations and monitoring works completed from October 2021 to May 2022 and data collected by NIEA from July 2016 to May 2021. The DQRA completed by Sirius deals specifically with risk to water receptors only and the update presented here will reflect the same. The recent site investigation also included the characterisation of wastes, soils and assessment of ground gas conditions. This information will be used to inform the site's remedial design.

The findings of the Updated DQRA will be used to inform the development of an Optimum Remedial Strategy reflective of the future land use as informed by the site vision masterplan.

2. SUMMARY OF PREVIOUS ASSESSMENTS

As stated, the Tetra Tech report 'Risk Assessment Review & Site Investigation Scope Design' (September 2021) presents a review and summary of environmental risk assessments relevant to the assessment of site conditions which included the Sirius DQRA report (2017⁴).

For reference purposes and to inform the context of this report a brief summary of the report is presented below.

2.1. SIRIUS GEOTECHNICAL AND ENVIRONMENTAL: DETAILED QUANTITATIVE RISK ASSESSMENT, REPORT C6669A, JANUARY 2017

The assessment included a review of previous site investigation information to develop the preliminary risk assessment (PRA) and conceptual site model which was used to establish potential contaminant linkages requiring further investigation by detailed quantitative risk assessment. Data gaps were identified to inform additional targeted fieldwork and monitoring which was used to develop an updated conceptual site model as the basis of this detailed quantitative risk assessment.

A revised risk assessment of potentially important contaminant linkages was carried out together with recommendations for the next steps in the contaminated land management process.

The Risk Assessment was considered on the basis of site zones as derived via the WYG PRA, 2016 report. These are summarised below.

Table 2-1 - Description and rationale for source zone selection -Sirius (WYG PRA 2016)

Source zone reference	Description	Contaminants of concern identified based on PRA
Source zone 1	Area of unauthorised landfilling in the north of the City Industrial Waste site. Comprising mixed organic, domestic and construction and demolition type wastes.	Elevated leachable / dissolved concentrations of metals, sodium, chloride, sulphate, Total Petroleum Hydrocarbon (TPH) compounds (including benzene, toluene, ethylbenzene and xylenes (BTEX), Polycyclic Aromatic Hydrocarbons (PAHs) and phenols.
Source Zone 2	Area of the historic closed (formerly permitted) landfill, which contains mixed domestic and construction and demolition-type wastes. Thin bands of clay strata are present near the surface and forming horizontal bands within the waste.	Elevated leachable / dissolved concentrations of metals, sodium, chloride, sulphate, Total Petroleum Hydrocarbon (TPH) compounds (including benzene, toluene, ethylbenzene and xylenes (BTEX), Polycyclic Aromatic Hydrocarbons (PAHs) and phenols.
Source zone 3	Area to the southwest of the closed landfill, un-investigated at the time of the PRA but potentially the location of tarry wastes described within historic reports.	Potential for elevated leachable / dissolved concentrations of PAHs, TPH compounds, BTEX, VOCs, SVOCs and phenols associated with tarry wastes reported to be buried centrally in the City Industrial Waste site.

⁴ SiRiUS Geotechnical and Environmental: Detailed Quantitative Risk Assessment, Report C6669A, January 2017



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Source zone reference	Description	Contaminants of concern identified based on PRA
Source Zone 4	Raised area of waste material deposited towards the south-eastern area of the City Industrial Waste site. Previous investigations indicated domestic and construction and demolition-type wastes in this area.	Elevated leachable / dissolved concentrations of metals, chloride, PAHs, TPH compounds, BTEX, organophosphorus pesticides and phenols.
Source zone 5	Area of former Campsie Sand and Gravel where historic documentary evidence suggested that tarry wastes may have been deposited.	Potential elevated leachable / dissolved concentrations of PAHs, TPH compounds, BTEX, VOCs, SVOCs and phenols associated with tarry wastes.
Source zone 6	Area in the central southern part of Campsie Sand and Gravel were previous investigations had identified hydrocarbons.	Elevated leachable / dissolved concentrations of metals, ammoniacal nitrogen, chloride, PAHs, TPH compounds, BTEX, VOCs, SVOCs, organophosphorus pesticides and phenols.
Source zone 7	Localised area of construction and demolition type wastes in the north of Campsie Sand and Gravel site.	Elevated leachable / dissolved metals, ammoniacal nitrogen and chloride and slightly elevated leachable / dissolved concentrations of TPH compounds and benzene.

Additional contaminants of concern considered were ammoniacal nitrogen, dissolved manganese and dissolved iron. These were present across the wider site area at concentrations which exceed their respective generic assessment criteria.

2.1.1. Sirius Additional Site Investigation and Monitoring

Table 1 of Appendix B of the Sirius report identifies actions arising from the PRA. Further investigations to address data gaps were completed by Causeway Geotechnical between 23rd May and 5th October 2016 and comprised:

- Mechanical excavation of 33 No. trial pits (Refs. TP01 to TP32 and TP27A), to a maximum depth of 4.8m below ground level (bgl).
- Drilling of 7 No. cable percussion boreholes (Refs. BH01 to BH07), to a maximum depth of 14m, including
 installation of groundwater monitoring wells to maximum depth of 14m bgl.
- Drilling of one hand-held window sample borehole (Ref. WS01) on the eastern bank of the River Faughan, to a depth of 3m bgl.
- Performance of nine variable head permeability tests in the natural strata within selected cable percussion boreholes.
- Sampling of lagoon bed sediment and surface water at five locations across the two larger surface water bodies in the north (Refs. LP1 to LP5), by aid of a boat and grab sampling device.
- Installation of four stainless steel driven piezometers (Refs. PIEZO01 to PIEZO04) in the hyporheic zone beneath and adjacent to the eastern bank of River Faughan, to a maximum depth of 2.5mbgl.
- Installation of four data loggers within selected monitoring wells across the site (Refs. BH02, BH05, BH06 and WYG BH122). One data logger was also installed within the surface water collection lagoon in the south-west of the City Industrial Waste site.

- Installation of two electronic channel flow meters (Refs. FLOW METER 1 AND FLOW METER 2) within the tributary of the River Faughan at two separate locations along its course; and,
- Collection of weather data from local Meteorological Office recording stations.

2.1.2. Sirius GQRA

An initial generic quantitative screening of results against generic assessment criteria was carried out to identify contaminants of concern for detailed quantitative risk assessment within each area. In addition, a review of site wide groundwater data was conducted to assess the general chemical quality of the shallow aquifer beneath the site and to identify other potential contaminant sources.

Table C1 Appendix C of the report presents maximum and minimum concentrations for each source area which are compared against GAC (generic assessment criteria). The GAC adopted for Freshwater were The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2011 - Inland waters, Groundwater Drinking Water Protected Areas - The River Basin Districts Typology, Standards and Groundwater threshold values (Water Framework Directive) (England and Wales) Directions 2010 and Freshwater EQS (AA). DWS (Drinking Water Standards) adopted were The Water Supply (Water Quality) (Amendment) Regulations (Northern Ireland) 2010 (SR 128) operational since 20 April 2010 and the Surface Water (Abstraction for Drinking Water) Classification) Regulations Northern Ireland 1996.

2.1.3. Source Zones 1, 2 & 3

Source zones 1, 2 and 3 were assessed together as comprising a single source area as there was not considered to be a discernible difference in terms of contaminant concentrations, waste types or hydrogeological behaviour that would result in a practical distinction between these areas in terms of risk assessment modelling.

Generic quantitative screening indicated that metals (aluminium, arsenic, chromium, copper, iron, lead, nickel and zinc), PAHs, aliphatic and aromatic hydrocarbons, BTEX components, some phenols (e.g., 4- methylphenol) and ammoniacal nitrogen were present at concentrations in excess of generic thresholds applied. Elevated concentrations of chloride, sulphate and nitrite are also present which appear to have been compared with available DWS in the absence of EQS.

Soil data from this area indicated elevated concentrations of iron, manganese and zinc within the waste compared to other parts of the site. Ammoniacal nitrogen concentrations of up to 470mg/kg were recorded. Generally, no notably elevated concentrations of PAHs were found within the waste materials, but elevated concentrations of hydrocarbons were apparent. Detectable but generally low concentrations of BTEX compounds and other VOCs, including N-propylbenzene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, 4-isopropyltoluene, 1,4-dichlorobenzene and 2-methylphenol, were identified. Phenolic compounds were detectable but not found at notably elevated concentrations in soil.

2.1.4. Source Zone 4

Slightly elevated concentrations of some metals (chromium, copper and lead) were identified within groundwater in zone 4, together with elevated concentrations of dissolved iron. Slightly elevated concentrations of BTEX and PAHs were also identified although concentrations of these were generally within the same order of magnitude as the generic assessment criteria. Concentrations of manganese were elevated but to a much lesser extent than in zones 1, 2 & 3.

Soil data from within zone 4 indicate relatively high concentrations of iron in soil (14,000-19,000mg/kg).

Average ammoniacal nitrogen concentrations of 137mg/kg were found, with a maximum concentration of 840mg/kg reported. Generally low but detectable concentrations of hydrocarbons, phenolics and BTEX compounds were also present in soils.

2.1.5. Source Zone 5

Additional investigation of this area did not identify the suspected source of tarry materials and demonstrated predominantly natural strata free from waste materials. On this basis Source zone 5 was not taken forward for detailed quantitative risk assessment.

2.1.6. Source Zone 6

Several metals were identified within groundwater in this area at concentrations above generic assessment thresholds, however, average concentrations were only slightly above the criteria and remain within the same order of magnitude in all cases, except for iron and manganese, the concentrations of which were described as 'greatly' elevated.

TPH was identified as comprising predominantly aliphatic EC6-8 substances at an average concentration of 1.3mg/l. Phenolic compounds are also present with an average 4-methylphenol concentration of 2.7mg/l detected. Ammoniacal nitrogen concentrations of up to approximately 700mg/l have been detected in BH203, with an average of 240mg/l calculated for the zone. Investigation of the soils in this source area indicated elevated concentrations of iron, PAHs, TPH (<1000mg/kg) and detectable concentrations of phenolics were identified within 4 of six samples from this area.

2.1.7. Source Zone 7

Several metals, hydrocarbon fractions and BTEX compounds were detected in groundwater at concentrations slightly above generic assessment criteria although the margins of exceedance are generally small. No significant phenolic compounds have been identified within this source area. Ammoniacal nitrogen concentrations of up to 1012 mg/l have been recorded with an average concentration of 980mg/l.

Investigation of soils in source zone 7 indicated concentrations of iron between 17,000 and 21,000mg/kg and ammoniacal nitrogen of between 46 and 210mg/kg.

Concentrations of TPH in the region of 2,000mg/kg were detected in one sample of soil tested, other detectable

BTEX and VOCs present in soils.

2.1.8. Source Zone BH206

Groundwater obtained from BH206 has consistently been found to contain elevated concentrations of BTEX compounds with benzene and toluene concentrations notably higher than those recorded in zones 1, 2 & 3 to the north. Sirius considered this as a localized source area although no evidence of impacts was noted in the wastes investigated.

Investigation of soils in the area around BH206 locally identified low level hydrocarbon impacts (total <1000mg/kg). Maximum concentrations detected (470mg/kg) were of aliphatic EC21-35 hydrocarbons. A detectable concentration of xylene of 1.6mg/kg was recorded.

2.1.9. Groundwater external to source areas

Analytical results for site groundwater in areas out with the main source zones, including those wells downgradient of the main source areas, did not generally exhibit signs of impact with hydrocarbons, phenolic compounds or VOCs.

Sirius considered ammoniacal nitrogen, manganese and iron concentrations observed believed likely to be a combination of natural background concentration due to the chemical composition of the natural geological setting, together with an additional component derived from the waste sources and, in the case of iron and manganese, the hydrochemical effects of historical on-site processes such as sand and gravel extraction. Ammonia detected within surface waters within the catchment is very likely to be present due to the predominant agricultural land use in the area surrounding the site.

Sirius considered dissolved manganese and iron are also likely to be present in groundwater as a by-product of microbial activity which takes place during the degradation of (natural or waste-derived) organic contaminants in oxygen-depleted groundwater (reducing conditions).

Other potential contaminants of concern were not generally detected in groundwater at concentrations exceeding generic threshold criteria outside of the above-defined source areas.

2.1.10. Sirius Hydrogeological Model

Additional monitoring data obtained as part of Sirius' site investigation was used in conjunction with the information gathered by WYG in 2016 to obtain a level of understanding of the site hydrogeology. This information was used to inform further DQRA.

2.1.11. Shallow aquifer

Site investigations encountered natural drift deposits comprising a clayey gravelly sand or sandy gravelly clay with local areas of sandy silts and sands. These strata were interpreted as Alluvium, River Terrace Deposits and Glacio-fluvial Sheet Deposits, respectively, and form the primary pathway for lateral migration of groundwater in the subsurface. There are areas within the western part of the site where waste materials encroach into the upper parts of the saturated aquifer, however, within the area of the site adjacent to the river, natural materials predominate over

the full thickness of the saturated zone, and it was therefore considered that these materials that will act as the primary control on groundwater flow towards the River Faughan.

To the east of Mobuoy Road within the main waste disposal area (zones 1, 2 & 3) there is a greater thickness of waste material below the saturated zone. Groundwater level monitoring generally indicates that groundwater within this waste mass is in hydraulic continuity with the surrounding shallow aquifer.

2.1.12. Hydraulic Conductivity Testing

A total of 11 in-situ permeability tests were performed within boreholes which suggested a high degree of permeability. Testing noted a high degree of spatial variability within the shallow drift strata which was considered to be associated with relatively minor variability in clay content within the soils. Sirius concluded that a reasonable range for aquifer hydraulic conductivity at the site scale is in the region of approximately 3 to 5m per day.

2.1.13. Groundwater flow

Groundwater flow direction was determined to be toward the River Faughan with localised variance anticipated due to geological permeability variations. Hydraulic gradients across all phases of monitoring have been found to vary between approximately 0.0019 and 0.02.

2.2. SURFACE WATERS CHARACTERISATION & SAMPLING

2.2.1. Surface Water Pond 1 (within Source Area 1, City Industrial Waste Site)

This body of water covers an area of approximately 2.6ha. The elevation of the pond is approximately 15m AOD and is perched significantly above the level of groundwater within the underlying wastes. The base of the pond was dipped in several locations and found to be up to approximately 3.5 m deep. Based on information from adjacent boreholes, there was consequently approximately 2.5 to 3.0m of waste assumed to be present below the water surface. Chemical analysis of the water quality within this pond did not generally indicate elevated concentrations of contaminants.

2.2.2. Surface Water Pond 2 (Large Surface Water Pond within Northern part of Campsie Sands and Gravels)

This body of water covers an area of approximately 4.9Ha. The elevation of the pond surface is approximately 5.0m AOD and is perched above the level of groundwater within the underlying aquifer. The base of the pond was dipped in several locations and found to be between approximately 3.0m and 5.2m deep. Based on information from adjacent boreholes, it was concluded that there is not a significant quantity of waste material beneath this pond.

Chemical analysis of the water quality within this pond did not generally indicate significantly elevated concentrations of contaminants.

2.2.3. Surface Water Pond 3 (Surface Water Lagoon in City Industrial Waste Site)

The surface water lagoon located in the south of the former City Industrial Waste facility is a man-made and purpose-built feature of approximately 20m by 50m. The elevation of the surface water is approximately 7.0m AOD. Concentrations of potential contaminants within the lagoon were not generally detected at elevated concentrations over the monitoring period since 2015. Concentrations of ammoniacal nitrogen of up to 9.0mg/l and zinc of up to 25mg/l were detected, exceeding relevant generic thresholds. Sirius suggest likely sources are waste materials placed on hard standing leaching and being transported to the lagoon.

2.2.4. Surface Water Tributary

A surface water tributary is present which discharges into the River Faughan within the southern part of the former Campsie Sands and Gravels site. Flow and rainfall monitoring suggested it unlikely that the surface water tributary receives significant base flow from groundwater beneath the site but comprises predominantly surface water flow from both the site and the wider catchment upgradient of the site. Chemical analysis undertaken indicated the following which is of significance for future risk assessment modelling.

- Background concentrations of ammoniacal nitrogen, iron and manganese were somewhat elevated within
 the surface water tributary upstream of the site. It was considered that these concentrations are
 representative of background levels within the catchment caused by natural geological conditions and
 anthropogenic activity such as agriculture.
- Concentrations of ammoniacal nitrogen, iron and manganese increase downstream indicating that an additional component, due to inputs from the site are potentially present.
- Concentrations of contaminants of concern specifically associated with identified source areas within the
 conceptual site model (e.g., hydrocarbon components and phenolic compounds) have not been detected
 within the surface water tributary.
- Evidence from monitoring carried out by NIEA in October 2014 following a period of heavy rainfall
 identified leakage of leachate from source zone 4 directly into the stream channel. However, no significant
 adverse effects could be detected downstream or within the River Faughan. Following this observation
 NIEA installed a new trench and bund to prevent future leakage occurring.

Based on water quality monitoring results collated via the NIEA Environmental Monitoring Plan (EMP), no evidence of discharges or chemical impacts originating from the site to the tributary were recorded on any other occasion

2.2.5. Updated CSM – Potential Pollutant Linkages (PPLs) to be investigated via DQRA

Following Sirius's review the following PPLs were identified for further assessment via DQRA:

Table 2-2 - Summary of Contaminant Linkages Requiring Further Assessment by DQRA, Sirius 2017

Source Zone	Pathway	Contaminant of concern	Risk rating
Zones 1 to 3	Shallow Aquifer Transport	Metals, PAHs, TPH, sodium, chloride, ammoniacal nitrogen and phenols	High
Zone 4	Shallow Aquifer Transport	Metals, PAHs, benzene, toluene, phenols and ammoniacal nitrogen	Moderate
	Surface water (Tributary)	PAHs, manganese, ammoniacal nitrogen	Low to Moderate
Zone 6	Shallow Aquifer Transport	Metals, PAHs, TPH, BTEX, sodium, chloride, phenols, ammoniacal nitrogen, diazinon	Moderate
Zone 7	Shallow Aquifer Transport	Metals, PAHs, TPH, BTEX, sodium, chloride, ammoniacal nitrogen	Moderate
Zone BH206	Shallow Aquifer Transport	TPH and BTEX	Moderate
Whole Site	Shallow Aquifer Transport	Iron, manganese, chloride and ammoniacal nitrogen	Moderate to High
	Surface Water Tributary	Iron, manganese, chloride and ammoniacal nitrogen	Low to Moderate

Tetra Tech would note that Zone 5 has been excluded from the table above without explanation. The River Faughan was used as the principal water receptor and site-specific assessment criteria developed protective of the river were also considered to be protective of the wider shallow alluvial aquifer.

2.2.6. DQRA

RTM Level 3a assessments have been carried out for the identified contaminants of concern to establish source zone specific remediation criteria for soils, leachate and groundwater which will be protective of identified water receptors. The model was implemented using the ConSim model v.2.5, which was developed to follow the RTM process and is a probabilistic model that allows data inputs to be defined in terms of statistical probability density functions (PDFs).

Compliance criteria (target concentrations) were based on Environmental Quality Standards (assumed to be WFD NI 2011) and/or drinking water standards (DWS) where these are available, to be protective of the local surface water environment and the drinking water abstraction at Cloghole located downstream of the site. Where both criteria exist for a contaminant, then the lower of the two has been adopted for calculation.

For the purposes of the assessment a concentration of 10µg/l has been adopted for each TPH fractions. Sirius state that this is <50µg/l, which is compliant with the DW1 threshold for abstraction of drinking water with minimal treatment as defined within The Surface Waters (Abstraction for Drinking Water) (Classification) Regulations (Northern Ireland) 1996.

2.2.7. Water Balance Modelling

The model has been used to estimate relative concentrations within surface water channels and contaminant flux for the underlying shallow aquifer under existing site conditions. Calculations have been performed to derive site-specific remediation criteria that are protective of the River Faughan.

The water balance model does not consider attenuation processes such as dilution, dispersion and degradation, which are modelled within ConSim. The water balance model is therefore highly conservative when assessing source areas that are not located immediately adjacent to the receptor. On a site-wide basis, infiltration was considered to account for the great majority of aquifer flow.

Particularly within zones 1, 2 and 3, subsurface transport pathways were considered to be driven almost exclusively by infiltration with predicted infiltration rates exceeding the anticipated groundwater base flow rates. This was considered consistent with the hydrogeological appraisal of this area. Infiltration rates were therefore considered to be of primary importance in controlling contaminant migration within this area of the site. There was no significant difference between chloride concentrations in upstream and downstream samples from the tributary.

2.2.8. ConSim & RTM modelling

Sirius have applied a risk rating system to inform risk assessment outcomes as per Table 8.5 of the report.

Modelling indicated a high level of risk for iron, manganese and ammoniacal nitrogen present within source groundwater in zones 1 to 3. A potential moderate level of risk was identified associated with chromium, nickel and zinc, the more mobile hydrocarbon fractions and phenolic compounds. Risks associated with other contaminants of concern within zones 1 to 3 are low. Sirius suggest limited dilution by the upgradient aquifer and limited attenuation afforded by the predicted short travel times.

Outside of this combined source, potential moderate levels of risk from hydrocarbons and benzene were primarily associated with source zones 6, BH206 and, to a lesser extent, zone 7. Potential moderate risk from phenolic compounds were associated with source zone 6, and a potential moderate risk associated with very localised Diazinon contamination was also identified within this source zone. Potential moderate levels of risk from specific metals including chromium, nickel and zinc have also been identified within some source areas.

On a site-wide basis, moderate to high risks were reportedly associated with iron, manganese, and ammoniacal nitrogen. All were reported as present at elevated background concentrations given the environmental setting of the site and water balance modelling suggested that potential impacts to the river from the site itself are more limited.

Biodegradation

Sirius indicated that they applied worst case' values measured in the field (i.e., the longest environmental half-lives) for each of the contaminants of concern.

Sirius state that background geology and hydrochemistry indicate that there is an abundant source of respiratory substrates for anaerobic microbial biodegradation, such as manganese and iron. Elevated concentrations of dissolved iron and manganese, which would be products of contaminant biodegradation, were reported as widely present in the groundwater and particularly so in close proximity to source areas.

Sirius state that calibration of observed contaminant concentrations within downgradient wells against concentrations predicted by the modelling, even after adjusting for aquifer flow, suggests that the models overpredict the magnitude of impacts for organic substances and ammonia compared to actual conditions. It was considered likely that actual rates of biodegradation are higher than those used within the model. Site specific data on degradation characteristics would assist in future modelling.

Travel Times

Travel times for low molecular weight organic compounds (e.g., phenols, hydrocarbon fractions <EC10) to the River Faughan were predicted to be in the order of 3 to 5 years. Sirius suggest that these substances should already have reached their maximum equilibrium concentrations within the aquifer. The fact that models appear to overpredict concentrations of these substances compared with observed values confirms that the predictions are conservative.

Travel times for ammonia were in the order of 7 to 25 years depending on the source zone and distance to the river indicating that concentrations should already be close to equilibrium.

Travel times for PAHs were in the order of 30 to 200 years, varying with source and distance to the river. Travel times for metals are between approximately 200 and 23,000 years. Shortest travel times are predicted for chromium and longest for lead, which is related to the differing environmental partitioning behaviour of these substances. Arsenic and lead showed travel times that are sufficiently long (i.e., >5000 years in all cases) such that they are not considered to present a viable risk to the river.

Surface Waters Assessment

Surface water analysis did not identify any significant impacts for organics (hydrocarbons, phenolics and PAHs). Except for one occasion in October 2014, no evidence of impact to the tributary stream from site specific contaminants has been detected in surface waters. There was occasionally evidence of increasing concentrations of ammonia in the downstream surface water tributary compared to background concentrations although the trend was not sustained.

Sirius state that background concentrations of manganese, iron and ammoniacal nitrogen are present within the surface water tributary and the River Faughan because of local geological conditions and other sources such as agriculture.

2.2.9. Extreme Events

Sirius used water balance modelling to predict storm and drought risks via anticipated flux changes. The net effect of a storm event was anticipated to be a slight increase in overall contaminant flux due primarily to runoff from the area of hardstanding *via* the lagoon. However, this would be significantly offset in terms of concentration impacts to the river by increased surface water flow rates.

The net effect of a drought scenario was less easily predicted than for the storm event. However, it was considered that drought conditions would present a higher potential risk to the river than under the storm scenario. Sirius considered future 50-year climate change prediction data and concluded that the drought conditions are more likely to occur based on current projections.

2.2.10. Summary & Conclusions

Sirius conclude that several lines of evidence are available which indicate that the level of impact to the River Faughan is very low. Site boreholes external to the main identified source areas, including those located adjacent to the river and within the riverbed (hyporheic zone) did not indicate elevated concentrations of contaminants derived from within the main source areas present on the site.

Predicted contaminant fluxes for more ubiquitous compounds (ammoniacal nitrogen, iron and manganese) were reported as small in comparison with background fluxes with the river system and the risk to the River Faughan was described as low in the wider environmental context.

Concentrations and loads within some areas of the site are such that levels of impact during an extended period of drought could potentially approach Environmental Quality Standards (EQS) concentrations and so could conceivably result in short-term adverse impacts to the environmental quality of the river. Modelling demonstrated that it was very unlikely that levels of impact could be sufficient to compromise the quality of the River Faughan in terms of its suitability for drinking water abstraction at Cloghole. Even during a drought period potential inputs from site groundwater were considered limited compared to river flow. Levels of impact associated with point sources in the main areas of deposition were considered low to moderate.

2.2.11. Post DQRA CSM

The following potential unacceptable risks were identified by Sirius as potentially requiring remediation (as per Table 10.2 of the report).

Table 2-3 - Sirius Post DQRA Contaminant linkages potentially requiring remediation

Source Zone	Pathway	Contaminant of concern	Risk rating
Zones 1 to 3	Shallow Aquifer Transport	Iron, manganese, ammoniacal nitrogen	High
	Shallow Aquifer Transport	Chromium, nickel, zinc, PAHs, aliphatic EC5 to 10 hydrocarbons, aromatic EC7 to 16 hydrocarbons, phenols	Moderate

Source Zone	Pathway	Contaminant of concern	Risk rating
Zone 4	Shallow Aquifer Transport	PAHs, manganese, ammoniacal nitrogen	Moderate
	Surface water (tributary)	PAHs, manganese, ammoniacal nitrogen	Low to moderate
Zone 6	Shallow Aquifer Transport	Chromium, zinc, PAHs, aliphatic EC5-10 hydrocarbons, aromatic EC7-16 hydrocarbons, benzene, phenols, diazinon	Moderate
Zone 7	Shallow Aquifer Transport	Aliphatic EC8-10 hydrocarbons, ammoniacal nitrogen	Moderate
Zone BH206	Shallow Aquifer Transport	Aliphatic EC6-10 hydrocarbons, aromatic EC7- 16 hydrocarbons, benzene	Moderate
Whole site	Shallow Aquifer Transport	Manganese	High
	Shallow Aquifer Transport	Iron, ammoniacal nitrogen	Moderate
	Surface water (tributary)	Iron, manganese, ammoniacal nitrogen	Low to moderate

2.2.12. Remedial Options Appraisal & Strategy

Sirius outline a number of considerations without prejudice that may be relevant in the future design of the remediation works.

- Surface water drainage from the former City Industrial Waste area via the on-site lagoon was an important pathway for the transport of ammoniacal nitrogen, and potentially iron and manganese, into the surface water system. Whilst the effects of the additional contaminant load via this pathway on the River Faughan are not generally detectable downstream of the site, this linkage was assessed as being of moderate risk rating and addressing this pathway was considered to offer an "easy win" in reducing the flux of contaminants into the River Faughan.
- The highest predicted potential short-term risks to the River Faughan were from low molecular weight hydrocarbons in the vicinity of BH206. Downgradient monitoring wells did not show that the predicted levels of impact were being realised and there was currently no evidence of hydrocarbons approaching or reaching the river itself. Sirius suggested that further investigation of the aquifer conditions in this area of the site may enable an increased understanding of site-specific degradation processes to be established which could be used to refine the risk model and explore the potential for medium to long term remedial approaches such as monitored natural attenuation or enhanced bioremediation.

- Monitoring carried out by the NIEA has shown the potential for localised direct seepage of leachate from source zone 4 into the tributary during very wet periods. High stream flows during such events means that the actual level of impact is low. Some recent remedial measures have been implemented but potential direct seepages cannot realistically be assessed by DQRA, so mitigation of direct linkages should be specifically considered within the remedial options appraisal.
- Infiltration rates are critical to controlling the rate and mass of contaminant flux within the shallow aquifer and are particularly important for source zones 1-3 where upgradient aquifer flow is likely to be very limited by geological conditions.
- Surface water bodies are an important source of shallow groundwater recharge and reduce the effect of surface runoff to divert water away from the wastes. Pond 1 within source zones 1-3 is of particular significance as it contributes significantly to infiltration rates within that source area by retaining runoff and providing a medium-term buffer to sustain infiltration during dry periods.
- Remedial options should fully consider the potential effects of extreme weather events including storm and
 drought and should take account of the likely effects of medium-term climate projections, which suggest
 that more frequent extreme weather events are likely. The highest potential risk to the quality of the River
 Faughan is likely to be realised during extended periods of drought.

3. ADDITONAL SITE INVESTIGATION & MONITORING WORKS, TETRA TECH 2021/22

A Scope of Works (SoW) to inform the update of the DQRA, including the integration of the proposed A6 roads scheme was developed in the Tetra Tech Risk Assessment Review & Site Investigation Scope (September 2021). On the basis of the observations following the initial proposals (Phase 1) additional phases of investigation were carried out, (Phases 2 & 3). Site investigation location plans are included at Figure 3. Details of the site investigations including subsequent monitoring data and assessment are presented below and will be used to update the existing DQRA to be reflective of current site conditions.

3.1. SITE INVESTIGATIONS

In total 76 no. boreholes and 56 no. trial pits were progressed as part of the recent phase of site investigation and overseen by Tetra Tech between November 2021 and May 2022. The rationale for these works is presented in the Tetra Tech Site Investigation Scope (September 2021). The investigation works were aimed principally at the retrieval of relevant site data to inform the update to the existing DQRA (Sirius 2017) and inform the development of a Remedial Options Appraisal and Remediation Design. Exploratory works were also completed to inform the proposed A6 integration with respect to the characterisation of waste type and volume present where the roads scheme interacts with the site (refer to Figure 4). Trial pits were generally adopted in these areas occasionally supported by the progression of boreholes where deeper depth assessment was required. The characterisation of wastes with respect to future A6 proposals remains technically outside the scope of this report unless it's shown to have direct relevant to the DQRA, e.g. informing source zone characteristics.

3.1.1. Phase 1

The progression of 41 no. boreholes and excavation of 44 no. trial pits. Thirty-seven boreholes were progressed via cable percussive (CP) techniques to depths of c.10-15 mbgl (meters below ground level), five no. to shallower depths (<6 mbgl) via window sample percussion and trial pits excavated to typical depths of up to 4 mbgl. Five no. boreholes were progressed to and beyond rock head to inform the site's hydrogeological conditions. Groundwater monitoring and sampling comprised sampling of 94 no. wells inclusive of new and existing boreholes.

3.1.2. Phase 2

The progression of 30 no. boreholes. Boreholes were progressed to depths of c.10-15 mbgl (meters below ground level). As part of this phase of works 9 no. overwater boreholes were progressed (BH639 to BH643) in the northern lagoon at CS&G and 4 no. boreholes BH603, BH607, 608 and 609 in the north of CIW. Boreholes at CS&G typically were progressed up to 10 mbgl and at CIW to 4 mbgl. (BH603 was terminated during progression at 3 mbgl due to occurrence of significant ground gas travelling up the borehole casing and trigger personnel monitors of drilling crew). Groundwater monitoring and sampling comprised 50 no. monitoring wells from newly progressed borehole and as informed by the initial monitoring round. An additional 4 no. trial pits were excavated in the southwest of CS&G to depths up to 4 mbgl to investigate an area of suspected tarry waste.

3.1.3. Phase 3

The final phase of works included the progression of a further 5 no. cable percussion boreholes to further delineate the tarry waste deposition at lands to the north of CIW yard. An additional 8 no. trial pits were excavated in the area to the south of Zone 4. This work was necessary to help characterise the extent of waste deposition, inform the risk assessment and to assist in the characterisation of wastes which are likely to require removal ahead of the proposed A6 road scheme. Exploratory logs for all newly progressed monitoring wells are presented at Appendix 2.

3.1.4. Existing Monitoring Well Sampling

Tetra Tech have been provided with an inventory of all existing monitoring wells onsite by the Mobuoy Remediation Project Team and have placed reliance on it. Fifty-nine no. existing monitoring wells were also included in the current sampling inventory to provide a continuous and contemporary assessment of site conditions. Wells were subject to the same development procedures and sampled adopting a similar methodology to newly progressed wells.

3.1.5. Groundwater and Leachate Sampling Methodology

The Tetra Tech Risk Assessment Review & Site Investigation Scope (September 2021) sets out the recommended methodology for the retrieval and assessment of groundwater and leachate samples. All monitoring and sampling works were completed by the appointed site investigation contractor Causeway Geotech Limited (CGL) supported by independent site supervision by the Mobuoy ICT (Tetra Tech).

Samples were retrieved from monitoring wells following appropriate well development which included the removal of three well volumes or until dry a minimum of 72-hour post well completion

All existing and recently installed boreholes were monitored for the presence of groundwater on 2 no. occasions following well installations. Where sufficient groundwater was present to facilitate the collection of a representative sample following well development this was achieved via low flow sampling techniques. The optimum sampling opportunity was achieved based on stabilisation of the parameters including pH, temperature, dissolved oxygen, oxidation-reduction potential (ORP) and electrical conductivity with flow rates rate during established within the recommended range of between 0.1-0.5 litre per minute (I/min).

A second round of targeted groundwater sampling was undertaken in wells located in suspected higher risk areas as informed by the initial monitoring round test results. A copy of the low flow sampling records for sampled boreholes for the initial and later monitoring rounds are provided at Appendix 3 and 4. Field chemistry data will be used in conjunction with other suitable lines of evidence to assess aquifer assimilation capacity with regard to contaminant degradation via natural attenuation during later DQRA.

Water quality samples were submitted to an accredited laboratory for the following suites of analysis:

- Heavy metals.
- Speciated Phenols
- TPHCWG (Total Petroleum Hydrocarbon Criteria Working Group).
- MTBE and BTEX compounds.
- Speciated polycyclic aromatic hydrocarbons (PAHs).
- PCBs (polychlorinated biphenyls) (WHO (World Health Organisation) 12 Congeners).
- Volatile and semi-volatile organic compounds.
- Pesticides.
- Several Inorganic Parameters and
- MNA (monitored natural attenuation) parameters including (alkalinity, Dissolved methane, Dissolved CO₂,
 Manganese II, IV & total, iron II, III and total, Nitrate as NO3, Nitrite, sulphate, sulphide, total inorganic & organic carbon)

The selection of determinand suites was based on the reviewed data sets (principally Sirius 2017 and the NIEA's MPRT EMP data) and was subject to refinement by the Mobuoy ICT following acquisition of initial baseline monitoring data.

3.1.6. Light and Dense Non-Aqueous Phase Liquid (LNAPL/DNAPL)

All monitoring wells were assessed for the presence of LNAPL/DNAPL during the monitoring and sampling phase. NAPL was detected at one location (BH03) at a depth of 10.4-11.5 mbgl. Depth to base of the well was recorded at 11.82 mbgl. It was not possible to obtain a sample of the NAPL due to the depth and viscosity of the LNAPL; it was observed to be a low viscosity, dark brown tar like substance.

3.1.7. Surface Water Sampling

Surface water sampling has been undertaken of relevant surface water features including onsite ponds and lagoons, tributaries and the River Faughan. To ensure continuity with the MPRT's EMP (Mobuoy Project Remediation Team Environmental Monitoring Programme) surface water samples have been retrieved from similar locations (Annex D11 – Mobuoy surface water monitoring locations, presented at Figure 5 for reference). The following locations were selected for surface water sampling; SW1, SW9, SW3, SW4, SW5, SW6, SW7, SW13, SW14, SW10, pond 5, pond 4, pond 2, 3A&B and the lagoon. Recommended test suites are similar to those outlined for groundwater sampling to include additional water quality parameters calcium to inform metal bioavailability assessments.

Where EQS for metal compounds are listed as bioavailable appropriate derivation of site-specific assessment criteria has been undertaken as set out in legislation to inform risk e.g., using the Metal Bioavailability Tool where applicable. The derivation of site specific EQS for metals will assist in determination of the site's sensitivity to metal toxicity.

3.1.8. Soils Sampling

In an effort to characterise site conditions with respect to wastes present, superficial deposits and to inform risk to ground and surface water, sampling of soils during exploratory works was undertaken.

Where sufficient soils matrix was present to facilitate the retrieval of a representative soil sample this was obtained. Samples were retrieved at approximate 1m intervals or change of strata and exploratory logs provided to the Tetra Tech Investigation Supervisor for scheduling.

The scoping study recommended the excavation of 47 no. trial pits (TP601-TP647) primarily to inform waste classification for materials likely to require removal to support the future A6 road scheme integration. Soils sampling at those boreholes to be progressed within or proximal to the proposed A6 corridor has also been used to assist in the classification of these materials to inform future remedial design.

Laboratory test suites for soils are similar to those to be applied for groundwater and leachate testing and included the following determinand suites.

- Heavy metals.
- Speciated Phenols
- TPHCWG (Total Petroleum Hydrocarbon Criteria Working Group).
- MTBE and BTEX compounds.
- Speciated polycyclic aromatic hydrocarbons (PAHs).
- PCBs (polychlorinated biphenyls) (WHO (World Health Organisation) 12 Congeners).
- Volatile and semi-volatile organic compounds.
- Pesticides.
- Asbestos in soils.
- Several Inorganic Parameters and
- Waste Acceptance Criteria (WAC) testing (to inform future waste classification)

A number of samples were selected for soils leachate testing, generally where there was significant evidence (visual/olfactory) of contamination to assist in the definition of a soil source with respect to future contaminant fate and transport modelling.

3.1.9. Laboratory Protocols

The appointed Site Investigation contractor used a UKAS accredited laboratory Eurofins Chemtest Limited to analyse all environmental samples collected.

The adoption of EQS applicable at the time of writing were informed by the WFD 2015 in the first instance. This requires appropriate filtration as set out in legislation applicable to the analytes to be tested. The testing laboratory undertook appropriate filtration prior to sample analysis.

Quality Controls Sampling

Appropriate calibration of field monitoring equipment was carried out prior to commencement of sampling events. A copy of the outputs is provided at Appendix 5.

All sampling equipment was decontaminated prior to use and in a manner whereas not to introduce sample bias. Dedicated in well piping was used to prevent cross contamination between monitoring wells.

Quality Control (QC) Laboratory Testing

As stated, a UKAS accredited laboratory was appointed to undertake all analysis. A QC programme was implemented to include the retrieval of 10 no. duplicate field tests from monitoring wells and surface waters sampled following the initial monitoring event, five of which were sampled in triplicate by the NIEA's MPRT. Further details are provided at Section 6.11.

All groundwater and leachate samples were retrieved via low flow sampling where possible and supporting low flow reports are provided at Appendices 3 & 4 demonstrating effective parameter stabilisation and hence optimum sampling opportunity prior to retrieval of the sample. In some instances, the depth to water precluded the possibility of collecting samples using the low flow method. In these instances, a grab sample was retrieved via a clear plastic bailer.

3.1.10. Ground Gas Monitoring

The current phase of site investigation included additional ground gas monitoring visits to inform the existing ground gas risk assessment. These works are not considered directly relevant to the update of the DQRA unless explicitly stated.

3.1. GEOLOGY AND HYRDOGEOLOGICAL SETTING

Borehole and trial pit exploratory logs for all investigation points progressed as part of the recent phase of works are presented at Appendix 2.

3.1.11. Superficial Deposits

Historical investigations have effectively characterised the underlying drift geological sequences present across the CS&G and CIW sites. Whilst there is some variability in thickness deposits comprise glaciofluvial sheet deposits (sand and gravel), alluvial (clays, silt, sand and gravel) and river terrace deposits of similar composition. Occasional and what tended to be localised pockets of peat deposits were reported in lands to the immediate south of the CIW yard and in localised areas in the southwest of the CS&G site.

3.1.12. Solid Geology

Solid geology below the study area is recorded to comprise metamorphic psammite and schist of the Londonderry Formation. Following the recent phase of exploratory works bedrock or suspected bedrock was encountered in 7 no. boreholes and 2 no. trial pits all of which with the exception of BH636 were located in the north-western area of CIW.

Suspected bedrock was detected at shallow depths (< 0.5 mbgl) in overwater boreholes progressed in the north-eastern pond (BH607, BH608 & BH609) and also in boreholes BH601R, BH602R and BH603R with bedrock suspected at BH601R, BH602R and BH603R at c. 7mbgl. More competent bedrock was encountered at BH610 at 4.8 mbgl and described as a very weak very narrowly foliated grey Pelite.

Bedrock was encountered at BH636 in the northern CS&G area at 11.5 mbgl described as psammite.

3.1.13. Superficial Aquifer

Sirius 2017 stated 'there are areas within the western part of the site where waste materials encroach into the upper parts of the saturated aquifer, however, within the area of the site adjacent to the river, natural materials predominate over the full thickness of the saturated zone, and it was therefore considered that these materials that will act as the primary control on groundwater flow towards the River Faughan.' Recent investigations would generally support this assessment although there a number of wells progressed in close proximity to the river where standing water levels were recorded at the base of waste depositions or slightly above e.g., BH637 progressed in the northeast of CS&G reported waste to c. 5.1 mbgl and recorded a depth to groundwater at 4.37 mbgl. Similarly, BH628 progressed in the southwest of CS&G reported waste to 2.2 mbgl and recorded a standing water level of 2.14 mbgl.

Observed site conditions to the east of the Mobuoy Road on the CIW site are generally consistent with those observed previously with an increased inclusion of the waste depositions within the saturated zone. The central CIW area or former landfill does see a reduced interaction with respect to waste deposition and saturated zone although there are wastes present within the upper saturated zone also.

3.1.14. Groundwater Flow Modelling

Groundwater flow conditions have been characterised based on hydrogeological monitoring data collated following the recent phase of sampling and monitoring works. Recorded groundwater standing levels have been compensated to mAOD (meters above ordnance datum) using monitoring well surveyed height data. Groundwater flow mapping is presented at Figure 6.

Groundwater flow direction is consistent with historical assessment (WYG PRA 2016, Sirius DQRA 2017) which suggests a general westerly trend toward the River Faughan. There is a minor southerly component observed towards the southern boundary of the CIW site, towards the tributary located south and east along the eastern boundary of the south-eastern area of the CS&G site toward the tributary present along the southern boundary of this area, although the principal component is a westerly direction.

3.1.15. Surface Water Level Monitoring

Causeway Geotech Ltd installed a series of surface water loggers for the period 17/08/2022 to 21/09/2022 to inform surface water level monitoring at the river Faughan. Level loggers were installed at four locations (SW6, SW7, SW10 an SW14, refer to Figure 5) considered to be upstream midstream and downstream along the river course. Level logger data from installation locations SW6 (upstream) and SW10 (downstream) was recorded, loggers installed at locations SW7 and SW14 were lost during the monitoring period, assumed to have been dislodged by flood events. Level data was recorded every 15 seconds during deployment with c. 3300 measurements collated over the period. Logger output data is included at Appendix 19 for reference. Level data variations are generally consistent across both monitoring locations with the notable exception of a number of spikes or marked increases which correlate with flood events of varying magnitude. The most significant level increase (c. 1.75m) was recorded commencing the 3rd September, peaking on the 4th September and returning to near base level on the morning of the 5th September. Lesser level increases (c. 0.3m above base) occurred from the 9th to the 10th and 11th to the 13th September with level data outside of these events remaining broadly consistent.

3.1.16. Conductivity Testing

Table 5.1 Sirius 2017 presents conductivity values for multiple strata. In addition to this a number of variable head permeability tests have been completed in the following boreholes in accordance with the various parts of BS EN ISO 22282. The test results will be considered further with regard to contaminant fate and transport modelling within the DQRA.

Table 3-1- Permeability Test Locations

Borehole	Target Strata	Rationale	Conductivity Value (K) (m/s)
BH121	Sand	Down gradient of suspected tarry waste area zone 4	3.90E ⁻⁰⁵
BH205	Sand	CS&G, down gradient central CIW	3.85E ⁻⁰⁶
BH302	Sand & Gravel	CIW, immediately down gradient tarry waste area CIW	9.59E ⁻⁰⁷
BH610D	Bedrock	Upgradient well, CIW north. Bedrock installation to inform water balance and risk assessment	2.52E ⁻⁰⁵
BH620	Sand	CS&G main yard area, down gradient central CIW	1.22E ⁻⁰⁵
BH630	Sand	CS&G, southwest, down gradient tarry waste deposit	1.63E ⁻⁰⁵
BH633	Silty Gravelly Sand	CS&G central, area between tarry waste impact at CIW and river	2.69E ⁻⁰⁶
BH636D	Bedrock	Central north CS&G. Bedrock installation to inform water balance and risk assessment	6.99E ⁻⁰⁶
BH651	Sand	Central north CS&G. Down gradient of zones 1-3. Potential migration pathway	1.37E ⁻⁰⁵
BH670	Sand	Immediately down Gradient tarry waste CIW	2.03E ⁻⁰⁵

CONTAMINANT ASSESSMENT METHODOLOGY 3.2.

Recent data sets have been assessed against appropriate TSVs (threshold screening values) to inform future risk assessment.

3.2.1. Water

Groundwater, leachate and surface water samples have been assessed via comparison with appropriate assessment criteria in accordance with Freshwater criteria provided in the Water Framework Directive 2015 or by direct comparison with the Freshwater Environmental Quality Standards (EQS) or, UK Drinking Water Standards (DWS), WHO (World Health Organisation standards for Drinking Water) or other appropriate guidance values.

The River Faughan forms the western site boundary and a superficial sand and gravel aquifer underlies the site. Groundwater flow mapping indicates a general flow direction to the west and southwest. The River Faughan and the shallow aguifer system are considered as critical receptors and as such the appropriate Threshold Screening Values (TSVs) are considered to be EQS in the first instance. The River Faughan is used as a potable supply with an abstraction located at Cloghole approximately 2.1km downstream of the Campsie S&G site. This supply is pumped to the Northern Ireland Water, Water Treatment Works (WTW) at Carmoney. Relevant Drinking Water Standards are applied where applicable.

In respect of Petroleum Hydrocarbons for comparison WHO Values (World Health Organisation) - Petroleum Products in Drinking Water, Background document for development of WHO Guidelines for Drinking Water Quality, WHO) have been considered.

3.2.2. Bioavailability

The toxicity of metals is dependent on a range of water quality parameters in addition to water hardness, principally pH and dissolved organic carbon (DOC). The WFD Daughter Directive on priority substances (2008/105/EC) (Annex 1, Part B3) states that Member States may take account of the effect of hardness, pH or other water quality parameters that affect the bioavailability of metals. The new freshwater EQSs developed for copper, zinc and manganese, which are UK Specific Pollutants have been derived as bioavailable EQSs and take into account consideration of pH, DOC and calcium. The revised EQS for nickel (an EU priority substance under WFD) is also expressed as a bioavailable concentration. These recommendations have been transposed within local legislation (WFD, 2015⁵).

The input values for each of the three parameters can be either an individual sample result or a summary value derived from sampling results for a relevant time period, e.g., a calendar year or a 3-year time period under WFD. For both pH and calcium where a summary value is used the average is recommended but for DOC the median value is recommended⁶.

⁶ UKTAG Guide to the Metal Bioavailability Assessment Tool (M-BAT) Water Framework Directive: River and Lake, July 2014



⁵ The Water Framework Directive (Classification, Priority Substances and Shellfish Waters) Regulations (Northern Ireland) 2015

The NIEA quarterly monitoring data has been adopted for the period of approximately January 2017 to June 2021 to provide a suitable baseline data set as suggested for the determinands DOC (dissolved organic carbon) and pH. Calcium was not assessed as part of the NIEA quarterly monitoring test suite. Calcium concentrations indicative of the River Faughan recorded following the recent phase of site investigation (Tetra Tech, January 2022 (refer to Appendix 9) have been adopted. This approach is considered appropriate with reference current legislation and associated M-BAT Guidance.

Table 3-2 below presents median (DOC) and mean values for the adopted data sets at locations considered to be representative of the River Faughan (refer to Figure 5).

Table 3-2- Adopted M-BAT Parameters

Monitoring Location	DOC (dissolved organic carbon)	рН	Calcium
SW5	4.43	6.97	30
SW6	9.12	7.56	22
SW7	8.86	7.43	25
SW8	9.24	7.5	NM
SW10	6.33	7.45	21
SW13	7.83	7.57	24
SW14	8.03	7.58	25
Median / Mean	8.03	7.58	24.5

The adjusted screening criteria for the relevant metal compounds are detailed at Table 3-3 below.

Table 3-3 - MBAT adjusted Screening Values for Heavy Metals (Risk to Surface Water)

Heavy Metal	EQS* (ug/l)	PNEC**(ug/l)
Copper	1	34.94
Manganese	123	276.92
Nickel	4	14.98
Lead	1.2	9.64
Zinc	10.9	37.15

^{*} EQS (Environmental Quality Standard)

3.2.3. Human Health

The DQRA primarily assesses the risk to the water environment and recognises the resource value of the receiving watercourse alongside the potential human health impacts of the surface water abstraction downstream in the assessment of risk. The recent phase of investigations has included significant solids analysis to inform source zone characterisation with respect to future DQRA, to inform future waste characteristics (type and volume), remediation design and future materials management with respect to the A6 road scheme. An initial assessment of reported contaminant concentrations is provided here to inform risk to health, and it is anticipated this assessment

^{**} PNEC - Predicted No Effect Concentration

will be considered in more detail as part of the future remedial options appraisal and remediation design.

In order to assess the human health and environmental risks posed by potential contaminants within the underlying soils the criteria adopted should be appropriate for the proposed end use. Generic assessment criteria are contaminant concentration values used for comparison purposes to assess the risk associated with contaminant concentrations found on site and are derived using non-site-specific information.

Following the UK CLEA methodology, generic assessment criteria in the form of CIEH/LQM S4ULs (Chartered Institute of Environmental Health/Land Quality Management Suitable For Use Levels) Threshold Screening Values (TSVs) have been used to highlight contaminants present at the site which pose a risk to human health. These criteria have been developed to assess risk to health from a broad range of contaminants in soils. The S4ULs are all based on Health Criteria that represent minimal or tolerable levels of risks to health as described in the Environment Agency's SR2 guidance⁷, ensuring that the resulting assessment criteria are 'suitable for use' under planning.

The risk to construction workers is not considered under the CLEA methodology (CLR 7). It is assumed that health and safety guidelines will be adhered to mitigate/reduce such risk(s). In order to assess the soil analyses results with regard to potential human health risks, Tetra Tech have used generic screening values, referred to as Threshold Screening Values (TSVs) based on CIEH LQM S4ULs⁸.

The following land use scenarios have been assessed in the derivation of S4ULs:

- Residential with homegrown produce; (RwHP)
- Residential without homegrown produce (RwoHP).
- Allotments.
- Commercial.
- Public open spaces near residential housing (POS resi); and
- Public Parks (POS Park).

Table 1.1 of the LQM/CIEH Document on the derivation of S4ULs defines exposure assumptions for the derivation of POS resi GACs. It includes predominantly grassed areas adjacent to high density housing with a mixture of open space and covered soil with planting. It assumes that the close proximity to the place of residence will allow the tracking back of soil to the place residence to occur.

⁸ http://www.lqm.co.uk/publications/s4ul/



⁷ Human health toxicological assessment of contaminants in soil, Science Report – Final SC050021/SR2, Environment Agency January 2009

Table 1.2 of the LQM/CIEH Document on the derivation of S4ULs defines exposure assumption for the derivation of POSpark GACs. The document describes this land use as an area of open space usually owned and maintained by the local authority provided for recreational land uses. The key difference is that it is assumed that tracking back of soils into the place of residence will be negligible.

On the basis of the anticipated future master plan as known at the time of writing the site is currently not proposed for building development but instead is likely to be utilised as an open space with some public access anticipated. On this basis and in consideration of the associated relevant assumed exposure assumptions risk to health from contaminants in soil will be assessed against derived S4ULs for land use scenario POS Park GACs.

4. SOILS ASSESSMENT TETRA TECH 2022

Approximately 350 no. soil samples were selected for analysis following recent phases of exploratory works. Soil sample data from the recent phase of investigation has been compared with the S4ULs public open space – park (POSpark); GAC (generic assessment criteria). The inclusion of the solids analysis with respect to human health assessment is provided as informative in the context of the Updated DQRA but will be of greater significance regarding future remediation design.

Soil samples were analysed for a range of determinants as set out at Section 3.1.8. The results of the laboratory soil analyses from all available data are summarised in Appendix 6 in which they are compared to the relevant generic assessment criteria (GAC). Laboratory test certificates are provided at Appendix 7.

4.1. HEAVY METALS

All reported heavy metal concentrations were reported below the adopted POSpark GAC with the exception of 1 no. localised exceedance for the Lead at TP635 located in the northern extent of the CS&G site. The reported concentration of Lead in TP635 was 4,600mg/kg at 4.0mbgl, which exceeded the POSpark GAC of 1,300mg/kg. The primary exposure route for this contaminant type is vial direct contact (dermal, ingestion, inhalation of fugitive dusts) therefore at depths greater than 1m risk to health is considered negligible. Lead analysis at shallower depths (2.7 mbgl) reported significantly lower concentrations of 270 mg/kg, therefore assuming site levels are not altered significantly risk to health is considered low.

4.2. TPH, PHENOL, MTBE AND BTEX

4.2.1. TPH

Reported concentrations for speciated TPH fractions (aliphatic and aromatic) were typically reported low or negligible, or less than respective laboratory detection limits. However localised exceedances of aromatic ranges were found in the central section of CIW site (BH673, BH660, BH665, BH673) and western area of CS&G site (BH628). These exceedances are summarised below.

4.2.2. MTBE & BTEX

The reported concentrations in analysed soil samples for MTBE and BTEX were typically below the adopted POS park GAC with the exception of 3no. localised exceedances for Benzene in the central CIW (BH660 and BH671). The exceedances are detailed in the table below.

4.2.3. Phenol

All soil samples analysed for phenols, reported concentrations not in exceedance of the adopted POSpark GAC and the majority of reported concentrations were below laboratory detection limits.

Table 4-1 - Organic Concentrations > Public Open Space - Park GAC

Determinand	Adopted TSV (mg/kg)	Sample Population	Max Reported (mg/kg)	No. Samples >TSV	Sample ID (BH/TP and depth)	Reported concentration (mg/kg)
Aromatic C8- C10	7200	344	13000	2	BH673 (3.00m) BH673 (4.00m)	12000 13000
Aromatic C10- C12	9200	344	82000	5	BH628 (2.0m) BH660 (9.00m) BH665 (10.00m) BH665 (11.00m) BH673 (3.00m) BH673 (4.00m)	14000 24000 31000 20000 80000 82000
Aromatic C12- C16	10000	344	10000	5	BH628 (2.0m) BH660 (9.00m) BH665 (10.00m) BH665 (11.00m) BH673 (3.00m) BH673 (4.00m)	46000 37000 49000 30000 98000 100000
Aromatic C16- C21	7600	344	7600	5	BH628 (2.0m) BH660 (9.00m) BH665 (10.00m) BH665 (11.00m) BH673 (3.00m) BH673 (4.00m)	19000 19000 26000 16000 53000 55000
Aromatic C21- C35	7800	344	7800	5	BH628 (2.0m) BH660 (9.00m) BH665 (10.00m) BH665 (11.00m) BH673 (3.00m) BH673 (4.00m)	22000 20000 29000 16000 53000 54000
Benzene	90	314	720	3	BH660A (9.00mbgl) BH660A (10.00mbgl) BH671 (2.00mbgl)	190 720 190

All exceedances are reported at significant depth and are therefore not considered to present a significant risk to health assuming site levels are not altered significantly. Contaminant characteristics are indicative of tarry wastes detected in the area and their occurrence will require further consideration within future DQRA modelling source term definition and with respect to future remediation design e.g., classification of materials for offsite disposal and/or potential suitability for reuse assessment.

4.3. PAHS (POLYCYCLIC AROMATIC HYDROCARBONS)

Following a review of the laboratory analysis, a number of PAH compounds, including Naphthalene, Phenanthrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(123cd)pyrene, and Dibenz(a,h)anthracene, were reported above the adopted POSpark GACs for individual compounds of varying magnitude and frequency in the centre of the CIW site (BH660A, BH665, BH673, BH674, BH676, BH659, BH670, BH669, BH666), northern CIW site (BH603, and the west of the CS&G site (BH628, BH629, BH626, BH629). These are summarised in the table below.

Table 4-2 - PAHs > Public Open Space - Park GAC

Determinand	Adopted TSV (mg/kg)	Sample Population	Max Reported (mg/kg)	No. Samples >TSV	Sample ID (BH/TP and depth)	Reported concentration (mg/kg)
Naphthalene	1200	342	19000	5	BH660A (9.00m) BH660A (10.00m) BH665 (10.00m) BH673 (3.00m) BH673 (4.00m)	2600 5100 7100 19000 2000
Phenanthrene	6200	342	10000	2	BH665 (10.00m) BH673 (3.00m)	8700 10000
Benzo(a)anthracene	49	342	590	8	BH628 (2.00m) BH660A (9.00m) BH660A (10.00m) BH665 (10.00m) BH673 (3.00m) BH673 (4.00m) BH674 (3.00m) BH676 (2.00m)	63 86 230 520 590 65 60 71
Chrysene	93	342	550	3	BH660A (10.00m) BH665 (10.00m) BH673 (3.00m)	210 550
Benzo(b)fluoranthene	13	342	640	19	BH628 (2.00m) BH628 (1.00m) BH629 (2.0m) BH629 (0.8m) BH629 (1.3mbgl) BH659 (11.00m) BH660A (9.00m) BH660A (10.00m) BH665 (10.00m) BH673 (3.00m) BH673 (4.00m) BH673 (5.00m) BH603R (3.00m) BH674 (3.00m) BH674 (4.00m) BH674 (5.00m) BH676 (2.00m) BH660A (12.00m)	76 18 51 42 22 16 110 260 630 35 640 39 16 29 68 37 19 22 17
Benzo(a)pyrene	11	342	970	22	BH628 (2.00m) BH628 (1.00m) BH626 (0.50m) BH629 (2.0m) BH629 (0.8m) BH629 (1.3mbgl) BH659 (11.00m) BH660A (9.00m) BH660A (10.00m) BH665 (10.00m) BH665 (10.00m) BH670 (1.00m) BH673 (3.00m) BH673 (4.00m)	98 24 18 72 53 27 23 190 420 19 930 31 970 110

Determinand	Adopted TSV (mg/kg)	Sample Population	Max Reported (mg/kg)	No. Samples >TSV	Sample ID (BH/TP and depth)	Reported concentration (mg/kg)
					BH673 (5.00m) BH603R (3.00m) BH674 (3.0m) BH674 (4.0m) BH674 (5.0m) BH676 (2.00m) BH676 (6.00m) BH660A (12.00m)	25 44 94 55 29 37 17 25
Indeno(123cd)pyrene	150	342	510	3	BH660A (10.00m) BH665 (10.00m) BH673 (3.00m)	230 510 470
Dibenz(a,h)anthracene	1.1	342	23	19	BH628 (2.00m) BH623 (4.00m) BH623 (4.00m) BH629 (2.0m) BH629 (0.8m) TP611 (0.50m) TP612 (1.00m) BH660A (9.00m) BH660A (10.00m) BH666 (5.00m) BH667 (1.00m) BH670 (1.00m) BH673 (3.00m) BH673 (4.00m) BH674 (3.00m) BH674 (4.00m) BH676 (2.00m) BH676 (8.00m)	2.8 1.3 1.9 3.8 1.7 1.8 1.4 3.3 5.9 2.1 23 3.6 1.2 20 2.3 2.6 1.4 1.6 1.3

Similar to TPH concentrations reported PAH contaminant concentrations in soils are generally reported at significant depth and are therefore not considered to present a significant risk to health assuming site levels are not altered significantly. Contaminant characteristics are indicative of tarry wastes detected in the area of central CIW and in the southwestern area of CS&G where a shallower and lesser extent of tarry type waste were observed. Their occurrence will require further consideration within future DQRA modelling source term definition and with respect to future remediation design e.g., classification of materials for offsite disposal and/or potential suitability for reuse assessment.

A number of PAH exceedances were reported in shallower soils (<1 mbgl) at boreholes BH626 and BH629 in an area to the southwest of CS&G. Their occurrence will also require further consideration in future remedial design. Immediate risk to health is considered low as the site is not publicly accessible.

4.4. **VOCS**

All reported VOC concentrations were below the adopted POSpark with concentrations generally less than laboratory detection limits.

4.5. SVOCS

Generally, SVOC analysis reported compound concentrations less than adopted POSpark GAC with the majority of concentrations reported below laboratory detection limits. Localised exceedances of Indeno(1,2,3-cd)pyrene and Dibenzo(a,h)anthracene were reported in the central area of CIW (BH 637, BH665, BH674, BH671 and BH679) and exceedances of Dibenzo(a,h)anthracene was reported in the western section of CS&G (BH628 & BH629). These are summarised in Table 4-3 below.

Table 4-3 - SVOCs > Public Open Space - Park GAC

Determinand	Adopted TSV ⁽ mg/kg)	Sample Population	Max Reported (ug/l)	No. Samples >TSV	Sample ID (BH/TP and depth)	Reported concentration (mg/kg)
Indeno(123cd)pyrene	150	107	780	3	BH628 (2.0m) BH673 (3.0m) BH673 (4.0m)	310 690 780
Dibenz(a,h)anthracene	1.1	107	61	12	BH629 (0.8m) BH628 (1.0m) BH628 (2.0m) BH629 (2.0m) BH665 (10.0m) BH673 (3.0m) BH673 (4.0m) BH673 (5.0m) BH674 (4.0m) BH671 (2.0m) BH671 (3.0m) BH679 (6.0m)	1.3 1.9 28 2.7 12.0 61.0 28.0 2.0 1.60 6.20 5.30 1.3

The risk profile for these reported PAH compound exceedances is generally consistent with that discussed previously with respect to the future DQRA source term definition and consideration within future remediation design.

4.6. PCBS (POLYCHLORINATED BIPHENYLS)

Soil samples were typically analysed for the WHO12 PCB congeners from 81 to 189. POSPark GACs are not available for these congeners, however all reported concentrations were below the laboratory limit of detection.

4.7. INORGANICS

Soil samples were analysed for a range of inorganics, including cyanide, thiocyanate, sulphate (2:1 water soluble) The majority of reported concentrations were below laboratory limit of detection where detected did not exceed the adopted POSPark GACs.

The pH of the samples analysed generally fell within the naturally occurring range of pH 5 to pH 9 with the exception of 29 no. samples, where reported levels ranged between pH 9.1 to pH 11.1. Generally, samples were only marginally exceeding the upper neutral range value of pH 9.

4.8. ASBESTOS IN SOILS

Soil samples were screened for the presence of asbestos fibres and asbestos containing materials (ACMs) with a number of samples subject to further quantification testing following the initial screening process. Table 4-4 below presents a summary of recent test results.

Table 4-4 - Asbestos in soils assessment occurrence

Sample ID (BH/TP and depth)	Quantification (Total %)	Assessment of Risk
BH669 at 9.0mbgl (Chrysotile, free fibres)	0.001	Not considered significant risk as depths >1mbgl
BH673 at 1.0mbgl (Chrysotile, Lagging)	0.001	Not considered significant risk as depths >1mbgl
BH634 at 3.0mbgl (Chrysotile, Fibres and Clumps)	0.015	Not considered significant risk as depths >1mbgl

CIRIA's document C733⁹ has been referred to in the assessment or risk from asbestos in soils. The occurrences of asbestos in soils at a number of locations is likely be symptomatic of legacy issues associated with the former waste deposition.

Asbestos was identified at 3no. locations at depths of 1.0mbgl, 3.0mbgl and 9.0mbgl and as no asbestos was identified at shallow depth (< 1mbgl) the risked posed to human health is considered low. The total quantification was reported as <0.001% at 2 no. locations (1.0mbgl and 9.0mbgl) and 0.015% at 1no. location (0.30mbgl). There is currently no GAC for the presence of free fibre asbestos in soils although failure to detect fibres above LOD (<0.001%) using the PCOM (Phase Contrast Optical Microscopy) method is considered a relatively low risk however, the presence of fibre in the soil does remain. A total quantification of 0.015% was reported in BH634 at 3.0mbgl, however, given the depth of the sample the risk posed is considered low. BH669 and BH673 are located in central CIW in the area of tarry waste deposition and BH634 is located to the west of central CS&G. On the basis of the depth encountered and quantification current risk to health is considered low. These results will require further consideration during remediation design to ensure future risk to health is appropriately mitigated.

⁹ CIRIA C733 Asbestos in soil and made ground: a guide to understanding and managing risks



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4.9. SUMMARY OF SOILS ANALYSIS 2022

Following an assessment of recent soils data captured during the most recent intrusive site investigation, soil contaminant concentrations were generally not reported above GAC assuming a future land use scenario consistent with the assumptions applicable to a POSpark GAC land use. As discussed, a number of localised contaminant concentrations in soils were identified in both CIW and in the CS&G site. These exceedances will be considered further during remediation design to ensure final site levels and reuse of site won soils to do present a risk to health of future site users.

Soils data will be considered further where applicable to inform the definition of source areas with respect to risk to the water environment and the subsequent development of the DQRA, however risk to health from contaminants in soils remains outside the scope of the current DQRA update.

5. LEACHATE ASSESSMENT

A total of 13 no. soil leachate samples were retrieved during the initial sampling round with a further 35 no. retrieved during the second sampling round. The secondary round of sampling was principally informed by contaminant concentrations reported during the initial monitoring round, onsite observations and a review of historical monitoring data. Samples were submitted to a UKAS accredited laboratory for analysis and selected analysis informed by existing site data and observations during exploratory works.

The screening summary sheet presented at Appendix 8 details the selected quality standards used to assess each given contaminant and summarises the associated laboratory data, highlighting any results that exceed the relevant screening criteria. Supporting laboratory test certificates are included at Appendix 7.

For the purposes of reporting the site has been considered as CIW (City Industrial Waste) and CS&G (Campsie Sand and Gravel) - refer to Figure 2.

The results from the soil leachate samples have been assessed adopting the same criteria as that adopted for groundwater and surface water.

5.1. HEAVY METALS

5.1.1. Round 1 - City Industrial Waste

Following a review of round 1 monitoring data, a number of heavy metals were reported above the adopted TSVs in monitoring wells BH644, BH645 BH646 which are located close to the northern boundary of CIW area. These exceedances are summarised in the table below.

Table 5-1 - Heavy metals >TSVs, Soils Leachate Test-Round 1 CIW

Determinand	Adopted TSV (see note 1)	Sample Population	Max Reported (ug/l)	No. Samples >TSV	Sample ID (BH/TP and depth)	Reported concentration (ug/l)
Manganese	276.92 (Note 2)	10	1200	3	BH645 at 0.7mbgl BH645 at 3.0mbgl BH646 at 2.0mbgl	1200 380 480
Molybdenum	70	10	92	1	BH644 at 5.0mbgl	92
Nickel	14.98 ^(Note 2)	10	52	6	BH645 at 0.7mbgl BH645 at 3.0mbgl BH645 at 9.0mbgl BH646 at 7.0mbgl BH644 at 5.0mbgl BH644 at 8.0mbgl	24 24 15 23 15 52
Antimony	5	10	27	2	BH644 at 5.0mbgl BH644 at 8.0mbgl	27 7.6

Note 1 - Adopted TSVs are EQS unless otherwise stated.

Note 2- MBAT PNEC calculated value

AA - Annual Average

MAC - Maximum allowable concentration

Following a review of the heavy metal concentrations reported following monitoring round 1, nickel represents the most frequent exceedance relevant to the adopted TSV of 14.98ug/l (MBAT PNEC (Metal Bioavailability Predicted No Effect Concentration) calculated value) with exceedances reported in 6no. samples at 3no. locations. Reported nickel exceedances ranged from 15ug/l in BH644 at 5.0mbgl to 52ug/l in BH644 at 8.0mbgl.

Lesser exceedance frequencies were reported for determinand manganese, with 3no. exceedances identified at 2no. locations, BH645 and BH646. Reported manganese concentrations at these locations exceeded the TSV of 276.92ug/l (MBAT PNEC calculated value) ranging from 480ug/l in BH646 to 1200ug/l in BH645.

Determinands molybdenum and antimony reported lesser exceedance frequencies and of a reduced magnitude. A singular exceedance of molybdenum was reported in BH644, with concentration of 92ug/l being reported, which marginally exceeded the TSV of 70ug/l.

In BH644, 2 samples reported concentrations of antimony 7.6ug/l and 27ugl which exceeded the TSV of 5ug/l.

5.1.2. Round 1 - Campsie Sand and Gravel

Following a review of round 1 monitoring data, soil leachate concentrations of Manganese, Nickel and Antimony were reported at concentrations above the adopted TSVs in monitoring well BH635, located in the central CS&G area. Exceedances are summarised in the table below.

Table 5-2 - Heavy metals >TSVs, Soils Leachate Test - Round 1 CS&G

Determinand	Adopted TSV (see note 1) (ug/I)	Sample Population	Max Reported (ug/l)	No. Samples >TSV	Sample ID (BH/TP and depth)	Reported concentration (ug/l)
Manganese	276.92 (Note 2)	3	1100	1	BH635 at 2.0mbgl	1100
Nickel	14.98 ^(Note 2)	3	110	1	BH635 at 2.0mbgl	110
Antimony	5	3	15	2	BH635 at 4.0mbgl BH635 at 5.0mbgl	15 5.9

Note 1 - Adopted TSVs are EQS unless otherwise stated.

Note 2- MBAT PNEC calculated value

AA - Annual Average

MAC - Maximum allowable concentration

Antimony represented the most frequent exceedance relevant to the adopted TSVs with 2no. exceedances being identified in BH635. The reported concentrations were 5.9ug/l to 15ug/l at BH635 compared to the TSV of 5ug/l.

Reported concentrations of manganese and nickel exceeded the adopted TSV in 1no. sample only. The reported manganese concentration (1100ug/l) exceeded the TSV of 276.92ug/l by two orders of magnitude.

The reported concentration of Nickel in BH635 was 110ug/l, which exceeded the TSV of 14.98ug/l.

5.1.3. Round 2 - City Industrial Waste

Soil leachate samples obtained during the second round of monitoring were from the CIW area and were informed principally by the characterisation of the tarry waste deposits encountered during Phase 2 delineation works. Following a review of round 2 monitoring data, a number of heavy metals were reported above the adopted TSVs of varying magnitude and frequency in boreholes located in the central CIW area and close to the northern boundary of the CIW area. These are summarised in the table below.

Table 5-3 - Heavy metals >TSVs, Soils Leachate - Round 2 CIW

Determinand	Adopted TSV (see note 1)	Sample Population	Max Reported (ug/l)	No. Samples >TSV	Sample ID (BH/TP and depth)	Reported concentration (ug/l)
Copper	34.94 (Note 2)	35	66	1	BH667 at 11mbgl	66
Manganese	276.92 ^(Note 2)	35	860	7	BH660A at 10mbgl BH673 at 5.0mbgl BH601R at 1.0mbgl BH667 at 13mbgl BH678 at 7.0mbgl BH677 at 6.0mbgl BH675 at 4.0mbgl	330 350 420 380 330 530 860
Molybdenum	70	35	81	2	BH659 at 10mbgl BH665 at 9.0mbgl	81 78
Nickel	14.98 ^(Note 2)	35	160	7	BH665 at 9.0mbgl BH665 at 4.0mbgl BH673 at 4.0mbgl BH601R at 1.0mbgl BH602R at 4.0mbgl BH667 at 11.0mbgl BH675 at 4.0mbgl	16 19 21 46 160 51 62
Antimony	5	35	75	16	BH660 at 9.0mbgl BH660A at 9.0mbgl BH660A at 10.mbgl BH659 at 10.mbgl BH665 at 9.0mbgl BH665 at 4.0mbgl BH666 at 11mbgl BH666 at 13mbgl	7.4 21 10 15.0 19.0 9 23 75

Determinand	Adopted TSV (see note 1)	Sample Population	Max Reported (ug/l)	No. Samples >TSV	Sample ID (BH/TP and depth)	Reported concentration (ug/l)
					BH669 at 10mbgl BH673 at 4.0mbgl BH601R at 1.0mbgl BH601R at 4mbgl BH667 at 11mbgl BH678 at 7.0mbgl BH677 at 9.0mbgl BH675 at 4.0mbgl	21.0 6.5 7.3 13 17 7.8 6.0
Zinc	37.15 ^(Note 2)	35	120	2	BH660A at 9.0mbgl BH673 at 4.0mbgl	120 64
Chromium VI	3.4 (AA)	35	11	4	BH659 at 11mbgl BH669 at 13.5mbgl BH667 at 11mbgl BH675 at 4.0mbgl	11 6 4.2 3.7

Note 1 - Adopted TSVs are EQS unless otherwise stated.

Note 2- MBAT PNEC calculated value

AA - Annual Average

MAC - Maximum allowable concentration

Following a review of the heavy metal concentrations reported following monitoring round 2, antimony represented the most frequent exceedance of adopted TSVs, with a total of 16no. exceedance being reported. Reported antimony concentrations ranged between 6ug/l at BH677 to 75ug/l at BH666 compared to the TSV of 5ug/l. All exceedances were reported within the central CIW area, with the exception of BH601R located close to the northern boundary. It is of note that antimony was not observed above the adopted TSV in groundwater and leachate samples tested following rounds 1 and 2 sampling events.

Lesser exceedance frequencies were reported for determinands manganese and nickel and chromium VI.

Reported concentrations of manganese exceeded the adopted TSV of 276.92ug/l in samples obtained from 7no. locations. Manganese concentrations ranged from 330ug/l (BH660A and BH678) to 860ug/l (BH675). All exceedances were reported within the central CIW area, with the exception of BH601R located close to the northern boundary.

Reported nickel concentrations were in exceedance of the TSV (14.98ug/l) in 7no. samples (from 6no. locations) and ranged from 16ug/l (BH665) to 160ug/l (BH602R). The maximum reported concentration for nickel (160 ug/l) was reported for at BH602R located close to the northern boundary of the CIW area. All exceedances were reported within the central CIW area, with the exception of BH601R and BH602R located close to the northern boundary.

Reported concentrations of Chromium VI exceeded the adopted TSV at 4no. locations with reported concentrations ranging from 3.7ug/l to 11ug/l compared to the TSV of 3.4ug/l. A maximum concentration of 11ug/l was recorded at BH659, located, in the central area of the CIW area. All exceedances were identified within the central CIW area.

The remainder of metals exceedances were generally less frequently exceeding the TSV and these included Copper, Zinc and Molybdenum.

Reported concentrations of copper marginally exceeded the adopted TSV of 34.94 (MBAT PNEC calculated value) at one location, BH667 located in the central area of the CIW area. The reported copper concentration was 66ug/l.

Reported Molybdenum concentrations exceeded the TSV at two locations, BH659 and BH665, both located within the central CIW area. Reported concentrations were 81ug/l and 78ug/l which marginally exceed the TSV of 70ug/l.

Reported concentrations of zinc exceeded the adopted TSV at two locations, BH660A and BH673, both located in the central area of the CIW area. The reported concentrations were reported as 120ug/l and 64ug/l respectively which exceeded the TSV of 37.15 9 (MBAT PNES calculated value).

5.1.4. PhenoIs

Reported phenol concentrations for samples obtained from the CIW and CS&G areas were generally not detected in excess of the laboratory detection limit and where detected did not exceed the adopted TSVs following both monitoring rounds.

5.2. TPHCWG & BTEX

5.2.1. Round 1 - City Industrial Waste (CIW)

No exceedances of the adopted TSVs were reported for the aliphatic compounds, BTEX compounds or MTBE in samples obtained from the CIW site with compound concentrations typically reported less than LoD (laboratory limit of detection). A total of 3 no. fractional exceedances were reported for the aromatic ranges, these are summarised at the table below.

Table 5-4 - TPHCWG Fractions, BTEX Compounds and MTBE >TSVs, Soils Leachate Test - Round 1 CIW

Determinand	Adopted TSV ⁽ ug/l)	Sample Population	Max Reported (ug/l)	No. Samples >TSV	Sample ID (BH/TP and depth)	Reported concentration (ug/l)
Aromatic C10- C12	90	10	1200	2	BH645 at 0.7mbgl BH645 at 3.0mbgl	880 1200
Aromatic C16- C21	90	10	180	1	BH645 at 0.7mbgl	180

Aromatic fractions were reported exceeding TSVs at 1no. monitoring well, BH645 (at depths 0.7m and 3.0mbgl) located close to the in the northern boundary of CIW.

5.2.2. Round 2 - Campsie Sand & Gravel (CS&G)

No exceedances of the adopted TSVs were reported for the aliphatic or aromatic compounds, BTEX compounds or MTBE in samples obtained from the CS&G site during the first round of monitoring with the majority of compound concentrations reported at concentrations less than LoD (laboratory limit of detection).

5.2.3. Round 2 - City Industrial Waste (CIW)

All soil leachate samples obtained during the second round of monitoring were from the CIW area. Following a review of round 2 monitoring data, a number of aliphatic and aromatic fractions, benzene and 1no. MTBE concentrations were reported above the adopted TSVs in boreholes located in the central CIW area and close to the northern boundary of the CIW area. These are summarised in the table below.

Table 5-5 - TPHCWG Fractions, BTEX Compounds and MTBE >TSVs, Soils Leachate Test- Round 2 CIW

Determinand	Adopted TSV ⁽ ug/l)	Sample Population	Max Reported (ug/l)	No. Samples >TSV	Sample ID (BH/TP and depth)	Reported concentration (ug/l)
Aliphatic C10- C12	300	35	480	2	BH665 at 9.0mbgl BH673 at 4.0mbgl	480 320
Aromatic C5-C7	10	35	2200	5	BH660A at 9mbgl BH660A at 10mbgl BH659 at 10mbgl BH659 at 11mbg BH665 at 9.0mbgl BH668 at 14mbgl	590 2200 160 310 3100 740
Aromatic C5-C7		35	14000	1	BH668 at 14mbgl	14000
Aromatic C8- C10	90	35	23000	9	BH660A at 9mbgl BH660A at 10mbgl BH659 at 10mbgl BH665 at 9.0mbgl BH673 at 4.0mbgl BH673 at 5.0mbgl BH603R at 3mbgl BH668 at 14mbgl BH675 at 4.0mbgl	850 5000 330 23000 18000 990 860 8900 2100
Aromatic C10- C12	90	35	42000	13	BH660A at 9mbgl BH660A at 10mbgl BH659 at 10mbgl BH659 at 11mbg BH665 at 9.0mbgl BH673 at 4.0mbgl BH673 at 5.0mbgl BH601R at 4mbgl BH603R at 3mbgl BH668 at 14mbgl	8900 23000 10000 2100 24000 42000 5800 380 6200 860

					BH676 at 6.0mbgl BH675 at 4.0mbgl BH660A at 12 mbgl	270 490 290
Aromatic C12- C16		35	19000	17	BH660A at 9mbgl BH660A at 10mbgl BH659 at 10mbgl BH659 at 11mbg BH665 at 9.0mbgl BH665 at 12mbgl BH669 at 10mbgl BH669 at 13.5mbgl BH673 at 4.0mbgl BH673 at 5mbgl BH668 at 12mbgl BH668 at 12mbgl BH668 at 14mbgl BH676 at 6.0mbgl BH676 at 8.0mbgl BH675 at 4.0mbgl BH675 at 4.0mbgl	3700 14000 5600 1800 17000 1600 99 160 19000 4300 6300 110 120 4500 4800 160 3000
Aromatic C16- C21	90	35	1500	9	BH659 at 10mbgl BH665 at 9.0mbgl BH665 at 12mbgl BH673 at 4.0mbgl BH673 at 5.0mbgl BH603R at 3mbgl BH676 at 6.0mbgl BH676 at 8.0mbgl BH660A at 12mbgl	260 720 180 1500 200 430 430 500 190
Aromatic C21- C35	90	35	220	1	BH673 at 4mbgl	220
MTBE	15	35	17	1	BH660A at 12mbgl	17
Benzene	10	35	22000	8	BH660A at 9mbgl BH660A at 10mbgl BH659 at 10mbgl BH665 at 9.0mbgl BH673 at 4.0mbgl BH673 at 5.0mbgl BH668 at 14mbgl BH660A at 12mbgl	7200 22000 13 6200 280 100 58 18
Toluene	74	35	3700	3	BH660A at 9mbgl BH660A at 10mbgl BH665 at 9.0mbgl	1200 2400 3700
Ethylbenzene	300	35	3100	1	BH665 at 9.0mbgl	3100

Aliphatic fraction C10-C12 reported concentrations for soil leachate samples in 2no. samples, BH665 (480ug/l) and BH673 (320ug/l) exceeded the adopted TSV of 300ug/l. The Total TPH at these locations were 72000 ug/l (BH665) and 82000ug/l (BH673). Both wells are located within the central CIW area.

Aromatic fractions were reported exceeding TSVs at 10no. monitoring wells with 2no. wells (BH601R and BH603R) located closed to the northern boundary of CIW and 8no. wells (BH659, BH660A, BH665, BH668, BH669, BH673, BH675 and BH676) located in the central CIW area. Total TPH in these samples ranged from 590ug/I (BH669) to 82000ug/I (BH673), both wells located within the central CIW area.

Reported benzene concentrations in exceedance of the adopted TSV was reported at 8no. locations, located within the central CIW area. Benzene concentrations ranged from 13ug/l (BH659) to 22000ug/l (BH660A).

Toluene concentrations at BH660A (1200 ug/l at 9mbgl and 2400ug/l at 10mbgl) and BH665 (3700ug/l) were also elevated relevant to the TSV.

The reported concentration of Ethylbenzene at BH665 was reported as 3100ug/l which is in exceedance of the adopted TSV.

5.3. PAHS

5.3.1. Round 1

TSVs have been derived for a number of higher risk PAH compounds including, naphthalene, anthracene, fluoranthene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene and benzo(g,h,i)perylene. PAH compound concentrations were reported as less than the laboratory detection limit (LOD) for all samples analysed round 1 in both the CIW and CS&G areas.

5.3.2. Round 2

All soil leachate samples obtained during the second round of monitoring were from the CIW area. Generally, PAH compound concentrations were not reported at concentrations above LoD with the exception of naphthalene, Anthracene and Fluoranthene as summarised in the table below.

Table 5-6 - PAHs >TSVs, Soils Leachate Test CIW- Round 2 CIW

Determinand	Adopted TSV (ug/l)	Sample Population	Max Reported (ug/l)	No. Samples >TSV	Sample ID (BH/TP and depth)	Reported concentration (ug/l)
Naphthalene	2	33	22000	17	BH660A at 9.0m BH660A at 10.0m BH659 at 10.0m BH659 at 11m BH665 at 9m BH665 at 12m BH666 at 11m BH666 at 13m BH669 at 10m BH669 at 13.5m BH673 at 5m BH673 at 5m BH603R at 3m BH603R at 3m BH602R at 4m BH668 at 12m BH668 at 12m BH668 at 14m BH667 at 11m BH667 at 8m BH676 at 8m BH660A at 12m	2700 7700 3800 2000 8800 4.7 38 38 2.1 89 22000 4000 4300 24 37 2.4 8500 2.2 11
Anthracene	0.1	33	42	20	BH660A at 9.0m BH660A at 10.0m BH659 at 10.0m BH659 at 11m BH665 at 9m BH665 at 12m Bh668 at 8.0 BH666 at 11m BH669 at 10m BH669 at 13.5m BH673 at 4m BH673 at 5m BH603R at 5m BH603R at 6m BH668 at 14m BH676 at 6.0m BH676 at 8.0m BH677 at 9.0m BH677 at 9.0m BH660A at 12m	4.5 9 31 4.1 21 8 0.33 1.6 1.1 3.4 42 8.8 18 4 24 1.6 5.8 0.5 0.52 7.9
Fluoranthene	0.0063	33	77	21	BH660A at 9.0m BH660A at 10.0m BH659 at 10.0m	2.9 6.6 42

BH659 at 11m	6.5
BH665 at 9m	26
BH665 at 12m	7.1
Bh668 at 8.0	0.7
BH666 at 11m	0.85
BH669 at 10m	3.5
BH669 at 13.5m	3.3
BH673 at 4m	77
BH673 at 5m	4.5
BH603R at 3m	10
BH603R at 6m	2.4
BH668 at 14m	17
BH676 at 6.0m	4.2
BH676 at 8.0m	9.6
BH678 at 7.0m	0.9
BH677 at 6.0m	0.12
BH677 at 9.0m	0.95
BH660A at 12m	12

Reported naphthalene concentrations exceeded the adopted TSV (2ug/l) in 17no. samples. The maximum Naphthalene concentration (220,00ug/l) was reported at BH673 located in the central CIW area. A number of wells, located within the central CIW area (including BH660A, BH659, BH673 and BH668) all reported naphthalene concentrations at least 3 orders of magnitude greater than the adopted TSV. BH603R, located close to the northern boundary of the CIW area also recorded an elevated results of 4300ug/l.

Reported concentrations of anthracene exceeded the adopted TSV (0.1ug/l) in 20no. samples. The maximum Anthracene concentration of 42ug/l was recorded at BH673 at 4m. Similarly, to naphthalene, number of wells, located within the central CIW area reported anthracene concentrations at least 1 and 2 orders of magnitude greater than the adopted TSV. BH603R, located close to the northern boundary of the CIW area also recorded an elevated results of 18ug/l.

Reported concentrations of Fluoranthene exceeded the adopted TSV of 0.0063ug/l in 21no. samples. The maximum Anthracene concentration of 77 ug/l was recorded at BH673 at 4m. Elevated concentrations of Fluoranthene were reported in a number of wells, located within the central CIW with reported concentrations between 2 and 4 orders of magnitude greater than the adopted TSV. A concentration of 10ug/l was reported at BH603R, located close to the northern boundary of the CIW area.

5.4. INORGANICS

5.4.1. Round 1

A number of inorganics were selected for analysis. Generally, reported determinand concentrations were not reported in excess of applicable TSVs where available with the exception of ammonia (free), sulphate and cyanide (total). Results are summarised in the table below.

5.4.2. City Industrial Waste (CIW)

Table 5-7 - Inorganics >TSVs, Soils Leachate Test - Round 1 CIW

Determinand	Adopted TSV (mg/l)	Sample Population	Max Reported (mg/l)	No. Samples >TSV	Sample ID (BH/TP and depth)	Reported concentration (ug/l)
Ammonia (Free)	0.3	10	6.6	8	BH610 at 2.0 BH645 at 0.7m BH645 at 1.2m BH646 at 5.0m BH646 at 7.0m BH644 at 2.0m BH644 at 5.0m BH644 at 8.0m	1.9 0.34 1.2 0.83 6.6 0.66 1.7 2.8
Sulphate	250	10	570	1	BH645 at 0.7m	490

Generally, inorganics were reported at low levels and where exceedances of adopted TSVs were reported these were infrequent and of low magnitude.

Ammonia was reported at concentrations exceeding the adopted TSV, 0.3 mg/l in 8 no. samples tested. The highest concentration of 6.6mg/l was reported in BH646 located in the northern central area of CIW. Exceeding, but lesser concentrations were also reported for wells BH610, BH644 and BH645 with reported concentrations <3.0mg/l.

A singular exceedance was reported for sulphate in BH645, located in the central CIW area. A reported concentration of 490mg/l was reported which exceeds the adopted TSV of 250mg/l/

5.4.3. Campsie Sand & Gravel (CS&G)

Table 5-8 -Inorganics >TSVs, Soils Leachate Test - Round 1 CS&G

Determinand	Adopted TSV (mg/l)	Sample Population	Max Reported (mg/l)	No. Samples >TSV	Sample ID (BH/TP and depth)	Reported concentration (ug/l)
Ammonia (Free)	0.3	3	0.48	1	Bh635 at 4.0m	0.48
Sulphate	250	3	570	1	BH635 at 2.0m	570
Cyanide (total)	0.001	3	0.070	1	BH635 at 2.0	0.070

A singular exceedance for determinands ammonia, sulphate and cyanide were reported in BH635, located in the northern CS&G site. The reported concentration of ammonia was 0.48mg/l which marginally exceeds the TSV of 0.3mg/l. The reported concentration of sulphate was 570mg/l. The reported concentrations for cyanide were 0.070mg/l. Cyanide was not reported above LoD for the remaining 2no. wells sampled during this round.

5.4.4. Round 2

A number of inorganics were selected for analysis. Generally reported determinand concentrations were not reported in excess of applicable TSVs where available with the exception of ammonia (free), nitrate and sulphate. Results are summarised in table Table 5-9, below.

Table 5-9 -Inorganics >TSVs, Soils Leachate Test - Round 2 CIW

Determinand	Adopted TSV (mg/l)	Sample Population	Max Reported (mg/l)	No. Samples >TSV	Sample ID (BH/TP and depth)	Reported concentration (ug/l)
Ammonia (Free)	0.3	35	11	25	BH660 at 9m BH660A at 9m BH660A at 10m BH659 at 10m BH665 at 9m BH665 at 4.0m BH665 at 4.0m BH666 at 11m BH666 at 13m BH669 at 10m BH669 at 10.0m BH673 at 4m BH601R at 1.0m BH601R at 4m BH603R at 6m BH603R at 6m BH602R at 4m BH668 at 12m BH668 at 14m BH668 at 11m BH667 at 11m BH667 at 1.0m BH678 at 7.0m BH678 at 7.0m BH678 at 12m BH678 at 12m BH675 at 9.0m BH679 at 8.0m	0.81 13 1.4 0.42 1.60 2.0 5 1.4 1.7 1 3 0.48 7.7 1.5 0.64 3.6 11 1.3 0.56 5.8 1.8 0.74 0.86 4.9 0.44
Nitrate	50	35	160	1	BH660A at 9.0m	160
Sulphate	250	35	1500	5	BH668 at 8.0m BH601R at 1.0m BH667 at 130m BH678 at 7.0m BH677 at 6.0m	420 420 380 1500 420

Generally, inorganics were reported at low levels and where exceedances of adopted TSVs were reported these were mostly infrequent and of low magnitude, with the exception of Ammonia.

Ammonia was reported at concentrations exceeding the adopted TSV (0.3 mg/l) in 25 no. samples tested. The highest concentration of 13mg/l was reported in BH660 located in the central CIW area. Exceedances, but to a lesser concentration were also reported for wells located in the central CIW area with reported concentrations ranging from 0.42mg/l (BH659) and 5.8mg/l (BH667).

Elevated concentrations in exceedance of the adopted TSV were also reported in the northern area of CIW, close to the northern boundary in wells BH601R, BH602R and BH603R. Reported concentrations here, ranged 0.64ug/l (BH603R) to 11 (BH602R), which exceeded the TSV.

Generally, the reported concentrations of nitrate were below the LOD and where above this, did not exceed the TSV, with the exception of 1no. location. A singular exceedance was reported for nitrate in BH660A (160 mg/l compared to the TSV of 50 mg/l).

Reported concentrations of sulphated exceeded the TSV of 250mg/l in 5no. samples located in the central CIW area (BH667m BH668, BH677 and BH678) and close to the northern boundary (BH601R). the reported concentrations ranged from 380mg/l (BH667) to 1500mg/l (BH678).

5.4.5. Summary of Soil Leachate Assessment

Recent soil leachate sampling has identified a number of exceedances for the adopted TSVs, particularly with respect to hydrocarbons and PAH compounds. These exceedances are generally consistent with observed contaminant concentrations reported in groundwater and leachate. Most elevated concentrations for these determinands are consistent with the area of tarry waste deposition in the central area of CIW and to a lesser extent similar type depositions in the southwestern area of CS&G.

6. WATERS ASSESSMENT 2020/2021

A total of 94 no. groundwater samples were retrieved during the initial sampling round with a further 50 no. retrieved during the second sampling. The selection of monitoring wells for sampling during the secondary round was principally informed by contaminant concentrations reported during the initial monitoring round. Groundwater samples were retrieved via low flow sampling techniques where there was sufficient recharge to facilitate collection of a representative sample. Where sampling via low flow technique was not possible, grab samples were retrieved via a plastic bailer.

Samples were submitted to a UKAS accredited laboratory for analysis for suites as set out at section 3.1.5. Selected analysis was informed by the previous site characterisation works (refer to Tetra Tech 'Risk Assessment Review & Site Investigation Scope Design' Project No. MOBUOY-TTE-XX-XX-RP-I-0001, September 2021) in the area.

The screening summary sheets are presented in Appendix 9 and 10 for monitoring rounds 1 and 2 respectively which details the selected water quality standards used to assess each given contaminant and summarises the associated laboratory data, highlighting any results that exceed the relevant screening criteria. Supporting laboratory test certificates are included at Appendix 11.

For the purposes of reporting the site has been considered as CIW (City Industrial Waste) and CS&G (Campsie Sand and Gravel) (refer to Figure 2).

The results from the groundwater samples have been assessed in accordance with criteria provided in the Water Framework Directive ¹⁰ or by direct comparison with the Transitional and Freshwater Environmental Quality Standards (EQS), UK Drinking Water Standards (DWS), WHO (World Health Organisation standards for Drinking Water) or other appropriate guidance values. In respect of Petroleum Hydrocarbons, the WHO Values (World Health Organisation) - Petroleum Products in Drinking Water, Background document for development of WHO Guidelines for Drinking Water Quality, WHO)) have been considered.

6.1. HEAVY METALS

6.1.1. Round 1 - City Industrial Waste (CIW)

Following a review of round 1 monitoring data, a number of heavy metals were reported above the adopted TSVs of varying magnitude and frequency in the CIW area. These are summarised in the table below.

¹⁰ The Water Framework Directive (Classification, Priority Substances and Shellfish Waters) Regulations (Northern Ireland) 2015



Table 6-1 - Heavy metals >TSVs, Groundwater and Leachate - Round 1 CIW

Determinand	Adopted TSV (see note 1) (ug/l)	Sample Population	Max Reported (ug/l)	No. Samples >TSV
Arsenic	50	25	110	1
Boron	1000 (UK DWS)	25	2800	7
Cadmium	0.09 (AA), 0.6 (MAC)	25	0.33	4
Copper	34.94 (Note 2)	25	49	1
Iron (diss)	1000	25	68000	12
Mercury	0.07	25	0.17	2
Manganese	276.92 (Note 2)	25	13000	22
Nickel	14.98 ^(Note 2)	25	310	13
Zinc	37.15 ^(Note 2)	25	190	10

Note 1 - Adopted TSVs are EQS unless otherwise stated.

Note 2- MBAT PNEC calculated value

AA - Annual Average

MAC - Maximum allowable concentration

Following a review of monitoring round 1 data, manganese, and iron represent the most frequent and elevated concentrations relevant to the adopted TSVs. Lesser concentrations and exceedance frequencies were reported for determinands nickel and zinc. The remainder of metals exceedances were generally localised and of reduced magnitude.

The maximum reported concentration for iron (68,000 ug/l) was reported for leachate well BH645 located close to the northern boundary of CIW. Leachate concentrations ranged from 16,000 ug/l (BH301) to 68,000 ug/l and iron was reported at concentrations from <5.0ug/l to 57,000 ug/l (BH303) for groundwater wells. Five no. exceedances of the TSV were reported for groundwater wells.

The maximum reported concentration for manganese (13,000 ug/l) was reported for groundwater well BH649B located in in the northeast of CIW in the area of former landfill. Leachate concentrations ranged from 360 ug/l (BH214) to 2,600 ug/l (BH645). Thirteen no. exceedances of the TSV were reported for manganese in groundwater wells.

The maximum reported concentration for nickel (310 ug/l) was reported at three leachate wells BH213, BH214 and BH215 located in the north central area of CIW. Seven no. exceedances of the TSV were reported for nickel in groundwater wells, a maximum concentration reported of 170 ug/l at BH301 located along the eastern boundary of central CIW.

The maximum reported concentration for zinc (190 ug/l) was reported for leachate well BH214 located in the north central area of CIW. Seven no. exceedances of the TSV were reported for nickel in groundwater wells, with a maximum concentration reported of 170 ug/l at BH301 located along the eastern boundary of central CIW.

6.1.2. Round 1 - Campsie Sand and Gravel (CS&G)

Following a review of round 1 monitoring data, a number of heavy metals were reported above the adopted TSVs of varying magnitude and frequency. These are summarised in the table below.

Table 6-2 - Heavy metals >TSVs, Groundwater and Leachate - Round 1 CS&G

Determinand	Adopted TSV ^(see note 1) (ug/I)	Sample Population	Max Reported (ug/l)	No. Samples >TSV
Boron	1000 (UK DWS)	54	4100	2
Cadmium	0.09 (AA), 0.6 (MAC)	54	0.83	11
Iron (diss)	1000	50	120000	34
Mercury	0.07	54	0.17	1
Manganese	276.92 (Note 2)	50	63000	48
Nickel	14.98 ^(Note 2)	54	55	13
Zinc	37.15 ^(Note 2)	54	120	13

Note 1 - Adopted TSVs are EQS unless otherwise stated.

Note 2- MBAT PNEC calculated value

AA - Annual Average

MAC - Maximum allowable concentration

Following a review of the heavy metal concentrations reported at the CS&G area following monitoring round 1, manganese, and iron represent the most frequent and elevated concentrations relevant to the adopted TSVs. Lesser concentrations and exceedance frequencies were reported for determinands cadmium, nickel and zinc and localised exceedance occurrences reported for determinands boron and mercury. The remainder of metals exceedances were generally localised and of reduced magnitude.

Iron and manganese concentrations are exceeding the TSV in groundwater and leachate wells, the maximum reported iron concentration was reported for groundwater well BH107 and the maximum manganese reported in BH06 also a groundwater well. BH107 and BH06 are located in the central area of CS&G.

Cadmium concentrations are reported at low concentrations (<1ug/l) for all samples within groundwater and leachate wells. Similarly zinc and nickel concentrations detected within groundwater and leachate wells were not reported at consistently elevated concentrations.

6.1.3. Round 2 - City Industrial Waste (CIW)

Following a review of round 2 monitoring data, a number of heavy metals were reported above the adopted TSVs of varying magnitude and frequency in the CIW area. These are summarised in the table below.

Table 6-3 - Heavy metals >TSVs, Groundwater and Leachate - Round 2 CIW

Determinand	Adopted TSV ^(see note 1) (ug/l)	Sample Population	Max Reported (ug/l)	No. Samples >TSV
Boron	1000 (UK DWS)	23	3900	5
Cadmium	0.09 (AA), 0.6 (MAC)	23	0.3	3
Iron (diss)	1000	23	53000	7
Manganese	276.92 (Note 2)	23	13000	22
Nickel	14.98 ^(Note 2)	23	170	11
Zinc	37.15 ^(Note 2)	23	390	8

Note 1 - Adopted TSVs are EQS unless otherwise stated.

Note 2- MBAT PNEC calculated value

AA - Annual Average

MAC - Maximum allowable concentration

Manganese and iron continue to represent the more elevated concentrations relevant to the adopted TSVs. Lesser concentrations but relatively frequent occurrences were reported for determinands nickel and zinc. The remainder of metals exceedances were generally localised and of reduced magnitude.

The maximum reported concentration for iron (53,000 ug/l) was reported for leachate well BH659S located centrally within CIW. Elevated concentrations relevant to the adopted TSV were reported in leachate and groundwater wells.

The maximum reported concentration for manganese (13,000 ug/l) was reported for groundwater well BH649 located in in the northeast of CIW in the area of former landfill. Elevated concentrations continue to be observed in groundwater and leachate wells.

The maximum reported concentration for nickel (170 ug/l) was reported at leachate well BH214 located in the north central area of CIW. Elevated concentrations continue to be observed in groundwater and leachate wells. The maximum reported concentration for zinc (390 ug/l) was reported for groundwater well BH673 located in the central area of CIW.

6.1.4. Round 2 - Campsie Sand and Gravel (CS&G)

Following a review of round 2 monitoring data, a number of heavy metals were reported above the adopted TSVs of varying magnitude. These are summarised in the table below.

Table 6-4 - Heavy metals >TSVs, Groundwater and Leachate - Round 2 CS&G

Determinand	Adopted TSV ^(see note 1) (ug/I)	Sample Population	Max Reported (ug/l)	No. Samples >TSV
Boron	1000 (UK DWS)	12	1200	3
Cadmium	0.09 (AA), 0.6 (MAC)	12	0.15	1
Iron (diss)	1000	12	62000	10
Manganese	276.92 (Note 2)	12	17000	12
Nickel	14.98 ^(Note 2)	12	47	6
Zinc	37.15 ^(Note 2)	12	1800	7

Note 1 - Adopted TSVs are EQS unless otherwise stated.

Note 2- MBAT PNEC calculated value

AA - Annual Average

MAC - Maximum allowable concentration

Test results remain generally consistent with those observed in round 1 with manganese, and iron representing the most frequent and elevated concentrations relevant to the adopted TSVs. Lesser concentrations and exceedance frequencies were reported for determinands cadmium, boron and nickel. A maximum localised elevated concentration was reported for zinc at the groundwater /leachate well at BH656.

6.2. PHENOLS

6.2.1. Round 1 - City Industrial Waste (CIW)

Reported phenol concentrations were generally not detected in excess of the laboratory detection limit and where detected did not exceed the adopted TSVs.

6.2.2. Round 1 - Campsie Sand and Gravel (CS&G)

Reported phenol concentrations were generally not detected in excess of the laboratory detection limit and where detected did not exceed the adopted TSVs.

6.2.3. Round 2 - City Industrial Waste (CIW)

Reported phenol concentrations were generally not detected in excess of the laboratory detection limit and where detected did not exceed the adopted TSVs.

6.2.4. Round 2 - Campsie Sand and Gravel (CS&G)

Reported phenol concentrations were generally not detected in excess of the laboratory detection limit and where detected did not exceed the adopted TSVs.

6.3. TPHCWG INCLUDING MTBE & BTEX

6.3.1. Round 1 - City Industrial Waste (CIW)

In the absence of groundwater or surface water EQS for TPHCWG compounds reported compound concentrations were compared against WHO Drinking Water standards in the first instance. TPH fractional occurrences will be considered further where applicable with respect to risk to environmental receptors as part of the DQRA.

No exceedances of the adopted TSVs were reported for the aliphatic compounds tested with compound concentrations typically reported at concentrations less than LoD (laboratory limit of detection). A total of 6 no. fractional exceedances were reported for the aromatic ranges, these are summarised at the table below.

Table 6-5 - TPHCWG Fractions >TSVs, Groundwater and Leachate- Round 1 CIW

Determinand	Adopted TSV (ug/l)	Sample Population	Max Reported (ug/l)	No. Samples >TSV
Aromatic C5-C7	10	29	120	1
Aromatic C10-C12	90	29	830	3
Aromatic C12-C16	90	29	120	2
MTBE	15	27	27	1
Benzene	10	27	5400	3
Toluene	74	27	140	3

Aromatic fractions were reported exceeding TSVs at three monitoring wells, BH214 (leachate well, Total TPH 360 ug/l), BH405 (groundwater well, Total TPH 1300 ug/l) and BH610D (groundwater well Total TPH 450 ug/l). BH610D is located in the north-eastern area of CIW up hydraulic gradient of the main area of deposition. The well response zone is within bedrock. The highest Total TPH was reported for BH405 located in the central area of CIW close to the western boundary.

Reported benzene concentrations are considered to be significantly elevated at BH303 (5400 ug/l) and BH405 (1400 ug/l), both of which are groundwater wells located adjacent to central western boundary of CIW. The toluene concentration at BH405 (140 ug/l) is also elevated relevant to the TSV. Lesser and localised BTEX concentrations were reported at BH213, BH215, BH610D and BH645.

6.3.2. Round 1 - Campsie Sand and Gravel (CS&G)

No exceedances of the adopted TSVs were reported for the aliphatic compounds tested with compound concentrations typically reported at concentrations less than LoD (laboratory limit of detection). A total of 5 no. fractional exceedances were reported for the aromatic ranges, these are summarised at the table below.

Table 6-6 - TPHCWG Fractions >TSVs, Groundwater and Leachate- Round 1 CS&G

Determinand	Adopted TSV (ug/l)	Sample Population	Max Reported (ug/l)	No. Samples >TSV
Aromatic C5-C7	10	60	330	1
Aromatic C7-C8	700	60	790	1
Aromatic C10-C12	90	60	3700	5
Aromatic C12-C16	90	60	730	3
Total TPH	10	60	4800	3
Benzene	10	60	6400	7
Toluene	74	60	460	2

Elevated TPH and BTEX concentrations were generally localised to BH402 (groundwater well), BH402S (leachate well) and BH404 (groundwater well) with lesser localised exceedances reported at BH625 (leachate) and BH626 (groundwater well). BH402 and BH404 are located in the central area of CS&G. BH625 and BH626 are located in the southern area of CS&G.

6.3.3. Round 2 - City Industrial Waste (CIW)

No exceedances of the adopted TSVs were reported for the aliphatic compounds tested with compound concentrations typically reported at concentrations less than LoD (laboratory limit of detection). A number of exceedances were reported for the aromatic ranges. These are summarised at the table below.

Table 6-7 - TPHCWG Fractions >TSVs, Groundwater and Leachate- Round 2 CIW

Determinand	Adopted TSV (ug/l)	Sample Population	Max Reported (ug/l)	No. Samples >TSV
Aromatic C5-C7	10	30	750	3
Aromatic C8-C10	300	30	6400	5
Aromatic C10-C12	90	30	5500	11
Aromatic C12-C16	90	30	4500	9
Aromatic C16-C21	90	30	220	3
Aromatic C21-C35	90	30	94	1
Benzene	10	30	9700	6
Toluene	74	30	1000	3
Ethylbenzene	300	30	1400	1

The more elevated aliphatic concentrations are present in wells BH673, BH669, BH660A, BH659D&S which are all located proximal to each another in the area to the immediate north of the CIW yard or central CIW. All are groundwater wells with the exception of BH659S (total TPH 360 ug/l, deeper groundwater installation, BH659D total TPH 1800 ug/l). This is an area characterised by tarry waste depositions at depth which is likely to be the source of the occurrences observed. Lower and less significant concentrations were reported for leachate well BH214, total TPH 1200 ug/l.

BTEX compounds (predominantly benzene, toluene and ethylbenzene) adopt a similar pattern to the aromatic fractions with the most significant concentrations reported in those groundwater wells monitored within the area of encountered tarry wastes. The maximum benzene concentration of 9700 ug/l was reported at BH303 a groundwater well located to the immediate west of the area of tarry waste deposition in central CIW. Benzene concentrations were most elevated at BH669 (6700 ug/l), BH660A (1100 ug/l), BH659D (950 ug/l), BH665 (800 ug/l) and BH670 (780 ug/l) all located within the central CIW area of tarry wastes occurrence.

The maximum toluene concentration was also reported for monitoring well BH303 although exceedances were less frequent and of reduced magnitude compared to benzene concentrations. A similar pattern is evident for ethylbenzene with the maximum concentration reported at BH303 and less frequent and reduced magnitude concentrations reported.

6.3.4. Round 2 - Campsie Sand and Gravel (CS&G)

No exceedances of the adopted TSVs were reported for the aliphatic compounds tested with compound concentrations typically reported at concentrations less than LoD (laboratory limit of detection). A total of 8 no. wells reported fractional exceedances in the aromatic ranges in addition to elevated BTEX compounds (benzene, toluene and ethylbenzene), these are summarised at the table below.

Table 6-8 -TPHCWG Fractions >TSVs, Groundwater and Leachate - Round 2 CS&G

Determinand	Adopted TSV (ug/l)	Sample Population	Max Reported (ug/l)	No. Samples >TSV
Aromatic C5-C7	10	24	160	4
Aromatic C10-C12	90	24	560	6
Aromatic C12-C16	90	24	340	2
Aromatic C16-C21	90	24	100	1
Benzene	10	23	13000	6
Toluene	74	23	790	2
Ethylbenzene	300	23	1700	3

Elevated benzene concentrations were reported at BH404 (3000 ug/l, groundwater well), BH410 (3,400 ug/l, groundwater well), BH402D (9,000 ug/l, groundwater well) and BH629 (13,000 ug/l, groundwater well) with lesser but not insignificant concentrations reported at BH626 (360 ug/l groundwater well). BH629 is located in the southwest of CS&G, where there is evidence of tarry waste deposition noted within made ground to a depth of 2.6 mbgl. BH626 is also located in this area c.80m to the south of BH626. No evidence of significant contamination was reported at this location with limited made ground to 0.6m underlain by sand. Monitoring wells BH404, BH402 and BH410 are all located centrally within CS&G with BH410 western most, close to the western boundary and BH404 to the east of central CS&G. Elevated toluene concentrations were reported in three of the referred to monitoring wells, BH404 (790 ug/l), BH402D (1100 ug/l), BH629 (620 ug/l) with a marginal exceedance reported at BH661 (79 ug/l). Elevated ethylbenzene concentrations were detected at similar locations, BH404 (750ug/l), BH626 (1700ug/l) and BH629 (1600 ug/l).

6.4. PCBS (POLYCHLORINATED BIPHENYLS)

6.4.1. Round 1 - City Industrial Waste (CIW)

Groundwater samples were analysed for the WHO12 PCB congeners from 77 to 189. Statutory TSVs are not available for these congeners. The UK Environment Agency¹¹ does not consider the WHO12 group of PCBs to be carcinogens. Four no. samples reported contaminant concentrations less than laboratory detection limits for the 12 congeners tested.

¹¹ Environment Agency, 'Soil Guideline Values for dioxins, furans and dioxin-like PCBs in soil', Science Report SC050021/Dioxins SGV, 2009; http://www.environment-agency.gov.uk/static/documents/Research/SCHO0909BQYQ-e-e.pdf



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6.4.2. Round 1 - Campsie Sand & Gravel (CS&G)

One sample reported contaminant concentrations less than laboratory detection limits for the 12 congeners tested.

6.4.3. Round 2 - City Industrial Waste (CIW)

PCB congeners were not reported above laboratory for all samples tested. Additional PCB testing was generally targeted to those newly installed delineation wells not subject to sampling during monitoring round 1.

6.4.4. Round 2 - Campsie Sand & Gravel (CS&G)

PCB congener testing was not scheduled for round 2 testing due to their reported absence following round 1 sampling.

6.5. PAHS

6.5.1. Round 1 - City Industrial Waste (CIW)

TSVs have been derived for a number of higher risk PAH compounds including, naphthalene, anthracene, fluoranthene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene and benzo(g,h,i)perylene. Generally, PAH compound concentrations were not reported at concentrations above LoD with the exception of naphthalene as summarised in the table below as summarised in the table below.

Table 6-9 - PAHs >TSVs, Groundwater and Leachate CIW- Round 1 CIW

Determinand	Adopted TSV (ug/l)	Sample Population	Max Reported (ug/l)	No. Samples >TSV
Naphthalene	2	29	470	3

The maximum Naphthalene concentration was reported at BH405 and the next highest 7.3 ug/l at BH406 both of which are groundwater wells located in the central western area of CIW. A lower-level concentration was reported at BH301 (3.2 ug/l) also a groundwater well located in the central eastern area of CIW.

6.5.2. Round 1 - Campsie Sand & Gravel (CS&G)

Generally, PAH compound concentrations were not reported at concentrations above LoD with the exception of naphthalene, anthracene and fluoranthene as summarised in the table below as summarised in the table below.

Table 6-10 - PAHs >TSVs, Groundwater and Leachate CS&G-Round 1 CS&G

Determinand	Adopted TSV (ug/l)	Sample Population	Max Reported (ug/l)	No. Samples >TSV
Naphthalene	2	59	470	3
Anthracene	0.1	59	2.4	4
Fluoranthene	0.0063	59	2.5	4

The maximum Naphthalene concentration was reported at BH629 in groundwater in the southeast of CS&G, with lesser concentrations reported at BH626 (30 ug/l, groundwater), at BH07 (41ug/l, groundwater) and BH625 (110 ug/l, leachate) also in the southeast. BH626, BH629 and BH07 are located in close proximity in an area of suspected historical tarry waste deposition (Entec, 1993). The recent phases of exploratory works (Tech 2021/22) did identify localised evidence of deposition characteristic of this type of waste at BH628 (1.2-2.2 mbgl). Elevated naphthalene concentrations were also reported at, BH201 (32 ug/l, groundwater) in the southern area and at BH206 (49ug/l, groundwater), centrally within CS&G.

6.5.3. Round 2 - City Industrial Waste (CIW)

PAH compound concentrations were reported at concentrations exceeding TSVs for compounds naphthalene, anthracene and fluoranthene as summarised in the table below as summarised in the table below.

Table 6-11 - PAHs >TSVs, Groundwater and Leachate CIW- Round 2 CIW

Determinand	Adopted TSV (ug/l)	Sample Population	Max Reported (ug/l)	No. Samples >TSV
Naphthalene	2	30	1500	12
Anthracene	0.1	30	2.2	4
Fluoranthene	0.0063	30	2.3	4

The maximum Naphthalene concentration was reported at BH673 with reported concentrations exceeding 1000 ug/l also reported at BH660A (1100 ug/l), BH669 (1200 ug/l) with additional elevated concentrations reported at BH303, BH665, BH659D and BH675. Those monitoring wells where most elevated naphthalene concentrations were reported are consistent with the area of tarry waste occurrence in the central CIW. Naphthalene is the primary PAH compound of concern with generally lower level and less frequent occurrences for remaining compounds Anthracene and Fluoranthene reported. Again, these compounds occurrences are consistent with monitoring wells located within or peripheral to the area of tarry waste occurrence.

6.5.4. Round 2 - Campsie Sand & Gravel (CS&G)

Generally, PAH compound concentrations were not reported at concentrations above TSVs with the exception of naphthalene as summarised in the table below.

Table 6-12 - PAHs >TSVs, Groundwater and Leachate CIW- Round 2 CS&G

Determinand	Adopted TSV (ug/l)	Sample Population	Max Reported (ug/l)	No. Samples >TSV
Naphthalene	2	19	130	7

The maximum Naphthalene concentration was reported at BH626 and the next highest 89 ug/l at BH410. Elevated concentrations, 33ug/l and 61 ug/l were reported for monitoring wells BH625 (leachate well) and BH663B (groundwater well) respectively. All locations are located in the southwest of CS&G.

6.6. **VOCS**

6.6.1. Round 1 - City Industrial Waste (CIW)

Groundwater samples were analysed for a suite of VOC compounds. BTEX compounds benzene and toluene concentrations are consistently reported exceeding relevant TSVs at BH303 and BH405. Hydrocarbon derivatives are also reported for compounds 1,2-Dichloroethane, (BH303, 22 ug/l) and BH405 (80 ug/l) compared to the TSV of 10 ug/l. A marginal exceedance of the TSV (UK DWS) was reported for the determinand styrene (39 ug/l, TSV 20 ug/l).

6.6.2. Round 1 - Campsie Sand & Gravel (CS&G)

VOC compounds concentrations were generally reported at concentrations less than LoD with the exception of BH629 groundwater well which reported compounds toluene (410 ug/l, TSV 74 ug/l), Ethylbenzene (430 ug/l, TSV 300 ug/l) and styrene (20 ug/l, TSV (UK DWS) 120 ug/l) in excess of respective TSVs. Low level benzene concentrations were reported at groundwater well BH626 at 63 ug/l (TSV, 10ug/l).

6.6.3. Round 2 - City Industrial Waste (CIW)

Groundwater samples were analysed for a suite of VOC compounds. With the exception of the BTEX compounds described previously no significant concentrations were reported relevant to available TSVs with the exception of styrene concentrations reported at BH665 which as stated previously is located within the area of tarry waste occurrence within the central CIW area.

6.6.4. Round 2 - Campsie Sand & Gravel (CS&G)

Three no. groundwater samples were analysed for VOCs following round 2 sampling. Elevated benzene and toluene were detected at BH663B. VOC compounds were generally not detected above laboratory LoD and where present did not exceed adopted TSVs where available.

6.7. SVOCS

6.7.1. Round 1 - City Industrial Waste (CIW)

With the exception of the naphthalene compounds described previously no significant concentrations were reported relevant to available TSVs. Naphthalene has been reported at 340 ug/l at BH405 and 5.1 ug/l at BH406.

6.7.2. Round 1 - Campsie Sand & Gravel (CS&G)

SVOC compounds have generally been reported as less than LoD or less than respective TSVs where available with the exception of PAH compounds Naphthalene, Anthracene, and Fluoranthene. Exceedances are generally consistent with those described at previously with maximum concentrations observed at BH629 and lesser concentrations and BH626. Lower-level concentrations were reported for the determinand fluoranthene at BH630, groundwater well (0.29 ug/l) and BH654S, leachate well (0.29 ug/l) exceeding the TSV of 0.0063 ug/l.

6.7.3. Round 2 - City Industrial Waste (CIW)

SVOC compounds have generally been reported as less than LoD or less than respective TSVs where available with the exception of PAH compounds Naphthalene, Anthracene, and Fluoranthene which were reported above respective TSVs at monitoring wells consistent with that reported at previously. Naphthalene remains the principal contaminant of concern with the most significant concentrations reported at BH673 (2,300 ug/l), BH669 (2000 ug/l) and BH660A (2000 ug/l) all of which are groundwater wells located in the area of tarry waste occurrences in central CIW.

Updated DQRA

6.7.4. Round 2 - Campsie Sand & Gravel (CS&G)

SVOC compounds have generally been reported as less than LoD or less than respective TSVs where available with the exception of PAH compounds Naphthalene, Anthracene, and Fluoranthene which were reported above respective TSVs at monitoring well BH663B. SVOC compounds were generally not detected above laboratory LoD and where present did not exceed adopted TSVs where available.

6.8. PESTICIDES

6.8.1. Round 1 - City Industrial Waste (CIW)

Pesticide compounds were not detected above LoD for the samples selected for analysis.

6.8.2. Round 1 - Campsie Sand & Gravel (CS&G)

Pesticide compounds were not detected above LoD for the samples selected for analysis.

6.8.3. Round 2 - City Industrial Waste (CIW)

Pesticide compounds were not analysed for monitoring during round 2.

6.8.4. Round 2 - Campsie Sand & Gravel (CS&G)

Pesticide compounds were not analysed for monitoring during round 2.

6.9. INORGANICS

6.9.1. Round 1 - City Industrial Waste (CIW)

Several inorganics were selected for analysis. Generally reported determinand concentrations were not reported in excess of applicable TSVs where available with the exception of ammonia (free), sulphate and cyanide (total). Results are summarised in the table below.

Table 6-13 - Inorganics >TSVs, Groundwater and Leachate CIW- Round 1 CIW

Determinand	Adopted TSV (mg/l)	Sample Population	Max Reported (mg/l)	No. Samples >TSV
Ammonia (Free)	0.3	25	21	12
Sulphate	250	28	340	2
Cyanide (Total) Low-Level	0.001	25	0.013	1
Chloride	250	25	1300	6

Determinand	Adopted TSV (mg/l)	Sample Population	Max Reported (mg/l)	No. Samples >TSV
Sodium	200	25	910	9

Generally, inorganics were reported at low levels and where exceedances of adopted TSVs were reported these were infrequent and of low magnitude. Ammonia was reported at concentrations exceeding the adopted TSV, 0.3 mg/l (EQS for high quality surface water, WFD2015), in 12 no. samples tested. The highest concentration was reported for the leachate well BH214 located in the northern central area of CIW. Exceeding but lesser concentrations were also reported for leachate wells BH213 (2.5 ug/l) and BH215 (2.6 ug/l) in this area.

The remainder of monitoring wells where the TSV was exceeded reported concentrations <3 mg/l with the exception of BH302 (reported at 16 mg/l, groundwater well, located to the west of northern area of CIW) and BH610D (reported at 7.4 mg/l, groundwater well, located to the east of northern area of CIW).

Low level exceedances of sulphate were reported at BH209 (260 mg/l) and BH645 (340 mg/l), both of which are leachate wells. Concentrations were generally reported at low concentration in leachate and groundwater wells sampled in the area.

A singular exceedance was reported for the determinand cyanide at groundwater well BH408 (0.013 mg/l compared to the TSV of 0.001 mg/l). Cyanide was not reported above the laboratory LoD for wells sampled in CIW as part of this monitoring round.

The maximum chloride concentration was reported at leachate well BH214 with reported concentrations generally not significantly exceeding the adopted TSV (DWS, 250 mg/l).

Similarly, generally low-level exceedances were reported for the determinand sodium TSV (DWS, 200 mg/l), with the maximum concentration reported at leachate well BH214.

6.9.2. Round 1 - Campsie Sand & Gravel (CS&G)

Generally reported determinand concentrations were not reported in excess of applicable TSVs where available with the exception of ammonia (free), sulphate, cyanide (total), chloride and sodium. Results are summarised in the table below.

Table 6-14 - Inorganics >TSVs, Groundwater and Leachate CS&G – Round 1 CS&G

Determinand	Adopted TSV (mg/l)	Sample Population	Max Reported (mg/l)	No. Samples >TSV
Ammonia (Free)	0.3	50	13	14
Sulphate	250	64	270	1

Determinand	Adopted TSV (mg/l)	Sample Population	Max Reported (mg/l)	No. Samples >TSV
Cyanide (Total) Low-Level	0.001	54	0.016	10
Chloride	250	54	980	6
Sodium	200	54	620	3

Ammonia was reported at concentrations exceeding the adopted TSV, 0.3 mg/l (EQS for high quality surface water, WFD2015), in 14 no. samples tested. The highest concentration was reported for the groundwater well BH201 located in the southern area of CS&G. A lesser but elevated concentration was also reported at leachate well BH218 (11 mg/l). Remaining TSV exceedances were typically reported at concentrations <1 mg/l with the exception of groundwater well BH633 (1.2 mg/l), leachate well BH635S (1.8 mg/l), leachate well BH636S (3.5 mg/l) and groundwater well BH654D (1.1 mg/l). Monitoring wells BH633, BH635 and BH636 are located in central and northern CS&G and BH654 is located in the southern area of CS&G.

The maximum chloride concentration was reported at groundwater well BH107 with reported concentrations generally not significantly exceeding the adopted TSV (DWS, 250 mg/l).

Similarly, generally low-level exceedances were reported for the determinand sodium TSV (DWS, 200 mg/l), with the maximum concentration reported at leachate well BH218.

Low level total cyanide concentrations are reported in groundwater and leachate concentrations at low concentrations across the area.

pH was generally reported with the neutral range pH5-pH9 with the exception of sample tested from groundwater well BH06 where pH was reported at 5.9 suggesting slightly acidic conditions. BH06 is located centrally within CS&G.

6.9.3. Round 2 - City Industrial Waste (CIW)

Generally reported determinand concentrations were not reported in excess of applicable TSVs where available with the exception of ammonia (free). Sulphate, chloride and sodium. Results are summarised in the table below.

Table 6-15 - Inorganics >TSVs, Groundwater and Leachate CIW- Round 2 CIW

Determinand	Adopted TSV (mg/l)	Sample Population	Max Reported (mg/l)	No. Samples >TSV
Ammonia (Free)	0.3	16	1.7	9
Sulphate	250	30	420	1

Determinand	Adopted TSV (mg/l)	Sample Population	Max Reported (mg/l)	No. Samples >TSV
Chloride	250	25	1400	2
Sodium	200	25	850	3

Generally, inorganics were reported at low levels and where exceedances of adopted TSVs were reported these were infrequent and of low magnitude. Ammonia was reported at concentrations exceeding the adopted TSV, 0.3 mg/l (EQS for high quality surface water, WFD2015), in 9 no. samples tested. The highest concentration was reported for the groundwater well BH647A located in the northern eastern area of CIW. Exceeding but lesser concentrations were also reported for leachate well BH215 (1.6 ug/l) with the remainder of exceedances reported at concentrations <1mg/l.

A low-level exceedance of sulphate was reported at groundwater well BH679 (420 mg/l).

The maximum chloride concentration was reported at leachate well BH214 with reported concentrations generally not significantly exceeding the adopted TSV (DWS, 250 mg/l) which is consistent with the previous sampling round.

Similarly, the maximum sodium concentration was again reported at leachate well BH214 with generally low-level exceedances reported across remaining monitoring wells.

pH was generally reported within the neutral range with the exception of the sample tested from BH647A which reported a pH of 11.3, suggesting slightly alkaline conditions.

6.9.4. Round 2 - Campsie Sand & Gravel (CS&G)

Generally reported determinand concentrations were not reported in excess of applicable TSVs where available with the exception of ammonia (free), sulphate and chloride. Results are summarised in the table below.

Table 6-16 - Inorganics >TSVs, Groundwater and Leachate CS&G - Round 2 CS&G

Determinand	Adopted TSV (mg/l)	Sample Population	Max Reported (mg/l)	No. Samples >TSV
Ammonia (Free)	0.3	14	2.2	6
Sulphate	250	24	290	1
Chloride	250	24	290	1

Generally, inorganics were reported at low levels and where exceedances of adopted TSVs were reported these were infrequent and of low magnitude. Ammonia was reported at concentrations exceeding the adopted TSV, 0.3 mg/l (EQS for good quality surface water, WFD2015), in 6 no. samples tested. The highest concentration was reported for the groundwater well BH632 located in the southern area of CS&G. Remaining TSV exceedances were

typically reported at concentrations <1 mg/l except for groundwater well BH201 (1.5 mg/l). One marginal exceedance of the adopted TSV was reported for the determinand chloride in groundwater well BH201.

A singular marginal sulphate exceedance was reported at monitoring well BH206 (290 mg/l).

pH was generally reported with the neutral range pH5-pH9.

6.10. SUMMARY OF GROUNDWATER ASSESSMENT (TETRA TECH 2022)

Recent sampling of groundwater and leachate has identified similar contaminants of concern to those identified historically (Sirius 2017, NIEA EMP quarterly monitoring data) although the targeted nature of the recent exploratory and sampling works has better informed source zone characterisation.

With respect to CIW Potential Contaminants of Concern (PCoCs) in the northern site area are characterised by heavy metals iron, manganese and to a lesser extent occurrences of nickel and zinc within leachate and groundwater wells. Low level organics (TPH) was identified in a leachate well (BH214) in the northern most area of CIW and in a deeper groundwater well (BH610D).

An area of tarry waste deposition was encountered in the central western area at depth (c.8-11 mbgl) of CIW and there is evidence of impacts to groundwater in this area characterised by tarry waste signatures which include elevated BTEX (benzene principally) and PAHs (naphthalene principally) compounds. The extent of the free phase tarry waste deposition is reasonably well delineated based on visual and olfactory observations noted during site investigations. Initial groundwater impacts would suggest these materials are acting as a source for observed PCoCs observed in monitoring wells within and peripheral to the source area and potentially at lands to the west of the Mobuoy Road.

Groundwater and leachate assessment for monitoring wells in the yard and south of CIW yard have generally not detected significant PCoC with the exception of localised elevated manganese concentrations (BH122 (groundwater well), BH209 (leachate well), BH208 (leachate well) and BH121 (groundwater well).

Inorganics testing of groundwater and leachate samples did not identify significant PCoCs with the exception of ammonia which was generally reported at concentrations <3mg/l following monitoring round 1 and <1mg/l following monitoring round 2. Higher concentrations were reported for leachate wells in the northern CIW area with the maximum reported (16 mg/l, round 1) at BH302 (groundwater well) which is located close to the western central area of CIW. An elevated concentration of ammonia (7.4 mg/l) was reported at monitoring well BH610D (groundwater) which was installed into rock in the northeast of CIW. This would suggest a potential offsite input to ammonia in groundwater given the well location and construction detail.

With respect to CS&G Potential Contaminants of Concern (PCoCs) across the site area, these are characterised by heavy metals iron and manganese and to a lesser extent occurrences of cadmium, nickel and zinc in addition to localised exceedances reported for determinands boron and mercury within leachate and groundwater wells.

Organics testing identified elevated TPH, BTEX and PAH compounds across the central CS&G area within groundwater and occasionally leachate wells. PCoCs identified included TPH aromatic fractions, benzene and naphthalene. Similar contaminant characteristics were also observed for groundwater monitoring wells in the southwest in an area of or proximal to an area of suspected tarry waste deposition (Entec Site 4, 1993). Only boreholes BH628 and BH629 identified materials consistent with tarry wastes in shallow made ground (c.1-2.6 mbgl). Subsequent delineation boreholes (BH662, BH663 and BH664) did not indicate visual or olfactory evidence of tarry waste depositions suggesting a localised occurrence in this area.

Generally, inorganics were reported at low levels and where exceedances of adopted TSVs were reported these were infrequent and of low magnitude. Ammonia was reported at concentrations exceeding the adopted TSV, 0.3 mg/l (high quality surface water) with the highest concentration was reported for the groundwater well BH201 located in the southern area of CS&G. TSV exceedances were typically reported at concentrations <1 mg/l with the exception of groundwater well BH633 (1.2 mg/l), leachate well BH635S (1.8 mg/l), leachate well BH636D (0.94 mg/l), leachate well BH636S (3.5 mg/l) and groundwater well BH654D (1.1 mg/l). Monitoring wells BH633, BH635 and BH636 are located in central and northern CS&G and BH654 is located in the southern area of CS&G.

pH was generally reported with the neutral range pH5-pH9 with the exception of sample tested from groundwater well BH06 where pH was reported at 5.9 (round 2) suggesting slightly acidic conditions. BH06 is located centrally within CS&G.

The monitoring data has been used to inform the development of the CSMs.

6.10.1. Contaminant Distribution Mapping

A series of contaminant distribution maps have been developed for key contaminants of concern including ammonia, naphthalene, benzene, manganese and iron to assist in risk conceptualisation. These are presented at Figure 7 and discussed briefly below.

Ammonia – Round 1

Round 1 sampling of groundwater represents the most complete data set with regard to reported ammonia testing. Distribution mapping indicates more significant concentrations prevalent in the to the north of CIW which correlates with an area of significant generally domestic type waste depositions. Furthermore, localised elevated ammonia occurrences are identified in the southwest CS&G area and to a lesser extent within central CS&G. Mapping would does not support a significant site wide risk for this determinand with reported concentrations often reported at concentrations less than the adopted TSV, 0.3 mg/l (EQS).

Ammonia - Round 2

Round 2 sampling of groundwater distribution mapping indicates a broadly similar pattern to that observed following the initial monitoring round with more significant concentrations prevalent in the to the north of CIW and in the southwest CS&G area and to a lesser extent within central CS&G. Reported concentrations are generally reduced relevant to reported concentrations following the initial monitoring round.

Naphthalene - Round 1

Mapping indicates two primary occurrences, one located centrally extending from central CIW toward central CS&G and a further locate to the southwest of southern CS&G.

Naphthalene - Round 2

Round 2 sampling distribution mapping indicates a similar pattern with a more defined plume within central CIW extending west into CS&G. The intervals adopted for Round 2 mapping have been revised to reflect the significantly higher concentrations reported in the central area of CIW following additional site investigations and subsequent monitoring works completed.

Benzene - Round 1

Mapping identifies one primary occurrence or potential plume in groundwater exhibiting similar spatial characteristics to those observed of naphthalene with more significant concentrations located centrally within the CIW and CS&G sites. Lesser occurrences are evident in the southern area of CS&G.

Benzene - Round 2

Mapping of benzene concentrations in groundwater presents a similar but more refined plume area which are a result of additional delineation works carried out in the area of CIW. Benzene impacts are again noted across a distinct central area frow CIW extending to CS&G and toward the river. A furthermore localised plume is evident in the southwest of CS&G.

Manganese Round 1

Mapping of manganese concentrations in groundwater sees concentrations exceeding the derived TSV across much of the site area extending from north and central CIW across much of the CS&G site to the west. Localised elevations are evident in central CS&G and to a lesser extent in southern CS&G.

Manganese Round 2

Mapping of manganese concentrations reported following monitoring round 2 sees a similar site wide occurrence with areas of greater concentrations again present across central CIW across much of the CS&G site to the west with localised elevations evident in central CS&G and in southern CS&G.

Iron Round 1

Mapping of iron concentrations in groundwater presents a similar distribution to that observed for manganese with more elevated concentrations evident in the north and central CIW area extending across much of the CS&G site to the west. More elevated concentrations are also evident in the southern area of CS&G.

Iron Round 2

Mapping of iron concentrations in groundwater following monitoring round 2 sees a similar distribution to that observed for manganese round 2 in CS&G with more elevated concentrations evident in central CS&G site and to the south and southwest.

TPH Round 1

Mapping of Total TPH concentrations sees a number of localised occurrences with central CS&G, to the south the former yard area in CS&G and in the southwestern area of CS&G.

TPH Round 2

Mapping of Total TPH concentrations following monitoring round two indicates a distinct central area extending from CIW in the east to CS&G in the west. A localised plume is also evident in the southwest of CS&G.

Zinc Round 1

Mapping of zinc concentrations in groundwater indicates a number of localised distributions in the north and central CIW and in the south west of CS&G.

Zinc Round 2

Distribution mapping for round 2 suggest a large plume in the south and central area of the site extending from central CIW, south west and along the eastern area of CS&G. A number or marginal exceedances of the derived PNEC TSV were observed along the western area of central CS&G with a more elevated concentration reported at BH657 to the north (160 ug/l).

6.10.2. Iron and Manganese occurrence in groundwater and leachate

Iron and manganese have been consistently reported at concentrations often significantly exceeding the adopted TSVs within leachate and groundwater samples in CS&G and in CIW. Sampling test results for surface waters and groundwaters would suggest onsite waste depositions ((reference contaminant distribution mapping) are likely to be significantly contributing observed contaminant loads however there is considered to be a contribution from natural sources associated with the site's hydrogeological setting. This assertion is consistent with the Sirius 2017 sampling data where it is suggested that the observed concentrations for these determinands are a component of the hydrochemical effects of historical on-site processes such as sand and gravel extraction with an onsite contribution form waste deposition.

Similarly, ammonia concentrations detected within the surface waters are considered to be symptomatic of local agricultural activity which surround the site.

6.11. QA/QC SUMMARY

Ten duplicate field samples were collected to assess laboratory performance. Reported test results for these sampled are included at Appendix 12 for comparison purposes.

Compound concentrations were generally reported at similar concentrations where present at concentrations above LoD and are considered to be within an acceptable range of laboratory detection. Duplicates and corresponding groundwater samples generally reported similar non detection or concentrations less than respective laboratory LoDs.

More significant variations were reported for the duplicates from monitoring wells BH614, BH122 and BH622 for heavy metals copper, iron and manganese, although these variations for these compounds are not sustained across all duplicates.

Organics tests for duplicates including BTEX, TPHCWG, PCBs, PAHs, VOCs and SVOCs were also reported within an acceptable range. Duplicates and corresponding well samples generally reported similar non detects or concentrations less than respective LoDs.

Inorganics testing of duplicates were generally reported at similar concentrations where present at concentrations above LoD and were generally reported with an acceptable range. Where variations of duplicates were reported, these were localised to singular compound and/or duplicate testing.

The testing laboratory employed by the ICT appointed site investigation contractor for analytical services was Eurofins Chemtest Ltd. The Laboratory is accredited to the BS EN ISO/IEC 17025 International Standard (General Requirements for the Competence of Testing and Calibration Laboratories) (Accreditation Number 2183) for those tests that are identified and listed on the UKAS accreditation schedule (see www.ukas.com or S:\QA Docs\UKAS Accreditation Schedule).

6.12. SURFACE WATERS ASSESSMENT

A total of 15 no. surface water samples were retrieved during the Phase 1 sampling round with a further 15 no. collected during the Phase 2 works. Surface waters were collected from the River Faughan and surface water bodies present across the site including ponds and streams. Sampling locations were consistent with those adopted by the MPRT's EMP (refer to Figure 5).

Samples were submitted to a UKAS accredited laboratory for analysis for suites similar to that applied for groundwater and leachate sample testing.

The screening summary sheet presented in Appendices 9 & 10 details the selected water quality standards used to assess each given contaminant and summarises the associated laboratory data, highlighting any results that exceed the relevant screening criteria. Supporting laboratory test certificates are included at Appendix 11.

6.13. HEAVY METALS

6.13.1. Round 1

Following a review of round 1 monitoring data, all reported concentrations of heavy metals were reported below the adopted TSVs with the exception of Manganese. These exceedances are summarised in the table below.

Table 6-17 - Heavy metals >TSVs, Surface Waters - Round 1

(ug/I) Population Reported Samples concentratio concentr
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Manganese	276.92 (Note 1)	15	780	2	SW3	780
					SW4	540

Note 1- MBAT PNEC calculated value

Following a review of the heavy metal concentrations reported following monitoring round 1, manganese was the only determinand to exceed the TSV elevated concentrations relevant to the adopted TSVs. All exceedances were reported in samples obtained from the watercourse south of CS&G. Samples obtained from the River Faughan reported manganese concentrations below the TSV.

6.13.2. Round 2

Following a review of round 2 monitoring data, a number of heavy metals were reported above the adopted TSVs of varying magnitude and frequency. Surface water samples collected during round 2 were retrieved during over water drilling works as a requirement of the CEMP (Construction Environmental Management Plan). CEMP US was obtained in the River Faughan, upstream of the site in the location of SW13, obtained during the first round. CEMP DS was obtained in the River Faughan, downstream of the site in the location of SW8, obtained during the first round. These are summarised in the table below.

Table 6-18 - Heavy metals >TSVs, Surface Waters - Round 2

Determinand	Adopted TSV ^(see note 1)	Sample Population	Max Reported (ug/l)	No. Samples >TSV	Location	Reported concentration (ug/l)
Cadmium	0.09 (AA), 0.6 (MAC)	15	1.5	2	CEMP Pond 5 CEMP US (04/04/2022)	1.5 0.23
Copper	34.94 (Note 2)	15	56	2	CEMP US (04/04/2022)	56
Molybdenum (diss.filt)	70	15	2200	2	CEMP Pond 5 CEMP US (04/04/2022)	1200 2200
Antimony	0.07	15	5.8	1	CEMP US (04/04/2022)	5.8
Chromium VI	3.4(AA)	15	5.9	5	CEMP DS (28/03/22)	5.8
					CEMP DS (04/04/22)	4.2
					CEMP Pond 3A	4.8
					CEMP US	5.9
					(28/03/22)	4.1

		CEMP US	
		(04/04/2022)	

Note 1 - Adopted TSVs are EQS unless otherwise stated.

Note 2- MBAT PNEC calculated value (

AA - Annual Average

MAC - Maximum allowable concentration

Following a review of the heavy metal concentrations reported following monitoring round 2, reported concentrations of Chromium VI exceeded adopted TSV (3.4ug/I) on 5no. occasions and upstream and downstream concentrations were comparable. The maximum concentration of 5.9ug/I was reported in an upstream sample, CEMP US, obtained on 28th March. Reported concentrations of Chromium VI were generally low level and within the same order of magnitude as the TSV.

Determinands Cadmium, Copper, Molybdenum and Antimony all reported concentrations in exceedance of their respective TSV in the upstream sample CEMP US obtained on 4th April 2022. Reported concentrations of copper were generally low level and within the same order of magnitude as the TSV. Reported concentrations of Cadmium, Molybdenum and Antimony were 1 and 2 orders of magnitudes greater than the TSV.

Reported concentration of Cadmium, Molybdenum was in exceedance of the TSV in the sample obtained from CEMP Pond 5, located within the CIW site.

6.13.3. PhenoIs

Reported Total Phenol concentrations were below the LoD following both monitoring rounds.

6.13.4. TPHCWG including MTBE & BTEX.

No exceedances of the adopted TSVs were reported for the aliphatic, aromatic, or BTEX compounds tested with compound concentrations typically reported at concentrations less than LoD following both monitoring rounds.

6.13.5. PAHs

Generally, all PAH compound concentrations for the obtained surface water samples were reported below the LoD following both sampling events and where detected were reported below the relevant TSV.

6.13.6. VOCS

One surface water sample, CEMP Pond 3A was analysed for VOCs during the second round of monitoring and concentrations were reported below the laboratory LoD.

6.13.7. SVOCS

One surface water sample, CEMP Pond 3A was analysed for SVOCs during the second round of monitoring and concentrations were reported below the laboratory LoD.

6.13.8. Inorganics Round 1

Generally reported determinand concentrations were not reported in excess of applicable TSVs where available with the exception of cyanide (total). Results are summarised in the table below.

Table 6-19 - Inorganics >TSVs, Surface Waters- Round 1 CIW

Determinand	Adopted TSV (mg/l)	Sample Population	Max Reported (mg/l)	No. Samples >TSV	Location	Reported concentration (ug/l)
Cyanide (Total) Low-Level	0.001	15	0.014	7	Lagoon SW1 SW3 SW4 SW5 SW7 SW9	0.013 0.014 0.0090 0.0070 0.0070 0.0060 0.012

Reported concentrations of Cyanide (total) were generally low-level marginal exceedances. Reported concentrations ranged from 0.06ug/l (SW7) to 0.014 (SW1). All samples obtained, with the exception of SW7 were collected in the watercourse south of the CIW and CS&G site or from the lagoon within the CIW site. SW1 is located up gradient of the site within the tributary to the south of CIW and would suggest observed concentrations are associated with background concentrations present or are potentially attributable to an offsite source.

6.13.9. Inorganics Round 2

During the second round of monitoring, generally reported determinand concentrations were not reported in excess of applicable TSVs where available with the exception of ammonia. Results are summarised in the table below.

Table 6-20 - Inorganics >TSVs, Surface Waters CIW- Round 2 CIW

Determinand	Adopted TSV (mg/l)	Sample Population	Max Reported (mg/l)	No. Samples >TSV	Location	Reported concentration (ug/l)
Ammonia	0.3	15	0.72	3	CEMP Pond 3A (21/03/22)	0.31
					CEMP Pond 3A (23/02/22) CEMP US (21/03/2022)	0.72 0.62

Reported concentrations of Ammonia were reported in excess of the adopted TSV on 3no. occasions, 2no. within Pond 3a located in the northern CIW area and once in the upstream CEMP US sample. Concentrations were low

level ranging from 0.31ug/l (Pond 3A, 21/03/22) to 0.72ug/l (Pond 3A, 23/02/22).

6.13.10. Summary of Surface Water Assessment

Following a review of surface waters assessment, a significant or potentially significant risk to the River Faughan has not been identified. Where heavy metal exceedances were detected, these are marginal in nature with upstream monitoring indicating concentrations consistent with existing local background concentrations. Organics were generally not detected above laboratory limit of detection. Similarly, inorganics testing of surface waters does indicate a significant contaminant increase relevant to observed background or offsite concentrations.

7. REVIEW NIEA QUARTERLY MONITORING WATERS ASSESSMENT (2016-2021)

Tetra Tech undertook a review of the historical monitoring data provided by the NIEA's MPRT to augment the recent site characterisation and monitoring works. Groundwater monitoring was undertaken quarterly at the site between 2017 and 2022 with samples analysed for a range of contaminants including heavy metals, phenols, speciated TPH, BTEX, inorganics and pH.

The screening summary sheet presented in Appendix 13 details the selected water quality standards used to assess each given contaminant and summarises the associated laboratory data, highlighting any results that exceed the relevant screening criteria. Analysis supporting the quarterly monitoring programme was undertaken by NIEAs Water Chemistry Group (WCH) Labs and is fully accredited from the point of sampling. Analysis conducted internally by NIEA WCG Labs did not generate laboratory test certificates.

The results from the groundwater and leachate samples have been assessed in accordance with criteria provided in the Water Framework Directive 12 or by direct comparison with the Transitional and Freshwater Environmental Quality Standards (EQS), UK Drinking Water Standards (DWS), WHO (World Health Organisation standards for Drinking Water) or other appropriate guidance values.

7.1. **HEAVY METALS**

Historically, reported concentrations for Iron, Manganese, Nickel and Lead have been reported in exceedance of adopted TSVs across the site.

Reported concentrations for Iron and Manganese were most elevated with concentrations generally reported 1no. order of magnitude greater than the TSV. A maximum reported concentration of Iron (142,000ug/l) was recorded at BH107, located in the central CS&G site, on the 05/07/2019 compared to the TSV of 1000ug/l. Over the course of the monitoring period, reported concentrations have reduced considerably from November 2021 onwards with most recent concentrations reported below the TSV.

Manganese concentrations were also frequently reported above the adopted TSV (276.92ug/l) at monitoring wells sampled across the site throughout the period. A maximum manganese concentration of 168,000ug/l was reported at BH06, located close to the western boundary of the central CS&G site, on the 17/04/2018. Over the course of the monitoring period, reported manganese concentrations were noted to be on a downward trend at BH106.

¹² The Water Framework Directive (Classification, Priority Substances and Shellfish Waters) Regulations (Northern Ireland) 2015



To a lesser extent, reported nickel concentrations exceeded the derived TSV (M-BAT PNEC) of 14.98 ug/l at monitoring wells across the site. Reported nickel concentrations were generally low level and within the same order of magnitude as the TSV with the exception of BH302, located along the western boundary of the CIW area, where concentrations were consistently reported at concentrations >300ug/l. The maximum reported nickel concentration of 395.97ug/l was reported at BH302 from a sample obtained on 13/10/2020.

The reported copper concentrations exceeded the TSV of 34.94ug/l at a number of locations within the CS&G site. A maximum concentration of 109ug/l reported in BH107 located in the central CS&G site.

To a lesser extent, exceedances of chromium (BH06), zinc (BH06, BH114, BH207, BH401, BH404, BH408), chromium III (SW6; BH302 & BH218) and Lead (BH06) were identified. The exceedances were generally low level with reported concentrations in the same order of magnitude as the adopted TSV.

Historically, heavy metal concentrations were generally below TSVs in the surface water samples obtained with occasional exceedances of manganese and iron reported with the exception of samples collected from SW5 and the Trench (located in the southeast corner of CS&G). Surface water samples obtained from SW5, and the Trench reported manganese concentrations which were consistently reported in exceedance of the TSV.

At SW5, reported concentrations of manganese ranged from 108ug/l to 1407ug/l, with the majority of concentrations reported in excess of adopted TSV of 276.92ug/l. Over the 5-year monitoring period, manganese concentrations were noted to exhibit a slight downward trend.

Reported manganese concentrations in samples obtained from the Trench ranged from 83.152ug/l to 7040ug/l with concentrations of the majority of sampling occasions exceeding the TSV (derived PNEC following MBAT assessment).

7.2. PHENOLS

Historically, phenol concentrations in exceedance of the adopted TSV (7.7 ug/l) were reported in boreholes across the site with reported exceedances ranging from 13ug/l in BH04 to 25000ug/l in BH213.

Based on the level of frequency that 22.50ug/l was reported as the phenol concentration, it is assumed this was the laboratory LOD and not considered to be an exceedance when reviewing historical data.

7.3. TPH CWG INCLUDING BTEX

Historical monitoring at the site has shown that reported concentrations for aliphatic fractions were generally below the adopted TSV (WHO DWS¹³). Exceedances of the adopted TSV for aromatic fractions were noted, mostly for fractions C5-7, C10-C12, C12-C16, C16-C21 and C21-C35. Where exceedances occurred, reported concentrations were generally 1no. order of magnitude greater. At BH06 (close to western boundary of CS&G, refer to figure 3 for site investigation location plan) and BH302 (close to western boundary of CIW), the reported concentrations of C12-C16 and C16-C21 at BH06 and BH302 were 2no. orders of magnitude greater than the applied TSV.

Reported concentrations of aromatic fraction C5-C7 were also in exceedance of the adopted TSV. At a number of boreholes in the centre of the CS&G site, extending into the west of the CIW site, the reported concentration of aromatic fraction C5-C7 was up to 2no. orders of magnitude greater than the adopted TSV. A maximum reported concentration of 4776.867ug/l was recorded at BH404 located in the central are of the CS&G site.

Significant exceedances of the adopted TSV for Benzene (10ug/I) were reported at boreholes located within the central CS&G site, extending toward the CIW site to the east. A maximum benzene concentration of 3650.21ug/I was reported at BH404, located along the eastern boundary of the central CS&G site. All reported benzene concentrations at BH404 exceeded the TSV and over the monitoring period the generally trend showed reducing concentrations. Outside, of the central CS&G and CIW area, a reported benzene concentration of 40ug/I was reported at BH213, located in the northeast corner of the CIW site.

Reported concentrations of Toluene in exceedance of TSV (70ug/l) were also reported in boreholes located within the central CS&G site, extending into the CIW site, but to a lesser magnitude to that reported for Benzene concentrations. A maximum Toluene concentration of 1138.37 ug/l was reported at BH404 (eastern boundary of the central CS&G site).

Outside, of the central CS&G and CIW area, a reported toluene concentration of 130ug/l was reported at BH213, located in the northeast corner of the CIW site.

To a lesser frequency, reported concentrations of ethylbenzene was reported in excess of the TSV (300ug/l) at BH206, BH404 and BH405 which are located on either site of the Mobuoy Road. A maximum ethylbenzene concentration of 1041.76ug/l was reported at BH404 (eastern boundary of the central CS&G site).

¹³ World Health Organization (WHO), 2008. Petroleum products in drinking-water. Background document for development of WHO guidelines for drinking water quality. WHO/SDE/WSH/05.08/123. World Health Organization, Geneva. Accessed at: http://www.who.int/water_sanitation_health/dwq/chemicals/petroleumproducts_1add_ju ne2008.pdf

7.4. PAHS

Elevated concentrations in exceedance of the adopted TSV for Benzo(b)fluoranthene (0.017 ug/l), Benzo(b)fluoranthene (0.017 ug/l), naphthalene (2 ug/l) and Benzo(a)pyrene (0.00017 ug/l) were identified across the site. The exceedances were generally low level and within the same order of magnitude as the TSV. Based on the level of frequency that 0.001ug/l was reported as the Benzo(a) pyrene concentration, it is assumed this was the laboratory LOD and not considered to be an exceedance when reviewing historical data.

The maximum reported concentration for Benzo(b)fluoranthene (0.574ug/l) and Benzo(k)fluoranthene (0.317ug/l) were recorded in BH106 located close to the western boundary of CS&G.

A maximum reported concentration for Benzo(a)pyrene of 1.734ug/l was recorded in BH207, located towards the northern end of central CS&G site.

Reported naphthalene concentrations across the site were also in exceedance of the adoptive TSV (2ug/l) with most exceedances occurring in the central CS&G site and extending into the CIW site. Naphthalene concentrations in exceedance of the TSV were also report in the northern CS&G site (BH04, BH05, BH218), Southern CS&G site (BH07 and BH201) and southern CIW site (BH121 and BH208). Reported concentrations were frequently 3no. order of magnitude greater than the TSV with a maximum reported naphthalene concentration of 4,832.956ug/l reported at BH404, located along the eastern boundary of the central CS&G site.

7.5. INORGANICS

Generally, during historical monitoring, inorganic compounds were reported at concentrations below TSVs (where available) with the exception of Chloride, Ammoniacal Nitrogen, Sulphate, Nitrate, Sodium and pH.

Exceedances of Chloride were generally reported below TSVs but reported concentrations in exceedance of the TSV of 250 mg/l were reported frequently at BH04, BH06, BH107, BH206, BH213, BH218, BH302. A maximum concentration of 5,569mg/l was reported at BH302.

Historically, ammoniacal nitrogen was reported as NH₃ (un-ionised). Ammoniacal nitrogen concentrations were reported in excess of the TSV (0.3mg/l) across much of the site, with exceedances ranging from 0.31 mg/l to 2,880 mg/l. The maximum concentration was reported at BH213, located in the northern section of CIW and reported ammoniacal nitrogen (NH₃ un-ionised) were consistently high at this location (>2670 mg/l).

The reported concentration of sulphate exceeded the TSV at 4 no. locations (BH209 (southern CIW), BH216, BH217 (located to the north of current investigation area) and BH303 (located along the western boundary of central CIW)). The maximum concentration of 512.32 mg/l (compared to the TSV of 250 mg/l) was reported at BH217.

Sodium was generally reported below the TSV, but frequent exceedances were reported at select wells including BH04, BH06, BH107, BH206, BH218, BH302. A maximum concentration of 1055ug/l was reported at BH302.

The pH of all samples fell with the range of 6-9, with the exception of BH06. The pH at this location was recorded as <6 on 5 no. occasions.

7.6. COMPARISON OF HISTORIC AND RECENT WATER SAMPLING DATA

7.6.1. Heavy Metals - Groundwater

Historically, reported concentrations for Iron and Manganese were generally reported 1no. order of magnitude greater than the TSV across the site and similar results were reported during the most recent round of monitoring with exceedances being identified at a number of monitoring wells. A review of the historical monitoring data identified the maximum Iron concentration of 142,000ug/l was reported at BH107 and similarly during the most recent round of sampling, the maximum Iron concentrations of 120,000ug/l was reported at BH107. BH107 is located in north central CS&G area.

Historically, the maximum manganese concentration of 168,000ug/l was identified in BH06. During the most recent rounds of sampling, the maximum manganese concentration of 63,000ug/l was also recorded at BH06.

Nickel was identified at a number of boreholes in exceedance of the TSVs during the historic monitoring period. The greatest concentrations were recorded at BH302, where reported Nickel concentrations were consistently reported >300ug/l with a maximum concentration of 395.97ug/l recorded. During the recent round of monitoring, Nickel exceedances were also reported site wide, with a maximum concentration of 310ug/l recorded at BH214. BH302 and BH214, are located in close proximity of each other, within the northern section of the CIW site. During the most recent round of monitoring, the concentration of Nickel at BH302 was reported at 170ug/l.

Copper concentrations in exceedance of the TSV were identified frequently at BH106 and BH107 from the end of 2018 to the start of 2019 and at BH119 during 2019 and 2021. During the most recent round of monitoring, copper exceedances were not reported at either of these locations.

Reported concentrations of Zinc during the historic monitoring tended to be below TSV, however exceedances were identified at a number of boreholes within the central CS&G and close to the western boundary of the central CIW site. A maximum Zinc concentration of 95.9ug/I was recorded at BH207; however, this was a singular exceedance in 2018 with no further exceedances identified at this location. Historically, frequent exceedances were also identified at BH06 during 2018 and 2019. During the most recent round of monitoring, exceedances were identified at number of locations across the site with a maximum concentration of 1800ug/I being reported at BH656 located in the northern CS&G site. At BH06 (where historically exceedances have been identified), the reported zinc concentration was below the TSV during the most recent round of monitoring.

7.6.2. Heavy Metals - Surface Water

Historically, heavy metal concentrations in the surface water samples were generally reported below the TSV. Occasional exceedances of compounds were identified, most notably Iron and Manganese, but exceedances tended to be infrequent with the exception of SW5 and samples obtained from the Trench in southern CS&G. During the recent round of surface water sampling, the reported concentration of manganese at SW5 was 130ug/l which is below the TSV of 276.92ug/l.

The most recent rounds of monitoring identified marginal exceedances of the TSV for manganese at SW1, SW3, SW4 and SW5. During historic monitoring, manganese exceedances were identified at SW3 and SW4 however these were infrequent. At SW3, exceedances were noted during 2017 and 2019, with and no further exceedances identified during monitoring rounds undertaken between 2020 to 2022.

At SW4, historically manganese exceedances were identified in early and Mid-2021, with no other exceedances identified during the monitoring period (2017 to 2022).

7.6.3. Phenois

Historically Phenols were generally reported below the limit of laboratory detection, and this was comparable to the results of the recent groundwater and surface water monitoring.

7.6.4. TPHCWG including BTEX - Groundwater

The NIEA monitoring data has shown that historically, hydrocarbon exceedances were typically identified in aromatic fractions C5-C7, and fractions included within C10-21 ranges. Only occasional exceedances of aliphatic fractions were identified which is comparable with the recent groundwater results. Historically, generally marginal exceedances were reported for wells across the site wide with more elevated and more frequent concentrations identified in the central CS&G and CIW site. The highest TPH concentrations were reported at BH06 (along the western boundary of the CS&G site) and BH302 (close to the western boundary of the northern CIW site).

Historically BH06, located along the western boundary of the CS&G site recorded elevated concentrations in the aromatic fractions C10-C21, however during the recent monitoring, all reported TPH fractions were reported below the laboratory LoD. However recent sampling of BH410, which is located adjacent to BH06, reported elevated concentrations for various TPHs fractions. Multiple monitoring wells sampled during the recent sampling events have identified hydrocarbon fractions in exceedance of TSVs within the central CS&G and CIW areas.

Historically, elevated TPHs were reported at BH07 and BH201 located in the southern area of CS&G. During Tetra Tech's monitoring, no exceedances were identified at these boreholes. However, exceedances were identified in boreholes proximal to these locations at BH625, BH626 and BH629.

Historically, elevated TPHs were reported at BH122 and BH208 located along the southern boundary of the CIW site. Recent monitoring undertaken at these locations reported all TPH fractions at concentrations less than laboratory LoD. A review of historic data has shown the exceedances at these locations to be singular low-level events, with subsequent rounds typically reported at concentrations < laboratory LOD.

NIEA historic data has reported exceedances of the TSV for aromatic fractions at BH218 located in the north of the CS&G site and recent monitoring undertaken also identified exceedances in this area.

Historically, low level exceedances of TPH fractions were identified in BH302 located in the northern section of CIW. During Tetra Techs monitoring rounds, no exceedances were identified at this location, however low-level exceedances were identified in BH214, located immediately east of BH302.

Historically, reported concentrations of Benzene in exceedance of the TSV were located within the central CS&G and Central CIW site. A maximum benzene concentration of 3,650.21ug/l was reported at BH404, with all reported concentration >1,461ug/l at this location. During the recent ICT sampling, groundwater samples within the central CS&G and Central CIW site continued to report Benzene concentrations in exceedance of the TSV in the existing wells and newly installed sampling wells.

Historically, low level benzene concentrations were reported BH213 which is located in the northern section of the CIW site. During recent ICT sampling monitoring benzene concentrations at BH 213 were reported as less than the LoD, although low level exceedances were identified in leachate at BH215 which is located southwest of BH213.

Historically, Toluene concentrations were reported in excess of the TSV at boreholes primarily located in the central CS&G area, extending into the CIW site, with the exception of BH213 located in the north of the CIW site. The maximum Toluene concentration of 1138.37ug/l was recorded at BH404, located along the western boundary of the central CIW area. During the recent ICT sampling, Toluene was again reported as an exceedance of the TSV at wells within the central CS&G and CIW area, in the existing wells and newly installed wells. A maximum concentration of 1,100ug/l recorded at BH402 during the second round of monitoring (and 460ug/l during the first round). BH402 is located with the central CS&G site, west of BH404.

Toluene concentrations in exceedance of the TSV were identified in BH213 located in the north of the CIW site and additional in BH610 during the recent ICT sampling. Elevated concentrations were also identified in the newly investigated area in the southern portion of the CS&G site.

Historically, Ethylbenzene concentrations were reported in excess of the TSV 2no. boreholes BH404 and BH405, located along the western boundary of the central CIW area. A maximum reported concentration of 1,041.76ug/l was recorded at BH404. Results from the sampling rounds have reported exceedances at BH404 with a maximum concentration reported of 760ug/l during the second round of sampling. Reported concentrations of Ethylbenzene at BH405 were below the relevant TSV. In addition, reported concentration at 2no. wells within the central CIW area and 2no. wells within the southern CS&G area were reported in exceedance of the TSV. A maximum concentration of 1,700ug/l was recorded at BH626 located in the southern CS&G site.

7.6.5. TPHCWG including BTEX – Surface Water

Monitoring data collected by the NIEA did not identify any aromatic or aliphatic hydrocarbons fractions or BTEX compounds in exceedances of the adopted TSVs. This is comparable to the recent Tetra Tech sampling results for surface waters.

7.6.6. PAHS - Groundwater

NIEA has reported concentrations of Naphthalene in exceedance of the TSV across the site, with the majority located in the central CS&G and CIW area. A significantly elevated maximum concentration of 4,832.96ug/l was recorded at BH404, located along the western boundary of the CIW central area during 2022. Samples obtained from BH206, due west of BH404 reported concentrations in exceedance of the TSVs, although they were significantly less (maximum of 49ug/l during Round 1).

Naphthalene exceedances during the recent rounds of sampling undertaken by Tetra Tech were less frequent with a number of monitoring wells now reporting concentrations below laboratory LoD however, exceedances of naphthalene were reported in many of the surrounding monitoring wells. A number of monitoring wells in the central CS&G and CIW area reported naphthalene exceedances in similar locations to those observed historically.

Historically BH121 and BH208 located in the southern portion of CIW, recorded elevated concentrations of Naphthalene in exceedance of TSVs. Recent monitoring reported naphthalene concentrations at <LoD at these locations. On review, the exceedance in BH121 it was reported in August 2021, but the 2 subsequent monitoring rounds reported Naphthalene concentration below the TSV. Similarly, the exceedance reported in BH208 was for October 2019 and all subsequent monitoring rounds were reported below TSVs.

Historically, elevated naphthalene concentrations were reported at BH07 and BH201 located in the southern area of CS&G. During Tetra Techs monitoring, no exceedances were identified at these boreholes. However, exceedances were identified in the surrounding wells samples at BH625, BH626 and BH629.

Historically, an elevated naphthalene concentration of 40 ug/l was reported at BH213 (10/07/17), located in the northern portion of the CIW site. This location was only monitored on 1no. occasion and no subsequent data is available. The sample was only analysed for Naphthalene and no further PAH monitoring data is available. Monitoring at this location undertaken by Tetra Tech reported a concentration <LoD. Samples obtained from boreholes in the surrounding area (BH214 and BH215) also reported concentrations <LoD.

Historically, reported concentrations of Naphthalene were recorded at BH218 which were in exceedance of the TSV at BH218, located in the northern section of CS&G. Over the course of 14no. monitoring events, reported concentrations on 4no. occasions exceeded the TSVs with most recent recorded in August 2021. During the recent monitoring at this location, the naphthalene concentration was reported as less than laboratory LoD. Naphthalene concentrations in surrounding wells (BH656 and BH657) were also reported < LoD in the recent round of sampling. NIEA monitoring has seen a variation in reported concentrations at BH218 including instances where it was not reported above laboratory LoD (assumed to be 0.004 ug/l). The variation in reported results is likely to be attributable to variations in site conditions e.g. natural attenuation and groundwater levels.

7.6.7. PAHS – Surface Water

A review of the historic quarterly monitoring data has not identified any naphthalene concentrations in exceedance of the adopted TSVs with concentrations generally reported below the LOD. This is similar to recent surface water monitoring undertaken by Tetra Tech, with all analysed water samples reporting concentration below the TSV and the majority below the LOD.

7.6.8. Inorganics – Groundwater

Historically, concentrations of chloride were generally below TSVs, but reported concentrations in exceedance of the TSV of 250 mg/l were reported frequently at BH04, BH06, BH107 (located closed to the western boundary of CS&G), BH206 (central CS&G area), BH213 and BH302 (northern CIW), BH218 (Northern CS&G) with a maximum concentration of 5,569 mg/l reported at BH302.

Recent sampling identified chloride concentrations at similar locations with a maximum reported concentration of 1,400 mg/l recorded at BH214, located beside BH302. Newly identified elevated concentrations were reported in the southern CS&G area at BH626 and BH201.

Historically, ammoniacal nitrogen concentrations were reported in excess of the TSV (0.3 mg/l) across much of the site, with exceedances ranging from 0.31 mg/l to 2,880 mg/l. The maximum concentration was reported at BH213, located in the northern section of CIW and reported ammoniacal nitrogen (NH₃ un-ionised) were consistently high at this location (>2670 mg/l).

During recent monitoring, Ammonia (free) was also identified at a number of boreholes across the site in exceedance of the TSV with maximum concentration of 21 mg/l reported in leachate well BH214, which is located in the northern central area of CIW (southwest of BH213, where the reported ammonia (free) concentration was reported at 2.5 mg/l).

Historically, reported concentrations of sulphate were in exceedance of the TSV at 4no. location across the site with a maximum concentration of 512.32 mg/l (compared to the TSV of 250 mg/l) was recorded at BH217 (located to the north of current investigation area). Recent monitoring has generally reported low concentrations across with the site, but with occasional exceedances. A maximum concentration of sulphate was reported at BH679 (420 mg/l), located in the central CIW area.

Historically, the pH of all samples generally fell within the range of 6-9, with the exception of BH06 where the pH was recorded as <pH6 on 5no. occasions. Recent monitoring reported the pH at BH06 at pH5.9 confirming slightly acidic conditions also.

Historically, frequent exceedances of sodium were reported at BH04, BH06, BH107 (along the western boundary of CIW), BH206 (central CS&G), BH218 (northern CS&G) and BH302 (northern CIW). A maximum concentration of 1055 mg/l was reported at BH302.

Current sampling identified sodium concentrations in exceedance of TSV at BH302, BH213, BH214 BH215, BH645, BH646, BH647 and BH610 all located in the Northern CIW area. The maximum concentration of 910mg/l was reported in BH214, close to the location of BH302.

Exceedances were also reported along the western boundary of CS&G, in the northern CS&G area and central CS&G, similar to historical data.

7.6.9. Inorganics – Surface Water

All reported inorganic compounds for analysed surface water samples were below applicable TSVs.

7.7. COMPARISON OF MPRT EMP DATA WITH CURRENT

On completion, it is considered that the findings following the current groundwater and surface water monitoring events are generally consistent with historic data. Reported concentrations of heavy metal compounds, most notable iron and manganese were in exceedance across much of the site historically and this was also identified during recent monitoring events. Historically, concentrations of organic compounds were reported in excess of the TSVs predominantly in the central areas of CS&G and CIW, but also occasionally in the north and south of the CS&G site and in the north the CIW site. Recent monitoring identified similar areas of exceedances with the most elevated and potentially significant observed in central areas of CS&G and CIW with lesser but still potentially significant exceedance observed in the southwest of CS&G.

Reported concentrations of inorganic compounds ammoniacal nitrogen, chloride and sodium were historically reported in exceedance across the site and recent monitoring has also shown similar trends.

The data set will be considered further in conjunction with recent monitoring data to assess contaminant trends with respect to assessing contaminant degradation and aquifer attenuation characteristics to inform future contaminant fate and transport modelling.

8. SITE ZONING

Following completion of the additional site investigation and monitoring in May 2022, the initial zones proposed by WYG (PRA, 2016) and adopted and developed by Sirius (2017) have been revisited to make sure these remain consistent with the current risk profile.

Sirius DQRA report, 2017 stated the following,

"Five main source areas (Zones 1-3; Zone 4; Zone 6; Zone 7 and Zone BH206) have been identified on the basis of waste types, depositional locations and analytical results obtained from on-site boreholes. Several contaminants of concern (iron, manganese and ammoniacal nitrogen) have also been identified as being more widely present within site groundwater. Individual source areas have been assessed based on the identified contaminants of concern within each and their sizes and locations relative to the River Faughan."

Tetra Tech supports the rationale adopted but have refined site zoning where applicable on the basis of the extensive additional site data captured following the recent phase of ground investigation works in 2021 and 2022. These zones are described below in the context of previously assigned Sirius source zone areas. Tetra Tech have included zones as 'source' zones as indicated by soils, groundwater and waste characteristics.

Current zone mapping is included on Figure 9. Geological Cross Sections have been developed for each of these zones and are presented within the subsequent chapter. These geological cross sections along with the Conceptual Site Models (CSMs) consider the main potential pollutant linkages.

Table 8-1 - Tetra Tech Source Zones Revised

Sirius Zone	Description	Tetra Tech Source Zone Reference	Description	PCoCs (Tetra Tech 2022)
Source Zone 1	Area of unauthorised landfilling north of closed landfill on the City Industrial Waste area. Comprising mixed organic, domestic and construction and demolition type wastes.	Source Zone 1	Tetra Tech adopted same.	Generally consisting of metals, ammonia, low level TPH, PAHs.
Source Zone 2	Area of the historic closed (formerly permitted) landfill, which contains mixed domestic and construction and demolition-type wastes. Thin bands of clay strata are present near the surface and forming horizontal bands within the waste	Source Zone 2	Tetra Tech adopted same. Tetra Tech will consider zone 1 and 2 as one area for purposes of risk assessment.	Generally consisting of metals, ammonia, low level TPH, PAHs.

Sirius Zone	Description	Tetra Tech Source Zone Reference	Description	PCoCs (Tetra Tech 2022)
Source Zone 3	Area to the southwest of the closed landfill. Entec Report, 1993 suggested presence of tarry waste in this area.	Source Zone 3	Sirius treating zones 1, 2 and 3 as one areadue to significant tarry waste detected (Tetra Tech 2021/22) Zone 3 Tetra Tech will require as singular zone due to higher risk profile	Generally consisting of metals, ammonia, BTEX, PAHs, BTEX.
Source Zone 4	Raised area of waste material deposited towards the south-eastern area of the City Industrial Waste site. Previous investigations indicated domestic and construction and demolition-type wastes in this area. Historical isolated incidence of suspected tarry wastes. Wastes deposited indicative of C&D and domestic, processed (trommel fines).	Source Zone 4	Tetra Tech adopted similar but reduced area to accommodate the A6 alignment works.	Generally consisting of metals. Abuts area of A6 works, likely to see significant enabling works and associated waste removal.
Source Zone 5	Area of former Campsie Sand and Gravel where historic documentary evidence suggested that tarry wastes may have been deposited.	Source Zone 5	Tetra Tech adopted similar but larger area. Entec 1993 suggested presence of tarry waste in this area. Tetra Tech 2021/22 confirmed. Likely to be hazardous waste c. 2-3m underlain by sands/gravels	Signatures of tarry waste in waters, include BTEX, PAHs, highly localized.
Source Zone 6	Area in the southern part of Campsie Sand and Gravel where previous investigations had identified low level hydrocarbons in groundwaters.	Source Zone 6	Tetra Tech adopted similar but larger area. Area in the southern part of Campsie Sand and Gravel where previous investigations had identified low level hydrocarbons in groundwaters. Tetra Tech confirmed similarly low-level contaminant occurrences.	Diffuse low level TPH, PAHs, metals.
Source Zone 7	Localised area of construction and demolition type wastes in the north of Campsie Sand and Gravel site	This area is now captured in Tetra Tech Source Zone 9. Lands to the north of CS&G	Tetra Tech zonal mapping diverges from Sirius here. This is the area of former processing area Campsie Sand and Gravel. Some waste depositions to the south and southwest. Generally lower risk. Possible GW impacts associated with tarry wastes in CIW to northwest	Heavy metals, low level localized TPH.

Sirius Zone	Description	Tetra Tech Source Zone Reference	Description	PCoCs (Tetra Tech 2022)
Source Zone BH206	Final Sirius source zone. Single monitoring well, central CS&G, BTEX contamination	Captured in Tetra Tech Source Zone 8 (see below)		
No Sirius Zone		Source Zone 8, central CS&G area	Elevated TPH in groundwater. Potentially significant issue. Waste generally C&D with occasional domestic waste to c.2-5m underlain by sands/gravels.	BTEX, TPH, PAHs tarry waste indicators. Heavy metals, generally low-level ammonia.
No Sirius Zone		Source Zone 9	Lands to north of Campsie Sand and Gravel. Lagoon. Waste generally C&D with occasional domestic waste to c.2-5m underlain by sands/gravels	Heavy metals, generally low-level ammonia. Low level localised TPH
Site Wide	External to assigned source areas. Iron/manganese, ammoniacal nitrogen, main CoCs	Site Wide	Tetra Tech zones encapsulate entire site area	Tetra Tech zones encapsulate entire site area

8.1. UPDATED CONCEPTUAL SITE MODELS

For a risk of pollution or environmental harm to occur as a result of ground contamination, all of the following elements must be present:

- a source, i.e., a substance that is capable of causing pollution or harm.
- a receptor (or target), i.e., something which could be adversely affected by the contaminant; and
- a pathway, i.e., a route by which the contaminant can reach the receptor.

If one of these elements is missing, there can be no significant risk. If all are present then the level of the risk is a function of the magnitude and mobility of the contaminant, the sensitivity of the receptor and the nature of the migration pathway.

A refined conceptual site model has been developed for the site and is presented in this section. It identifies the main sources, pathways and receptors, and thus identify potential pollutant linkages (PPLs) applicable to the assigned source areas. This assessment is based predominantly on the recent site investigation (2021 and 2022) and Tetra Tech's review of historical data provided to them. The updated CSM is therefore considered to be representative of current site conditions.

Three Conceptual Site Model lines of section (Sections 1 -3) have been prepared for the site and these are presented within Figure 8, (refer to drawing numbers TTE-00-XX-DR-U-001, 002 and 003). The CSM drawings take into consideration current and historical site investigation data pertaining to the geological, hydrogeological and hydrology settings at the site. All of the CSM section are generally orientated west to east across the site, transecting the River Faughan. A descriptive summary of each CSM section is detailed below:

8.1.1. CSM Section 1

CSM Section 1 transects the southern portion of CIW which lies adjacent a small stream (tributary of the River Faughan) and comprises a bund of mixed wastes shown to lie above peat deposits over gravelly sand. The peat extends beneath the lagoon, which is further underlain by silt deposits which are anticipated to extend westerly at depth. Beneath the house/office building to the west of the lagoon a thin layer of reworked ground overlays gravelly sand. Granular deposits of mixed proportions of sand and gravel are the dominant superficial deposits across the entire section. C&D waste has been encountered west of Mobuoy Road and extends as far as the east bank of the River Faughan. Alluvial deposits surround and underly the River Faughan in these areas, with alternate layers of silty sandy clay and sandy silt overlying gravelly sand.

8.1.2. **CSM Section 2**

CSM Section 2 transects a significant deposition of domestic waste located in CIW which overlies a capping layer atop of a closed licensed inert landfill in the east of site. Domestic waste extends further west towards, increasing in thickness until you reach the Mobuoy Road. The Mobuoy Road is expected to be underlain by sand and gravel. Tarry waste lies at the base of the domestic waste and in turn sits directly on top of sand and gravel. The sand and gravel are considered a primary pathway for contamination to migrate towards the River Faughan. Mixed and C&D

Wastes have been encountered west of Mobuoy Road, some of which overlie sand and gravel and others overlie alluvial silts, and sandy clays. The sandy silt and sandy silty clay observed in proximity to the River Faughan are expected to afford the river a degree of protection against the direct release of contamination. Given that the River Faughan sits at the base of the river valley and is likely to act as a natural discharge point for groundwater, it is possible that groundwater is forced to move down-gradient along the line of the River Faughan to look for more permeable sections of the river at which it can discharge to surface water.

8.1.3. **CSM Section 3**

CSM Section 3 transects agricultural land to the east of the site boundary which is shown to comprises reworked ground. Going westwards a significant deposition of domestic waste is present with tarry waste at the base. An area of mixed waste is present up until the Mobuoy Road. West of Mobuoy Road there is largely C&D waste are shown with a pocket of domestic waste nearest to the roadside. As per CSM Section 2 the sandy silt and sandy silty clay observed in proximity to the River Faughan are expected to afford the river a degree of protection against the direct release of contamination.

Monitoring of groundwater levels undertaken by WYG environment in 2015 (as summarised at Section 2.3.9 of the Tetra Tech Scoping Study report, dated September,2021) particularly within the hyporheic zone indicate that groundwater was in hydraulic connectivity with the River Faughan and that under normal flow conditions groundwater flows from the site and discharges into the river.

Tetra Tech have reviewed the NIEA study, 'Review of Hyporheic Zone Information and Update of Further Investigative Works, Mobuoy Road Waste Site, April 2021' which presented an examination of hyporheic zone in the context of CSM for the site. This study suggests that the river's hyporheic zone extends into the sand and gravel aquifer. The report states, 'It is possible that this is because the River Faughan hyporheic zone is not limited to the riverbed, but in fact extends into the adjacent sand and gravel aquifer effectively making existing groundwater boreholes hyporheic monitoring points'.

Based on the available information for the hyporheic zone it is considered that a potential migration pathway exists between groundwater and the river system. This migration pathway will therefore be considered as a viable pathway with respect to the relevant source zones and its significance will be subject to further review during contaminant fate and transport modelling presented within the DQRA.

8.2. SOURCE ZONING

The following sections summarise the rational behind the zoning of the site into separately characterised areas. Source zone mapping is presented on Figure 9a.

8.3. **ZONES 1-2**

8.3.1. Sources

The thickness of domestic waste and/or mixed waste (domestic and C&D) present in Zone 1 is shown to be generally between 4.8m (BH610) and 12.5m (BH644). A greater thickness of waste is shown in Zone 2 (historic closed landfill) generally between 11.2m (BH655) and 16.5m (BH649B). Within Zone 1, waste was absent near to the quarry face and beneath the smaller waterbody (pond 4) in the north-eastern corner. Domestic waste was confirmed beneath the larger waterbody (pond 5) via an overwater borehole (BH603) which was terminated at 3.8 mbgl in domestic waste due to health and safety concerns resulting from the significant ground gas ingress within the well casing. The final waste extent was undetermined at this location. Replacement boreholes BH601R, BH602R and BH603R were progressed along the southern shore of pond 5 in an effort to assess anticipated waste extents. The waste in this zone was characteristic of domestic type wastes and is present at depths from 3.3 mbgl to 5.3 mbgl. The waste is typically underlain by a sandy and gravel with bedrock encountered at c.5-7 mbgl (confirmed at BH601 at 4.8 mbgl, suspected at BH601R, BH602R and BH603R at c. 7mbgl) within overland boreholes. Suspected bedrock was detected at shallow depths (< 0.5 mbgl) in overwater boreholes progressed in the north-eastern pond in this area (BH607, BH608 & BH609). The presence of bedrock in this part of the site means that groundwater contained within the sand and gravel aquifer is bound by this no-flow boundary.

Leachate and groundwater contaminant concentrations in Zone 1 exceed their respective TSVs:

- Heavy metals TSV exceedances (predominantly iron and manganese and to a lesser extent nickel, zinc, boron and chromium III). Marginal localised exceedances of cadmium (BH646), but generally cadmium was recorded to be present at concentrations less than its LoD for all groundwater and leachate samples.
- Localised TPH aromatic fraction exceedances for C10-C21 (leachate wells BH214 & BH125) and (groundwater BH610).
- Localised marginally exceedances of MTBE (leachate well BH645), benzene (leachate well BH215) and toluene (groundwater BH610D and leachate well BH213) were recorded during monitoring round 1 (2022).
- Ammonia was reported at concentrations exceeding the adopted TSV (0.3 mg/l) for all but two of the groundwater and leachate samples. Elevated concentrations were reported at more significant concentration at leachate well BH214 (21 mg/l), groundwater well BH302 (16 mg/l) and at groundwater well BH610D (7.4 mg/l).

Reported contaminant concentrations in groundwater and leachate within Zone 2 reported a similar trend. It should be noted that the number of wells sampled during round 1 was reduced from the initial monitoring rounds, consequently the data from each round is not immediately comparable on a borehole-by-borehole basis.

- Heavy metals TSV exceedances (iron, manganese in groundwater).
- Ammonia exceedances in groundwater at BH647A and BH649.

Reported contaminant concentrations in soils within Zones 1 and 2 are generally not considered to present a significant risk to health based on a POS (park) end use, with the exception of the following:

 Localised elevated PAHs (Benzo(b)fluoranthene of 29mg/kg and Benzo(a)pyrene of 44mg/kg) was reported at BH603R (Zone 1) at 3.0mbgl in excess of the POSpark GAC.

8.3.2. Pathway - Receptors Linkage

The principal pathway for dissolved phase contaminant migration is considered to be via shallow groundwater flow within the sand and gravel aquifer. Several reported contaminant concentrations are considered to present a potential risk to shallow groundwater and offsite surface waters via shallow groundwater migration. Surface water sampling to date has not identified impacts to downgradient surface waters and the associated risk is currently considered low, however this risk will be considered further as part of the modelling, detailed later in this report.

A conceptual site model has been developed and is presented below which identifies the potential sources, pathways and receptors assumed for these zones, and thus identifies plausible pollutant linkages.

Table 8-2 - Update Conceptual Site Model Zones 1-2

Contaminant	Pathway	Receptor	Further Action
Heavy metals, ammonia, low level BTEX, TPHs in leachate and groundwater	Shallow aquiferShallow aquifer, offsite migration	Groundwater Surface water	Further Detailed Risk Assessment to investigate significance of potential pollutant linkages and derive appropriate clean up criteria where applicable.
PAHs in soils (<1mbgl)	 Direct contact pathways (dermal, ingestion, inhalation) 	Potential future site users & Construction workers	Further consideration with regard to future remediation designs and source zone characterisation for DQRA

Following a review of the monitoring data collated the principal contaminants of concern PCoC identified in leachate and groundwater are heavy metals iron, manganese, lower level TPHs inclusive of BTEX compounds and ammonia.

8.4. **ZONE 3**

8.4.1. Sources

Zone 3 is located to the west of Zone 2, extending from Zone 2 westwards toward the Mobuoy Road and it exhibits similar characteristics in terms of waste composition to that described at Zones 1 and 2. The Sirius DQRA (2017) considered Zones 1-3 as a singular source area on the basis of the data available, "There is no discernible difference in terms of contaminant concentrations, waste types or hydrogeological behaviour that would result in a practical distinction between these areas in terms of risk assessment modelling" (Section 4.3, Sirius DQRA 2017). Following the recent phase of ground investigation works (2021 and 2022) a significant area of tarry waste and associated soil and groundwater contamination was noted in the area and as a result the risk profile has changed resulting in this zone being considered as separate source area.

Zone 3 comprises a raised area associated with the former licenced landfill. The ground level reduces toward the CIW yard. The waste in Zone 3 is similar in characteristic to those described at Zone 2. Wastes in Zone 3 are predominantly domestic or municipal in nature and extend to depths of c.12-13 mbgl. Waste material present below the yard area typically extend to depths of c.3-9 mbgl (BH679). Wastes located to the immediate south of the former landfill area within the CIW yard as described by borehole logs BH673, BH676, BH677, BH678 and BH679 are more characteristic of general construction and demolition waste. Superficial deposits underlying the area are predominantly of a silty fine to coarse sand.

Initial exploratory works and subsequent sampling at BH611 suggest a potential area of tarry impacted waste. A strong odour consistent with coal tar was noted during the drilling and sampling. The location of BH611 was informed by the Tetra Tech Scoping Study (September 2021) and was located in an area of suspected tarry waste deposition following a review of the Entec Report, 1993. Further delineation works resulted in the discovery of a significant area of tarry waste. The tarry waste was deposited at varying depths but is generally present at depths of 8-11 mbgl in the area of the former landfill. The tarry waste is present at shallower depths of c. 2-4 mbgl beneath the CIW yard area, to the immediate south. The tarry material was occasionally encountered in its free phase form. The material is generally described as a viscous black liquid and it was encountered at a number of locations within the zone including BH659 (7.7-10.5 mbgl), BH660A (9-10.8 mbgl), BH665 (8.4-11.2 mbgl) and BH673 (2.7-4.7 mbgl). Heavy staining of the underlying sand superficial deposits was evident at a number of locations in the area often extending to 2-4 meters into the underlying superficial deposits (e.g., BH665).

Reported contaminant concentrations in groundwater and leachate within Zone 3 reported a similar trend to that observed in Zones 1 and 2 for heavy metals. Monitoring rounds 1 and 2 reported frequent occurrences of iron and manganese above their relevant TSVs.

Organics testing identified elevated BTEX (predominantly benzene), aromatic TPHs and elevated PAHs (predominantly naphthalene) at BH405, BH406, BH301 and BH303 following monitoring rounds 1 & 2 (2022). Extensive additional site characterisation included the progression of a further 17 no. boreholes, BH659, BH660, BH665-BH679 boreholes which were sampled as part of the second site monitoring round. Analysis was generally targeted to organics including BTEX, TPH, PAH, VOCs and SVOCs on the basis of PCoCs identified following the initial sampling round.

Benzene concentrations were elevated at number of the monitoring wells with the maximum reported at BH303 (9,700 ug/l) which is located to the immediate west of the primary source area and BH669 (6,700 ug/l) which is located within the source area. A number of sampled monitoring wells peripheral to the area reported benzene concentrations less than LoD at locations to the north, northwest, east, southeast, south and southwest suggesting the benzene impact in groundwater is reasonably well delineated base on initial sampling. As stated, wells to the immediate west would suggest evidence of lateral migration toward the Mobuoy Road and CS&G further to the west.

Naphthalene concentrations reported a similar pattern to that of benzene although maximum concentrations were reported at different locations. Naphthalene was reported at concentrations >1,000ug/l at BH673 (1,500 ug/l), BH669 (1,200 ug/l) and BH660A (1,100 ug/l) all of which are located within the primary source area.

VOC and SVOC analysis generally identified similar PCoCs indicative of coal tar signatures including PAHs and various aromatic derivatives.

Low level exceedances of ammonia were reported following round 1 and 2 sampling with all concentrations reported at concentrations <1 mg/l.

Reported contaminant concentrations in soils within Zone 3 were not generally reported in excess for the GAC for a POS (park) end use, with the exception of the following:

- Localised aromatic fractions C10-C35 at BH660 at 9 mbgl, BH665 at 10 and 11 mbgl, BH673 at 3 and 4 mbgl
- Localised benzene concentrations at BH660 at 9 and 10 mbgl, BH671 at 2 mbgl.
- Multiple PAH compound exceedances were reported of PAH compounds including naphthalene, Benz(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(123cd)pyrene and Dibenz(a,h)anthracene. Highest concentrations were reported at BH673 at 3 and 4 mbgl, BH665 at 10 mbgl and BH660A at 9 and 10 mbgl.

The reported concentrations in soils are not considered to present a significant risk to health on the basis of current use but will be a future consideration with regard to remediation design. Initial leachate testing of soils in the source area identified significant aromatic fractions for boreholes progressed within the source area including BH660A at depths of 9 and 10 mbgl, BH659 at depths of 10 and 11 mbgl, BH665 at 9 and 11 mbgl, BH673 at 4 and 5 mbgl, BH668 at 14 mbgl, BH676 at 6 and 8 mbgl, BH675 at 4m. Soils leachate concentrations of benzene identified similar trends with a maximum concentration report at BH660A at 10 mbgl (22,000 ug/l). Soils leachate concentrations reported for PAH compounds also identified elevated and frequent occurrences for multiple PAH compounds, most notably naphthalene with a maximum of 22,000 ug/l reported at BH673 at 4m, its presence characteristic of locations where tarry wastes was encountered. The soil source characteristics will be developed further to inform future risk modelling via DQRA.

8.4.2. Pathway - Receptors Linkage

The principal pathway for dissolved phase contaminant migration is considered to be via shallow groundwater flow with the sand and gravel aquifer system. A number of reported contaminant concentrations are considered to present a potential risk to shallow groundwater and offsite surface waters via shallow groundwater migration. Surface water sampling to date has not identified impacts to downgradient surface waters and the associated risk is currently considered low, however it is recommended risk modelling consider future risk to ensure ongoing protection.

A conceptual site model is developed is presented below which identifies the potential sources, pathways and receptors assumed for this zone.

Table 8-3 - Updated Conceptual Site Model Zone 3

Contaminant	Pathway	Receptor	Further Action
Heavy metals, ammonia, BTEX, PAHs, TPHs in leachate and groundwater	Shallow aquiferShallow aquifer, offsite migration	Groundwater Surface water	Further Detailed Risk Assessment to investigate significance of potential pollutant linkages and derive appropriate clean up criteria where applicable.
TPHs, PAHs, BTEX, ammonia in soils	 Leaching to shallow aquifer Shallow aquifer, offsite migration 	Groundwater Surface water	Further Detailed Risk Assessment to investigate significance of potential pollutant linkages and derive appropriate clean up criteria where applicable.

Following a review of the monitoring data collated, the principal contaminants of concern PCoC identified in leachate and groundwater are considered to be heavy metals (iron and manganese), organics (PAHs, BTEX, TPH) compounds and ammonia. Natural sand and gravel present at depth within this source area is heavily impacted by tarry wastes and associated contaminants including BTEX, PAHs and TPHs which are leaching to groundwater.

8.5. **ZONE 4**

8.5.1. Sources

Zone 4 is located to the immediate south of the CIW yard and abuts the proposed A6 roads scheme to the immediate south and southeast and is generally characterised by made ground comprised of mixed waste (domestic and C&D). The waste has a thickness of between 1.6m (TP614) and 5.4m (TP655). A large soil berm or bund forms much of the south-eastern and southern boundary of this zone and the bund is adjacent to the south-eastern and southern boundary of the CIW site. Phase 3 site investigation works (in 2022) included the excavation of 8 no. trial pits (TP652-TP659) within and adjacent to this bund to assess its composition. The investigation also sought to confirm the thickness and nature of deposits below the waste. Trial pit data indicates the above ground soil bund/berm comprises a mix of C&D and domestic wastes within a general sandy gravelly silt with wastes beneath extending to depths of 3-5 mbgl comprising of similar type domestic wastes.

Superficial deposits in the area are generally characterised by sand. A horizon described as pseudo fibrous peat at 5.1 mbgl was reported for TP657 which was underlain by a silty gravelly sand at 6 mbgl and again at 6.4 mbgl (base not proven) at TP656. A significant number of rubber tyres were encountered at c. 4mbgl at TP656.

Elevated heavy metal concentrations identified in groundwater following recent sampling at Zone 4 were limited to manganese and cadmium. Localised elevated manganese concentrations were reported in leachate samples (BH208 and BH209, maximum concentration, 1,000 ug/l (MBAT PNEC, 276.92 ug/l)) and groundwater wells (BH121 and BH122, at concentrations of 360 ug/l & 580ug/l). Surface water samples taken from the nearby tributary (SW1 (upgradient)) and SW9 (downgradient)) reported manganese concentrations (SW1 at 170ug/l and SW9 at 260ug/l) below the derived MBAT PNEC.

Low level cadmium concentrations were reported at one borehole, BH121 at 0.19ug/l exceeding the EQS of 0.09 ug/l but not the MAC (maximum allowable concentration) of 0.6 ug/l.

Low level cyanide concentrations of 0.012ug/l were reported within the stream to the immediate south/southeast (SW9 - downgradient of zone 4), and lagoon (0.013ug/l) and 0.014ug/l (SW1 - upgradient of zone 4 and offsite). This suggests that elevated background concentrations are present in the surface water and potentially indicates that there is an offsite source.

Organics testing of groundwater and leachate samples did not report any compounds in excess of applicable TSVs. Similarly, inorganics were generally reported at concentrations less than TSVs with the exception of marginally elevated concentrations (260 mg/l) reported for sulphate in leachate sample at BH209.

Reported soil contaminant concentrations in Zone 4 were found to be below the adopted GAC based on a POS (park) end use with the exception of.

- Lead reported at TP653 at 2 mbgl (1,500 mg/kg exceeding the GAC of 1,300 mg/kg).
- PAH compound Dibenz(a,h)anthracene reported at 1.8 and 1.4 mg/kg at trial pit TP611 at 0.5 and 1 mbgl respectively.

Low level hydrocarbon contamination has been reported in soils from trial pits TP653 at 2 & 3 mbgl (total TPH 6,100 & 2,100 mg/kg), TP654 at 1 mbgl (total TPH 5,100 mg/kg), TP654 at 6 mbgl (2,800 mg/kg), TP652 at 3 mbgl (2,100 mg/kg), TP655 at 4 mbgl (1,700 mg/kg), TP659 at 1 mbgl (2,000 mg/kg) and TP656 at 2 mbgl (1,500 mg/kg).

8.5.2. Pathway - Receptors Linkage

The primary migration pathway for the localised manganese contamination within groundwater at Zone 4 is considered to be via groundwater flow within the permeable layers of the superficial deposits with further migration potential towards the nearby surface water receptors. Water environment receptors are considered to be the shallow aquifer (superficial deposits) and surface waters (nearby tributary and connected River Faughan). Where surface water analysis has been completed for the nearby tributary, manganese concentrations were reported below the MBAT PNEC calculated value, therefore the migration via groundwater flow of localised manganese concentrations (BH122) to surface water receptors is not considered to be a current pollutant linkage. Low level hydrocarbon contamination in soils is not resulting in detriment to groundwater or surface water as evidenced by recent groundwater and surface water sampling test results for the tributary to the immediate southeast and the lagoon. On the basis of the current A6 development proposals it is assumed that all waste material will be subject to removal which is likely to result in the removal of a significant source with respect to risk to soils, groundwater and surface water contamination.

A conceptual site model has been developed for Zone 4 and is presented below which identifies the potential sources, pathways and receptors currently present at the site, and thus identify plausible pollutant linkages.

Table 8-4 - Update Conceptual Site Model Zone 4

Contaminant	Contaminant Pathway Receptor		Further Action
Localised manganese in groundwater	➤ Shallow aquifer	Groundwater Surface water (tributary to immediate south)	Nearby surface waters do not indicate impact following recent sampling. Effective removal of waste materials/reduced quality made ground anticipated as part of future A6 enabling works to be considered during future remedial design.
Low level cyanide in surface waters (lagoon and nearby tributary)	 Shallow aquifer Shallow aquifer, offsite migration 	Groundwater Surface water (tributary to immediate south)	Upgradient surface water sampling suggests potential marginal elevated background concentrations. As above effective removal of waste materials/reduced quality made ground anticipated as part of future A6 enabling works to be considered during future remedial design.

8.6. **ZONE 5**

8.6.1. Sources

Source Zone 5 is located in the southwest of CS&G in a similar location to that proposed in the Sirius Report (2017). Ground conditions in the area are characterised by sporadic and inconsistent waste depositions which are likely to be characteristic of infilling of sand and gravel extractions in the area. Made ground where present was typically characterised by general C&D type materials with occasional mixed domestic waste (e.g., BH07, described domestic waste 0.8-2.8 mbgl 2016) and reworked soils generally extending to depths of c.2.5-4 mbgl. Superficial deposits are typically described as fine to coarse sand. Suspected contamination was observed at boreholes BH627 and BH628 following the recent phase of investigation. The suspected contamination was characterised by strong hydrocarbon odours and staining consistent with tarry waste. This staining was observed at depths of between c. 1-2.5 mbgl within the made ground deposits.

Reported contaminant concentrations in groundwater within Zone 5 comprises elevated PCoC including the following:

Heavy metals Iron and manganese were reported at concentrations exceeding relevant TSVs in groundwater and leachate samples with lesser magnitude exceedances reported for zinc also in leachate and groundwater samples.

Low level TPH aromatic fractions were reported at groundwater well BH626 following sampling round 1 (Total TPH at 920ug/l) in addition to Benzene at BH626 at 63ug/l.

PAHs compounds including naphthalene, anthracene and fluoranthene were reported at BH07 and BH626 with the most elevated concentrations reported at groundwater well BH629 (naphthalene at 1,600 ug/l) following the initial sampling round (Round 1, 2022).

Further delineation works were undertaken in the within Zone 5 to characterise the suspected tarry waste deposition which included three additional boreholes (BH662 to BH664) and 4 no. additional trial pits TP648-TP651. Similar PCoCs were reported following sampling Round 2 with most elevated naphthalene reported at BH626 (130 ug/l) and most significant benzene concentrations reported at BH629 (13,000 ug/l). Low level aromatics were reported at BH629, BH629 and BH663B.

Reported contaminant concentrations in soils were in excess of the adopted PoSPark GAC at a number of locations for mid to heavier end aromatic fractions (e.g., BH628 at 2m). Risk to health is considered low at these depths and testing from shallower depths (1 mbgl) did not identify concentrations above respective GACs.

Multiple PAH compound exceedances were reported for determinands Benz(a)anthracene, Benzo(b)fluoranthene, Benzo(a)pyrene and Dibenz(a,h)anthracene at boreholes BH628 and BH629 at various depths. Exceedances were reported at shallower depths <1mbgl, although risk to health is not considered significant based on current land use and restricted access. Most significant Total PAH concentrations were reported in soils sampled at BH628 at 2m (total PAH 79,000 mg/kg and 1m (1,200 mg/kg) and BH629 at 0.8m (1,500 mg/kg). These occurrences will be considered further in the definition source characteristics with respect to observed contaminants in groundwater.

8.6.2. Pathway - Receptors Linkage

The PCoCs identified are BTEX, PAHs and mid to heavier end aromatic fractions which are considered signatures of localised evidence of tarry waste deposition in the area. As stated, elevated heavy metal concentrations are typical for much of the wider site characterised by elevated iron and manganese.

The primary migration pathway for the PCoCs within groundwater is considered to be via groundwater flow within the permeable layers of the superficial deposits with further migration potential towards the nearby surface water receptors. Water environment receptors are considered to be the shallow aquifer (superficial deposits) and surface waters (nearby tributary and connected River Faughan). Observed contaminant concentrations in soils would also suggest that soils are leaching to shallow groundwater and resulting in a detriment to groundwater quality in the area.

A conceptual site model is developed is presented below which identifies the potential sources, pathways and receptors currently present at the site, and thus identify plausible pollutant linkages.

Table 8-5 - Update Conceptual Site Model Zone 5

Contaminant	Pathway	Receptor	Further Action
BTEX, PAHs, TPH, heavy metals in groundwater (dissolved phase)	> Shallow aquifer	Groundwater Surface water (River Faughan)	Further Detailed Risk Assessment to investigate significance of potential pollutant linkages and derive appropriate clean up criteria where applicable.
BTEX, PAHs, TPH in soils	 Direct contact pathways (dermal, ingestion, inhalation) 	Potential future site users & Construction workers	Risk to future site users will be informed by future interaction. Human health risk to be considered further as part of future remediation design.
	Leaching to shallow aquiferShallow aquifer	Groundwater Surface water (River Faughan)	Further Detailed Risk Assessment to investigate significance of potential pollutant linkages and derive appropriate clean up criteria where applicable.

8.7. **ZONE 6**

8.7.1. Sources

Source zone 6 is represented by an area of land to the southeast of CS&G encompassing much of the south eastern portion of the CS&G site. Wates/made ground in this zone are generally described as mixed comprising C&D and domestic waste. The depth of waste infilling is generally between 0.8m (TP642, C&D waste) and 5.0m (BH623, mixed waste), with the greatest thickness shown to be in the eastern portion of the zone. As is characteristic of Zone 5, wastes are not present consistently across the area; with their deposition likely to influenced by former sand and gravel extractions. Waste/Made ground was reported to be absent in the southwest portion (BH101, BH119, TP638) of Zone 6 based on available exploratory logs. Superficial deposits generally comprised of sand and gravelly sand although there were reasonably significant occurrences of peat encountered in this zone.

Contaminant concentrations in leachate and groundwater exceed the adopted TSVs within Zone 6, based on recent monitoring in 2022, as detailed below:

- As is characteristic of the site generally, iron and manganese continue to represent the most frequent and elevated TSV exceedances, present in leachate and groundwater wells. Maximum iron concentrations were reported at leachate well BH625 (62,000 ug/l, monitoring round 2) and maximum manganese at groundwater well BH653 (25,000 ug/l, monitoring round 1). Marginal and more localised exceedances of TSVs were also reported for metals cadmium, nickel and zinc generally within groundwater (cadmium >TSV in leachate well BH202 monitoring round 1, 0.21 ug/l TSV 0.09 ug/l).
- Lower level localised TPH heavier end aliphatic fractions were reported for C16-C21 (BH625, leachate well and BH653, groundwater well) following monitoring round 1 only. A singular low-level exceedance of the aromatic fraction C10-C12 was reported for leachate well BH625 following round 1 only.
- BTEX compounds were generally reported at concentrations less than laboratory LoD with the exception of lower-level benzene reported at BH201 (12 ug/l, groundwater well), BH632 (43 ug/l, groundwater well) and BH625 (19 ug/l, leachate well).
- PAHs reported in groundwater and leachate wells generally reported compound at concentrations less than
 laboratory LoD or less than respective TSVs, with localised exceptions including naphthalene at BH201 (32
 ug/l, groundwater well) and BH625 (110 ug/l reducing to 33 ug/l at monitoring round 2). Lower-level
 exceedances were reported for determinands anthracene and fluoranthene at BH625.
- With regard to inorganics testing predominantly ammonia was reported at concentrations exceeding the adopted TSV (0.3 mg/l) for all but three of the groundwater and leachate samples (BH201 & BH32 groundwater well and BH625 leachate well). Low level cyanide exceedances (BH624S & BH625 leachate, well BH119, BH653 & BH101 groundwater wells) were also reported following monitoring round 1 only. A singular low-level exceedance was reported for chloride at groundwater well BH201 (320 mg/l, TSV 250 mg/l) following sampling round 1 and at 290 mg/l following sampling round 2.

Reported contaminant concentrations in soils within Zones 6 are generally not considered to present a significant risk to health based on a POS (park) end use, with the exception of the following:

• Marginally elevated PAH Dibenz(a,h)anthracene detected between 1.3mg/kg and 1.9mg/kg at BH623 at 1m and 4m depths respectively in excess of the POSpark GAC.

8.7.2. Pathway - Receptors Linkage

Contamination present in this area is generally characterised by lower-level diffuse contamination which is consistent with historical sampling (Sirius 2017). Heavy metals consistent with those encountered across much of the site were detected including iron and manganese. Low level ammonia was detected across much of the area. A potentially more significant occurrence of naphthalene was reported at BH625 following the initial sampling round and at a lesser concentration at BH201 to the immediate northeast. Recent soils sampling at BH625 does not suggest the presence of a significant soil source in the area although low level PAH compounds were reported with

a maximum Total PAH value reported 130 mg/kg for the sample retrieved at 0.5 mbgl.

The primary migration pathway for the PCoCs within groundwater is considered to be via groundwater flow within the permeable layers of the superficial deposits with further migration potential towards the nearby surface water receptors. Water environment receptors are considered to be the shallow aquifer (superficial deposits) and surface waters (nearby tributary and connected River Faughan). Observed contaminant concentrations in soils would also suggest that there is likely to be some contribution from soils leaching to shallow groundwater and resulting in a detriment to groundwater quality in the area.

A conceptual site model is developed is presented below which identifies the potential sources, pathways and receptors currently, and thus identify plausible pollutant linkages.

Table 8-6 - Update Conceptual Site Model Zone 6

Contaminant	Pathway	Receptor	Further Action
PAHs, heavy metals, ammonia in groundwater (dissolved phase)	> Shallow aquifer	Groundwater Surface water (tributary & River Faughan)	Further Detailed Risk Assessment to investigate significance of potential pollutant linkages and derive appropriate clean up criteria where applicable.
PAHs, TPH in soils	 Direct contact pathways (dermal, ingestion, inhalation) 	Potential future site users & Construction workers	Risk to future site users will be informed by future interaction. Human health risk to be considered further as part of future remediation design.
	Leaching to groundwaterShallow aquifer	Groundwater Surface water (tributary & River Faughan)	Further Detailed Risk Assessment to investigate significance of potential pollutant linkages and derive appropriate clean up criteria where applicable.

8.8. **ZONE** 7

8.8.1. **Sources**

Source zone 7 is represented by an area of land in the south-central area of CS&G which was used as the main yard of the former sand and gravel extraction at the CS&G site. Waste/made ground depositions in this are generally limited to lands to the immediate east and southeast and south of the yard and are characterized by generally C&D wastes present to depths of c.3.5 mbgl. Superficial deposits comprise sandy silts, gravel and sand.

Contaminant concentrations in leachate and groundwater were reported in excess of adopted TSVs within Zone 6 following recent sampling as detailed below:

• As is characteristic of the site generally, iron and manganese continue to represent the most frequent and elevated TSV exceedances, present in leachate and groundwater wells. Maximum iron concentrations were reported at groundwater well BH205 (21,000 ug/l, monitoring round 2) and maximum manganese at groundwater well BH620 (8,000 ug/l, monitoring round 1). Marginal and more localised exceedances of TSVs were also reported for metals cadmium, nickel and zinc generally within groundwater.

- Organics testing typically did not detect determinands above laboratory limits of detection with a number of localised exceptions. A singular aromatic fraction was reported at well BH619D, groundwater well (aromatic C21-C35, 2,500 ug/l) following the initial sampling round and at groundwater well BH661 for benzene (79 ug/l) following the second monitoring round. Monitoring well BH661 was progressed as part of the phase 2 investigation and was not sampled during the initial monitoring round.
- With regard to inorganics determinand concentrations were generally not detected above relevant TSVs with the exception of a localised cyanide concentration reported at groundwater well BH205 (0.016 mg/l, TSV 0.001 mg/l) following the initial monitoring round.

Reported contaminant concentrations in soils within Zones 7 were not reported in excess of the adopted GAC.

8.8.2. Pathway - Receptors Linkage

Contamination present in this area is consistent with those identified across the site with respect to heavy metals and organics testing which has generally not identified a significant or potentially significant impacts to groundwater.

The primary migration pathway for the PCoCs within groundwater is considered to be via groundwater flow within the permeable layers of the superficial deposits with further migration potential towards the nearby surface water receptors. Water environment receptors are considered to be the shallow aquifer (superficial deposits) and surface waters (nearby tributary and connected River Faughan). Observed contaminant concentrations in soils would also suggest that there is unlikely to be a significant soil source present.

A conceptual site model is developed is presented below which identifies the potential sources, pathways and receptors currently, and thus identify plausible pollutant linkages.

Table 8-7 - Update Conceptual Site Model Zone 7

Contaminant	Pathway	Receptor	Further Action
Heavy metals in groundwater (dissolved phase)	➤ Shallow aquifer	Groundwater Surface water	Further Detailed Risk Assessment to investigate significance of potential pollutant linkages and derive appropriate clean up criteria where applicable.

8.9. **ZONE** 8

8.9.1. Sources

Zone 8 is located in the central area of CS&G and is located generally down hydraulic gradient (based on initial groundwater flow modelling (refer to Figure 6)) of the area of tarry waste deposition noted at CIW to the east of the Mobuoy Road. The exceeding determinands observed in groundwater in this area following recent and historical (MPRT EMP monitoring data) are consistent with tarry waste signatures to include for example BTEX and PAH compounds. It is considered likely that the observed tarry waste signatures observed in groundwater in central CS&G are attributable to migration form the CIW to the immediate east.

Wastes/made ground in the area are characterised by mixed organic, occasional domestic and C&D wastes typically extending from depths 3 to 6 mbgl. Superficial deposits are generally characterised by silty sands and gravel with occasional clay inclusions at depths e.g., BH409 at the western boundary recorded a sandy gravel as present from 8.5 to 8.7 mbgl (base not proven).

Heavy metal occurrences are consistent with those observed generally at site scale with iron and manganese continuing to represent the most significant and frequent exceedances within leachate and groundwater wells. Lower magnitude and frequency exceedances were reported for determinands boron, nickel, cadmium and zinc following both recent monitoring events.

Organics testing identified elevated BTEX (predominantly benzene), aromatic TPHs and elevated PAHs (predominantly naphthalene) at groundwater wells BH404, BH402, BH402S (leachate well) and BH206 following the initial sampling round and at BH404, BH410, BH402 and at BH403 following the second sampling round. The maximum benzene concentration reported following round 1 was at BH402 at 6,400 ug/l and also at BH402 following round 2 (9,000 ug/l).

Naphthalene concentrations were generally reported at similar monitoring wells to that of benzene although maximum concentrations were reported at different locations. Maximum naphthalene concentrations were reported at groundwater wells BH206 (50 ug/l) following round 1 and at BH410 (89 ug/l)

VOC and SVOC analysis generally identified similar PCoCs indicative of coal tar signatures including PAHs and various aromatic derivatives.

Low level exceedances of ammonia were reported following round 1 and 2 sampling with all concentrations generally reported at concentrations <1 mg/l with the exception of BH633 (groundwater well) following the round 1 sampling (reported at 1.2 mg/l). Chloride concentrations were reported at three groundwater and one leachate well following round 1 sampling with a maximum concentration reported at groundwater well BH107 (980 mg/l, TSV 250 mg/l). Localised low-level sodium and sulphate exceedances of adopted TSVs were reported following both recent monitoring events.

Reported contaminant concentrations in soils within Zone 8 were not reported in excess of the GAC for a POS (park) end use. Asbestos containing materials (ACMs) were identified in one sample, BH634 at 3 mbgl which was described as a chrysotile in the form of fibre clumps. Following quantification asbestos content was reported at 0.015%. A sample tested at 1 mbgl at this location did not identify the presence of ACMs as did a sample analysed at depth (5 mbgl).

A review of soils analytical data for monitoring wells progressed following the recent phase of works has not identified a significant soil source with respect to the primary observed organic contaminants. The maximum reported Total TPH in soils tested was reported at BH651 at 5.5 mbgl (4,500 mg/kg) and at BH634 at 1mbgl at 1,800 mg/kg with samples tested generally not reporting TPH fractions above relevant laboratory LoDs.

BTEX and PAH compound concentrations similarly are reported at low concentrations or concentrations less respective laboratory LoDs.

8.9.2. Pathway - Receptors Linkage

The principal pathway for dissolved phase contaminant migration is considered to be via shallow groundwater flow with the sand and gravel aquifer system. A number of reported contaminant concentrations are considered to present a potential risk to shallow groundwater and offsite surface waters via shallow groundwater migration. Surface water sampling to date has not identified significant impacts to downgradient surface waters and the associated risk is currently considered low, however it is recommended risk modelling consider future risk to ensure ongoing protection.

Following a review of soils analytical data collated following the recent phase a significant or potentially significant soil source for observed organic contaminants has not been identified with respect to the primary observed organic contaminants in groundwater. On the basis of recent groundwater flow modelling, observed contaminant characteristics and the absence of a significant or potentially significant soil source it is reasonable to assume that the observed organic contaminants observed at (TPHs, BTEX and PAHs) are likely to be attributable to the tarry waste depositions observed at the CIW site. Whilst the absence of significant soil source is considered a reasonable assumption based on the available site data it should be noted however that the recent soils assessment for the area is limited to 26 no. soils samples collected from trial pits and boreholes progressed in the area following the recent phase of works. This zone like much the Mobuoy site has been subject to uncontrolled waste depositions of varying types. A review of relevant exploratory logs for all phases of investigation to date including the BH01, BH200 and BH400 series logs also do not support the presence of a potentially significant soil source for the organic contaminant types observed in this zone further supporting the hypothesis of migration from source zone 3 to the east.

A conceptual site model is developed is presented below which identifies the potential sources, pathways and receptors assumed for this zone.

Table 8-8 - Update Conceptual Site Model Zone 8

Contaminant	Pathway	Receptor	Further Action
Heavy metals, BTEX, PAHs, TPHs and low- level ammonia and groundwater	➤ Shallow aquifer	Groundwater Surface water (River Faughan)	Further Detailed Risk Assessment to investigate significance of potential pollutant linkages and derive appropriate clean up criteria where applicable.

8.10. **ZONE** 9

8.10.1. Sources

Source Zone 9 is represented by an area of land to the north of CS&G which is dominated by a large body of surface water referred to as a lagoon. A discharge point for this lagoon is located adjacent to the river Faughan c. 295m to the north of main water body. Five no. cable percussion wells were progressed within this water body to assess waste deposition beneath. Evidence of deposition was reported at two of the locations BH642 (1-1.5 mbgl blocks, concrete in a silty clay matrix) and at BH643 from 0.5 - 2.5 mbgl described as plastic sheeting and timber in a

clayey gravelly silt.

Wastes/made ground external to the lagoon area are characterised by predominantly C&D wastes with occasional occurrences of more domestic type or municipal type waste. Depth of infilling varied from c. 2-4 mbgl in the northern area along the eastern boundary of lagoon with deeper deposition depth evident to the south and central area at c. 5 mbgl (BHs 219, 220 & 635). Drift deposits in this area of the site are characterised by silt, sands and gravel.

Contaminant concentrations in groundwater observed following the recent sampling rounds is consistent with general site conditions.

Heavy metal exceedances were generally limited to iron and manganese which represent the most frequent and elevated TSV exceedances, reported in leachate and groundwater wells. Maximum concentrations for both determinands were reported in leachate wells, with maximum iron reported at leachate well at BH635S 37,000 ug/l following the initial sampling round. The maximum manganese concentration was reported at groundwater/leachate well BH656, 7,100 ug/l following the second sampling round. A localised elevated zinc concentration was reported at groundwater/leachate well BH656 following the second sampling round (1,800 ug/l) and at groundwater well BH657 (160 ug/l).

Organics testing typically did not detect determinands above laboratory limits of detection or where present did not exceed adopted TSVs following both recent sampling events with the exception of low level mid to heavier end aromatic fractions (C10-C12 and C12-C16) reported at 220 ug/l and 110 ug/l respectively which was reported at leachate well BH218 following the initial sampling round.

With regard to inorganics determinand concentrations reported ammonia concentrations represented the most frequent TSV (0.3 mg/l) exceedances with generally low-level exceedances, generally reported within leachate wells. The maximum reported concentration was reported at leachate well BH218 (11 mg/l) following the initial sampling round. Low level cyanide concentrations were reported in a number of groundwater and leachate wells following the initial sampling round. A localised exceedance of the adopted TSV for chloride and sodium were reported at leachate well BH218 following the initial sampling round.

Reported contaminant concentrations in soils within Zones 9 were generally not reported in excess of the adopted PoSPark GAC with the exception of the heavy metal lead reported at TP635 at 4 mbgl, 4600 mg/kg.

8.10.2. Pathway - Receptors Linkage

Contamination present in this area is consistent with that identified generally across the site with respect to heavy metals and organics testing with heavy metals and low-level ammonia representing the primary contaminants of concern (PCoCs).

The primary migration pathway for the PCoCs within groundwater is considered to be via groundwater flow within the permeable layers of the superficial deposits with further migration potential towards the nearby surface water receptors. Water environment receptors are considered to be the shallow aquifer (superficial deposits) and surface waters (nearby tributary and connected River Faughan).

As stated, elevated lead concentrations were reported at TP635 at 4mbgl. Groundwater sampling from monitoring

groundwater/leachate well BH656 progressed adjacent to TP635 did not identify elevated lead concentrations in groundwater. Lower-level heavier end TPH concentrations were reported in soils analysed at TP635 at 3 and 4 mbgl. Low level TPH concentrations were reported at one location at low levels BH218 following the initial monitoring round with general deposition likely to be contributing to observed generally low-level contaminant concentrations observed.

A conceptual site model is developed is presented below which identifies the potential sources, pathways and receptors currently, and thus identify plausible pollutant linkages.

Table 8-9 - Update Conceptual Site Model Zone 9

Contaminant	Pathway	Receptor	Further Action
Heavy metals, low level TPH, low level ammonia in groundwater (dissolved phase)	Shallow aquifer	Groundwater Surface water (Lagoon/River Faughan)	Further Detailed Risk Assessment to investigate significance of potential pollutant linkages and derive appropriate clean up criteria where applicable.

9. ADDITIONAL SITE INVESTIGATION AND MONITORING WORKS CONCLUSIONS

Following the completion of the most recent phase of site investigation and monitoring works in May 2022 and update to the site's CSM's the source zones have been qualitatively risk rated. Where risk rating is assumed to be moderate, moderate to high or high these potential pollutant linkages (PPLs) will be considered further as part of the DQRA. This approach is consistent with and updates the previous CSMs developed via the Sirius DQRA (2017).

Table 9-1 - Qualitative Assessment of PPLs Requiring Further Assessment via DQRA

Source Zone	Pathway	PCoCs1	Risk Rating	Rationale
Source Zone 1 & 2	Shallow Aquifer Transport	level TPH, ammonia, & High		Area of significant infilling. Impacts noted to leachate and groundwater. Potential for migration toward surface water.
Source Zone 3	Shallow Aquifer Transport	Heavy metals low BTEX, PAHs, TPH, ammonia	High	Area of tarry waste, significant visual/olfactory evidence of contamination. Impacts to soils and groundwater evident following testing.
Source Zone 4	Shallow Aquifer Transport	Heavy metals	Low	Nearby surface waters do not indicate significant impact following recent sampling. Effective removal of waste
	Surface water (Tributary)	Cyanide	Low to Moderate	materials/reduced quality made ground anticipated as part of future A6 enabling works to be considered during future remedial design.
Source Zone 5	Shallow Aquifer Transport	BTEX, PAHs, High TPH,		Localised evidence of tarry waste deposition and indicative signatures in soils and groundwater. Adjacent to the River Faughan
Source Zone 6	Shallow Aquifer Transport	Heavy metals, BTEX, PAHs, TPH, ammonia	Moderate	Lower-level localized impacts in soils and groundwater.
Source Zone 7	Shallow Aquifer Transport			CS&G processing this area. General PCoCs iron and manganese present site wide
Source Zone 8	Shallow Aquifer Transport	Heavy metals, BTEX, PAHs, TPHs and low- level ammonia	High	Highly elevated BTEX and PAH compounds in groundwater. Adjacent to the River Faughan
Source Zone 9	Shallow Aquifer Transport	Heavy metals, low level TPH, low level ammonia	Moderate	Adjacent to the River Faughan

The CSMs are considered reasonable and extensive additional site characterisation, sampling and monitoring works have significantly reduced uncertainty around assumptions with regard to the site's hydrogeological setting. The CSMs will be subject to review following completion of the DQRA.

Additional site investigations have assisted in the definition of relevant source areas however the nature of the uncontrolled depositions which have occurred over a prolonged period mean the CSMs presented should not be considered conclusive but may be subject to update during site development.

9.1. A6 INTEGRATION AND CONCEPTUAL SITE MODELS

The current A6 Roads Scheme proposals need to be considered as part of future remediation of the site and the Mobuoy Remediation ICT have continued with a process of engagement with the A6 ICT to make sure that an integrated and collaborative approach is being taken to the benefit of both projects. An overlay of the proposed A6 Scheme is presented on Figure 4. This highlights several areas of overlap between the site and the Department for Infrastructure (DfI) Roads A6 scheme vesting boundary, and in the proposed highway.

The proposed dualling road is expected to enter the site around the eastern periphery. More specifically the dualling road overlaps with the southern and eastern boundary of the CIW site and passes over the Mobuoy Road at a location to the north of CS&G site boundary. Works are also proposed which will see the partial realignment and widening of the existing Mobuoy Road which bisects the CIW and CS&G sites.

Current scheme proposals are unlikely to significantly affect the current CSMs with the potential exception of Zone 4 as it is likely to see significant removal of deposited wastes; and thus, effectively reducing or mitigating what are generally lower risks observed to ground and surface water (tributary to the immediate south). It is envisaged that future remediation design will remain cognisant to A6 scheme proposals.

It is considered unlikely that the current proposals will significantly alter the existing groundwater regime and potential contaminant migration pathways. It is assumed that the scheme drainage works will be engineered to minimise potential interaction with the existing groundwater regime.

Future remediation design will require further consideration of the A6 proposals, and it is expected that the ongoing engagement between the ICTs will seek to ensure an integrated and symbiotic approach.

9.2. CIW FORMER YARD

Recent and historical site investigations have not identified significant or potentially significant contaminants of concern underlying the former CIW yard area. As a result, lands underneath the yard are not considered further within this risk assessment. However, it is noted that anecdotal information and available aerial imagery does suggests significant surface waste depositions to the immediate northeast and northwest of the main yard area and characterisation is recommended of these materials to inform future management and remediation design.

10. WATER DETAILED QUANTITATIVE RISK ASSESSMENT

10.1. INTRODUCTION

The working CSM, based upon groundwater monitoring from Rounds 1 and 2 in 2022 has identified potentially unacceptable contaminant linkages to the River Faughan through migration within groundwater and surface water courses of dissolved-phase contaminants arising from the waste materials deposited on the site. Detailed Quantitative Risk Assessment of these pollutant linkages is therefore required.

10.2. MODELLING RATIONALE

Tetra Tech has adopted the same modelling approach taken by Sirius in their 2017 DQRA but with the benefit of a significantly increased data set which has enabled a much-improved understanding of ground conditions, associated contaminant migration pathways, and contaminant types. This information has enabled the refinement and update of the site conceptualisation which has informed the current modelling approach. Recent source concentrations deriving from groundwater and surface water monitoring have been adopted in modelling iterations, following sampling of the much-increased density of monitoring positions from investigations since the 2017 DQRA.

As stated in the Sirius 2017 DQRA:

"The site is large and complex and source areas contain a range of chemical substances including some (e.g., iron and manganese) which are both present at background concentrations and, given their hydrochemical behaviour difficult to model effectively using conventional risk modelling techniques that are based on simplified partitioning assumptions. In addition, several potential transport pathways via both groundwater and surface water are present.

Due to its history, geology and environmental setting, the site cannot be considered as a single source area but rather needs to be assessed as a group of individual source areas within a wider site together with the complex interaction of different potential transport pathways."

Sirius adopted the following modelling approach for the site:

- 1. Detailed quantitative risk assessment of specific source areas in accordance with the Environment Agency's Remedial Targets Methodology (RTM) for assessing risk to controlled waters. The assessment was undertaken using the ConSim Model v2.5 to complete complex level 3a groundwater modelling. Groundwater source concentrations for contaminants exceeding Tier 1 Screening Criteria taken forward into ConSim modelling. Contaminant source concentrations were set to an arbitrary figure of 10mg/L to derive attenuation factors for each contaminant in each source zone. These attenuation factors were then used to derive site specific assessment criteria (SSAC) for groundwater by multiplying the groundwater TSVs. Soil and leachate (Level 1 and Level 2) targets were then derived for the site by back calculation, according to the Environment Agency remedial target methodology in Excel.
- Additionally, water balance modelling was then undertaken to determine separate SSAC, based upon contaminant fluxes in groundwater and surface water, compared with volumetric flow rates within the river

Faughan. Using detailed flow data for the river Faughan, it is possible to calculate the maximum load of each potential contaminant of concern that could enter the River before the concentration threshold for that contaminant would be breached within the surface water. Based on the known flux rate of each contaminant, it is also possible to calculate the concentration (site specific assessment criteria) of each contaminant within each source that would not result in such a breach. In essence, the water balance modelling constitutes a Level 4 assessment under the remedial target methodology.

To assess potential risks posed by on-site contaminants to surface water and groundwater, the risk assessment tool ConSim (v2.5) has been used. The previously completed Sirius DQRA was conducted in ConSim, with additional water balances to account for dilution within the river Faughan.

The ConSim package was developed by Golder Associates in conjunction with the EA and is a probabilistic tool, which is able to consider multiple contaminants in a single model run and has the advantage that the input parameters are described by a range of values within a defined probability distribution function, rather than by just single values. The ConSim model can then be run for multiple iterations (usually 1001) and for each model iteration, the software selects an input value for each parameter from within the defined range(s).

This model is considered the most appropriate owing to its ability to consider inherent variation and uncertainty within the input criteria, as well as the probabilistic way in which it presents the predicted results (based on confidence limits rather than single predicted concentrations). This is especially appropriate for highly complex sites such as Mobuoy, where ground conditions across the site can be highly variable, and a wide range of site-specific values have been obtained from successive rounds of site investigation.

The quantitative risk assessment assumes the identified and potential sources of contamination, receptors, and pathways identified in the hydrogeological conceptual model discussed in Section 9 of this report.

10.3. IMPLEMENTING THE REMEDIAL TARGETS METHODOLOGY MODEL

Tetra Tech have implemented the same RTM assessment as Sirius in their 2017 DQRA. RTM Level 3a assessments have been carried out for the identified contaminants of concern to establish source zone specific remediation criteria for soils, leachate and groundwater which will be protective of identified water receptors.

The model was implemented using the ConSim model v.2.5, which was developed to follow the RTM process and is a probabilistic model that allows data inputs to be defined in terms of statistical probability density functions (PDFs). Probabilistic modelling allows the calculation to incorporate the effects of natural variability and uncertainty within the dataset, producing a statistical range of potential outcomes. These outcomes are given at a range of statistical confidence levels and the range of variability within the predicted level of impact can be assessed. An appropriate level of conservatism can then be applied to the interpretation of the results considering the level of confidence in the input parameters used.

Results of ConSim modelling have initially been assessed at a time period of 10,000 years which is considered representative of worst-case, long-term equilibrium conditions. Within the RTM approach (Environment Agency, 2006) it is acceptable to consider the level of risk within a wider environmental context where travel times exceed

1,000 years.

If a probability density function is used to describe the source zone contaminant concentration, then ConSim does not directly calculate a site-specific assessment criterion (SSAC). For this reason, two models have been run for each source zone. The first model has been run using site groundwater concentration data input as a PDF to assess the predicted long-term impacts at the receptor from the current condition of the source. The second model has been run using a single arbitrary concentration of 10mg/l for all contaminants to establish the ratio between the source groundwater concentration and the predicted impact (attenuation factor) for each contaminant. The attenuation factor, which is independent of the input source concentration, can then be used to calculate separately the SSAC for each source zone at the chosen confidence level.

Attenuation factors derived from the level 3 groundwater assessment in ConSim have been used as the basis for calculation of level 2 (soil leachate) and level 1 (soil) targets using an Excel spreadsheet.

The ConSim modelling is considered to be inherently extremely conservative, as it is not possible to model a declining groundwater source within ConSim Level 3a assessment. Each source area therefore acts as a continuous groundwater source, with predicted concentrations either continuing to rise to the input source concentration until the 10,000-year cut off (dependant on retardation) or equilibrating below the source concentration following the impacts of degradation, dispersion and dilution.

10.4. PARAMETERISATION

10.4.1. Source Areas and Contaminants of Concern

Source Areas were determined following a review of recent groundwater monitoring data (Round 1 and 2) and based upon the site zoning provided in Table 11-1. Long term monitoring data provided as part of the NIEA's quarterly monitoring programme was reviewed at Chapter 7 of this report and has been used to support the source zone characterisation. Where contaminant concentrations were found to exceed Tier 1 Screening Values, contaminant were brought forwards into ConSim modelling as source on a zone-by-zone basis. Source area concentrations were input into ConSim as an appropriate distribution based on minimum, average and maximum concentrations of exceeding contaminants.

The modelled source areas largely conform to the site zoning numbering given in table 49, with some rationalisation of zones occurring (e.g., the combination of Source Areas 3 and 8), or the discarding of some Zones – e.g., Zone 4 was not brought forwards into modelling as Source Area 4 due to overall groundwater concentrations not meeting the tier 1 screening threshold for modelling. The extent of source areas is based upon combining the extent occupied by the exceeding boreholes within each zone.

Source Areas and their modelled contaminants of concern are presented within Table 10-1.

Table 10-1 - Modelled Source Areas

Source Area	Contaminants of Concern	Input concentrations (mg/L)
Source Area 1,2,3	Arsenic Boron Copper Mercury Nickel Zinc Aromatic EC10 - EC12 Toluene Naphthalene Ammonia Chloride Cyanide	TRIANGULAR(0.00036,0.011,0.11) TRIANGULAR(0.018,0.615,2.6) TRIANGULAR(0.00056,0.0053,0.031) UNIFORM(0.000025,0.00017) TRIANGULAR(0.00088,0.0296,0.17) TRIANGULAR(0.004,0.029,0.13) TRIANGULAR(0.0005,0.28,0.42) UNIFORM(0.001,0.09) TRIANGULAR(0.00049,0.025,0.23) TRIANGULAR(0.15,2.56,16) TRIANGULAR(19,165,750) UNIFORM(0.0025,0.013)
Source Area 3,8 (Note: Tarry waste impacted area within Source 3 and Source 8)	Boron Mercury Nickel Zinc Aromatics EC5 -7 Aromatics EC8 -10 Aromatics EC10 -12 Aromatics EC12 -16 Aromatics EC12 -16 Aromatics EC21 -35 Benzene Toluene Ethylbenzene Naphthalene (aq) Anthracene (aq) Fluoranthene (aq) Ammonia	TRIANGULAR(0.31,0.76,1.3) UNIFORM(0.000025,0.00008) TRIANGULAR(0.0038,0.022,0.06) TRIANGULAR(0.0031,0.85,11) TRIANGULAR(0.11,0.263,0.75) TRIANGULAR(0.15,1.05,6.4) TRIANGULAR(0.08,1.32,5.5) TRIANGULAR(0.01,0.92,4.5) TRIANGULAR(0.021,0.096,0.22) TRIANGULAR(0.072,0.083,0.094) TRIANGULAR(0.017,3.2,9.7) TRIANGULAR(0.015,0.34,1.4) TRIANGULAR(0.015,0.34,1.4) TRIANGULAR(0.00098,0.38,1.5) TRIANGULAR(0.00098,0.38,1.5) TRIANGULAR(0.00084,0.001,0.0023) TRIANGULAR(0.00084,0.001,0.0023) TRIANGULAR(0.11,0.25,0.35)
Source Area 5	Cadmium Nickel Zinc Aromatic EC5 - 7 Aromatic EC10 - 12 Aromatic EC12 -16 Aromatic EC16 -21 Benzene Toluene Ethylbenzene Naphthalene Anthracene Fluoranthene Ammonia	UNIFORM(0.00011,0.00025) TRIANGULAR(0.0042,0.0103,0.015) TRIANGULAR(0.0075,0.06225,0.12) SINGLE(0.036) TRIANGULAR(0.037,0.1365,0.31) UNIFORM(0.041,0.34) UNIFORM(0.029,0.1) TRIANGULAR(0.063,4.47,13) TRIANGULAR(0.0077,0.22,0.62) TRIANGULAR(0.011,0.3,1.6) TRIANGULAR(0.0011,0.3,1.6) TRIANGULAR(0.00048,0.0013,0.0024) TRIANGULAR(0.00048,0.0014,0.0025) TRIANGULAR(0.000075,0.0005,0.0011)
Source Area 6	Cadmium Nickel Zinc Benzene Naphthalene Chloride Ammonia Cyanide	UNIFORM(0.00013,0.00093) TRIANGULAR(0.0021,0.0091,0.026) TRIANGULAR(0.0039,0.021,0.04) UNIFORM(0.0083,0.043) TRIANGULAR(0.00025,0.0073,0.032) TRIANGULAR(28,118,320) TRIANGULAR(0.24,3.47,13) UNIFORM(0.01,0.016)

Source Area	Contaminants of Concern	Input concentrations (mg/L)
Source Area 7	Cadmium Nickel Zinc Toluene Cyanide	TRIANGULAR(0.00013,0.0003,0.00062) TRIANGULAR(0.00055,0.0077,0.025) TRIANGULAR(0.0026,0.0462,0.16) UNIFORM(0.001,79) UNIFORM(0.0025,0.016)
Source Area 8	Cadmium Nickel Zinc Chloride Ammonia	UNIFORM(0.000055,0.0002) TRIANGULAR(0.0015,0.023,0.055) TRIANGULAR(0.0053,0.035,0.093) TRIANGULAR(47,297,980) TRIANGULAR(0.16,0.41,1.2)
Source Area 9	Nickel Zinc Ammonia Cyanide	TRIANGULAR(0.0009,0.0046,0.023) TRIANGULAR(0.003,0.028,0.16) TRIANGULAR(0.075,0.235,0.49) UNIFORM(0.0055,0.011)

10.4.2. Geology and Hydrogeology

The geological and hydrogeological data used in the model together with the selected probability density functions used in ConSim where relevant are presented in Table 10-2 below. Wherever possible, site-specific values have been adopted. A negative correlation between hydraulic gradient and hydraulic conductivity, and a positive correlation between porosity and hydraulic conductivity were applied within the ConSim models.

Groundwater flow direction within the shallow aquifer has been determined to be towards the west in the direction of the River Faughan, which is consistent with the available monitoring data from site. Local variations in groundwater flow direction are apparent, although the dominant control ism the river. Flow pathways within the models have therefore been set as the shortest distance from the source areas to the River Faughan, with groundwater flow normal to the closest river section.

Table 10-2 - Geological and Hydrogeological Input Parameters

Parameter	Probability Density Function	Units	Values	Justification
Infiltration	Triangular	mm/year	375, 520, 760	Range between 30% and 60% of total precipitation. Estimated from MORECS data and surface cover.
Aquifer Thickness	Uniform	m	3.5, 8	Likely range based on SI data
Aquifer Dry Bulk Density	Uniform	g/cm3	1.64, 2.23	Range of site-specific testing on shallow aquifer strata

Parameter	Probability Density Function	Units	Values	Justification
Fraction of Organic Carbon	Normal	fraction	0.00525, 0.00547	Based on aquifer specific data. Normal distribution likely to be representative of this parameter. (Mean and standard distribution values quoted).
Hydraulic Conductivity	Log Triangular	m/s	2.6E-6, 5.8E05, 1.7E-04	40th, 60th and 75th percentiles of range of site measurements. Excludes extreme low and high values. Corroborates groundwater flows predicted by site water balance models.
Effective Porosity	Triangular	fraction	0.159, 0.24, 0.37	Minimum, Average and Maximum values based on geotechnical testing of shallow aquifer soils
Hydraulic Gradient	Uniform	gradient	0.0019, 0.02	Range of values calculated from groundwater elevation data.
Longitudinal Dispersivity	Single Value	m	various	Set at 10% of transport distance as per RTM recommendations
Lateral Dispersivity	Single Value	m	various	Set at 1% of transport distance as per RTM recommendations
Correlation: Porosity to Hydraulic conductivity	Single Value	N/A	+0.75	To account for where probabilistic modelling selects high porosity value; high conductivity then appropriate.
Correlation: Hydraulic conductivity to Hydraulic Gradient	Single Value	N/A	-0.50	To account for where probabilistic modelling selects high conductivity value; low gradient then appropriate.

The input parameters presented in Table 10-3 have been used to describe the physico-chemical properties of each contaminant of concern modelled. References for each contaminant specific parameter are provided below the table. Half-life values for TPH fractions have been sourced for 'surrogate' compounds (i.e., those that have equivalent molecular weights to the individual fractions) where fraction-specific data were not available. No degradation of metals and other inorganic contaminants was included within the model.

The model has been run such that degradation of contaminants will take place within the dissolved phase only. This is a conservative modelling option in accordance with the RTM guidance given that the source of the environmental half-life data used for parameterisation includes 'worst-case' values derived from a review of measured field degradation rates. Given the shallow aerobic nature of the aquifer down-gradient of specific source areas it is considered reasonable to assume that biodegradation of hydrocarbons and ammonia will occur in the sub-surface.

Compliance criteria (target concentrations) are based on the TSVs detailed in Section 7 and Appendix 13 of this report.

Table 10-3 - Summary of Contaminant Specific Input Parameters

Contaminant of Concern	Henry's Law Constant (H') Dimensionless	Organic Carbon Partition Coefficient (Koc) I/kg	Environmental half-life (years)	TSV (mg/L)	
Metals					
Arsenic	N/A	500 (K _d)	N/A	5.00E-02	
Boron	N/A	74 (K _d) ¹	N/A	1.00E+00	
Cadmium	N/A	3.7,74,1500, Triangular (K _d)	N/A	9.00E-5	
Copper	N/A	100 (K _d)	N/A	3.49E-02	
Zinc	N/A	38 (K _d)	N/A	3.72E-02	
Nickel	N/A	500 (K _d)	N/A	1.50E-02	
Mercury	N/A	450 –1500 (K _d)	N/A	7.00E-05	
PAH					
Naphthalene	6.62E-03	6.45E+02	0.55 – 2.7	2.00E-03	
Fluoranthene	6.29E-05	1.98E+04	3.1 - 7.8 ¹	6.30E-06	
Anthracene	7.80E-05	2.09E+04	2.6 - 7.9 ¹	1.00E-04	
BTEX					
Benzene	1.16E-01	6.70E+01	0.27 – 1.36	1.00E-02	
Toluene	1.15E-01	2.04E+02	0.14 – 1.2	7.40E-02	
Ethylbenzene	1.39E-01	4.46E+02	0.55 – 2.2	3.00E-01	
ТРН					
>C5 to C7 Aromatic	1.16E-01	6.7E+01	0.27 – 1.36	1.00E-02	
>C8 to C10 Aromatic	2.53E-01	1.59E+03	0.56 – 4.8	9.00E-02	
>C10 to C12 Aromatic	7.22E-02	2.51E+03	0.56 – 4.8	9.00E-02	
>C12 to C16 Aromatic	1.26E-02	5.01E+03	1.09 – 2.52	9.00E-02	
>C16 to C21 Aromatic	6.95E-04	1.41E+04	1.09 – 2.52	9.00E-02	

Contaminant of Concern	Henry's Law Constant (H') Dimensionless	Organic Carbon Partition Coefficient (Koc) I/kg	Environmental half-life (years)	TSV (mg/L)	
>C21 to C35 Aromatic	2.48E-05	1.26E+05	1.09 – 2.52	9.00E-02	
Others					
Ammoniacal Nitrogen*	7.8E-05	0.5 (K _d)	1 – 6	3.00E-01	
Chloride	2.08	0 (K _d)	N/A	2.50E+02	
Free Cyanide	N/A	204 ²	N/A	1.00E-03	

Physico-chemical data sourced from Environment Agency (P5-080/TR3, 2009, and EA-SC050021/SR7, 2008), the ConSim database, TPHCWG (Vol.3), LQM/CIEH GAC, 2nd Edition (2009), and the RBCA Toolkit database unless otherwise specified. For TSV see report text.

¹⁻ Alberta Government: Soil Remediation Guide for Boron; <u>ISBN 978-1-4601-2655-4</u>

²⁻ USEPA; Ambient Water Quality Criteria for Cyanide - 1984. p. 1 US EPA 440/5-84-028

11. WATER BALANCE MODELLING

11.1.1. Introduction

To examine the relative impacts of potential controlled water contaminant linkages associated with the site, an analytical water balance model has been developed based on the CSM. Where possible methods and data sources for the model follow those recommended within SNIFFER Publication 09241 "Derivation of a Methodology for Groundwater Recharge Assessment in Scotland and Northern Ireland", 2003.

Similar to the RTM (Remedial Targets Methodology) modelling, Tetra Tech has followed the same approach as Sirius in the water balance modelling, with updated contaminant concentrations and source areas based upon recently conducted groundwater monitoring rounds.

This model has been used to estimate relative concentrations within surface water channels and contaminant flux for the underlying shallow aquifer under existing site conditions. Calculations have also been performed to derive site-specific remediation criteria that are protective of the River Faughan.

It is important to note that the water balance model does not consider attenuation processes such as dilution, dispersion and degradation, which are modelled within ConSim. The water balance model is therefore conservative when assessing source areas that are not located immediately adjacent to the receptor. Consideration of the level 3 transport processes can be added to the model based on the outputs of the ConSim modelling where relevant to derive site specific assessment criteria, as discussed below.

11.1.2. Data Sources

The water balance model aims to represent how water moves through the site. The superficial deposits at the site provide a pathway for contaminant transport across and away from the site. This is an update to the previous Water Balance Modelling completed by SIRIUS as part of the 2017 DQRA. A conceptual representation of the water balance model is shown at inset Figure 12.1, modified from the SIRIUS, 2017 with the removal of the pathway between the lagoon and the tributary stream

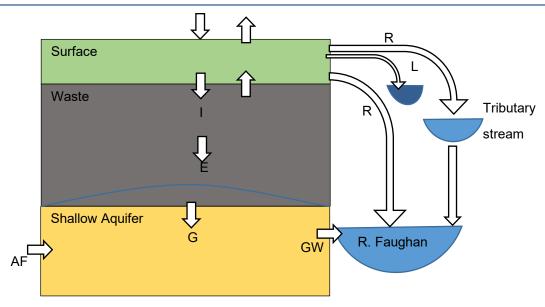


Figure 12.1. - Illustrative schematic of water balance model

The model has been used to estimate the relative concentrations of contaminants of concern within surface water channels and quantify the contaminant flux for the underlying shallow aquifer. The model input parameters have been updated to take account of the most up to date information and existing site conditions. Calculations have been performed to derive site-specific remediation criteria that are protective of the River Faughan.

The water mass balance model (Excel spreadsheets) is presented at Appendix 15. The model comprises hydrological inputs, hydrogeological inputs, and background contaminant loads to determine infiltration and contaminant flux. Average values of various input parameters have been used within the water balance model.

Hydrological inputs

Within the hydrological input tab of the model, input parameters include precipitation, evapotranspiration, surface runoff rates (considering soil type and slope), channel flow rates, and surface cover distribution plus additional catchment factors including proportion of direct shedding and slope.

Meteorological data for the site, including rainfall and actual evapotranspiration for each of the identified surface cover types, were sourced from the Meteorological Office and are based on a site-specific MORECS report, itself based on data for the period between 2006 and 2015 from weather stations in the vicinity of the site.

Meteorological data has not been changed since the SIRIUS 2017 version of the model as this represents the most accurate site-specific dataset available for these parameters. Rainfall data for the Claudy groundwater body (including the River Faughan) as a whole compares well with the MORECS data, with a value of 1199mm/year reported for the Claudy Catchment, versus a site specific value of 1240mm/year from MORECS data.

Surface cover distribution areas have been updated due to the site becoming more overgrown since the previous iteration. These have been calculated for the entire site and for each of the zones. Standard percent surface runoff rates have been assigned to each surface cover distribution area based upon HOST soil classifications from the Institute of Hydrology Report 126. Surface runoff adjustments for topography have been included to account for the

effect of slope in accelerating runoff, and a percent of the site with slopes greater than 10° has been assumed, consistent with the previous SIRIUS model.

River Faughan average flow rate was updated with more recent available data from the National River Flow Archive up to August 2017. No flow measurements were taken by Tetra Tech; surface water tributary average flow was taken from the SIRIUS flow measurement averages.

Rates of runoff have been estimated using current Environment Agency guidance ("Rainfall Runoff Management for Developments, Report Ref. SC030219, dated 2013). Runoff rates have also been adjusted specifically for the site based on the surface topography and surface catchment analysis, such that only runoff leaving the area *via* surface water or across a site boundary is excluded from the calculated infiltration rate. Runoff entering surface water bodies remains a source of infiltration and is not subtracted from the water balance calculation.

Hydrogeological inputs

Within the hydrogeological input tab of the model, input parameters include width of the aquifer perpendicular to flow, aquifer thickness, hydraulic conductivity, hydraulic gradient, and representative aquifer concentrations of contaminants. Site averages have been selected for width of aquifer perpendicular to flow, aquifer thickness, hydraulic conductivity and hydraulic gradient.

Bedrock has not been widely encountered across the site. Where bedrock has been encountered, it is limited to areas of the site that have been subject to quarrying, and therefore it is difficult to ascertain the dip of the bedrock with any accuracy. Therefore, the model assumes an aquifer thickness of 9 m across the site, an update of the previous 8 m from SIRIUS. This value is used across all the zones. This is in the lower end of reported values in 'Characterisation of groundwater bodies within Northern Ireland June 2012 Version No.1' for the flow zone of the Claudy groundwater body (which includes the River Faughan catchment). This report indicates a dominant flow zone in the upper 10-30 m.

A hydraulic conductivity of 5 m/day used in the previous SIRIUS model. has been determined based on an average of the boreholes across the site and is considered to still be relevant.

The hydraulic gradient is based on an average of site measurements from round 1 and 2 groundwater contour maps. Again, the value for the hydraulic gradient of 0.01 is thought to remain relevant for the shallow superficial aquifer, based upon recent groundwater level measurements and contouring.

Representative aquifer concentrations of contaminants are average concentrations based on dataset of site observations. Values below the limit of detection have been assumed to be at the limit of detection for the purposes of statistical calculation.

The water balance model does not consider attenuation processes such as dilution, dispersion and degradation, which are modelled within ConSim. The water balance model is therefore highly conservative when assessing source areas that are not located immediately adjacent to the receptor.

Estimated aquifer flow rates have been verified against site measurements of hydraulic gradient and conductivity and have been checked relative to anticipated base flow for each source area to ensure that the water balance and

ConSim level 3a assessments are consistent.

Background Loads

Water quality data has been allocated to specific river sections within the water balance model as was done in the previous SIRIUS model (River Faughan Upstream, surface tributary upstream, and surface tributary discharge). SW6 was upstream River Faughan, SW5 was tributary discharge, and SW1 were classed as the upstream tributary. Data came from 'Annex D11 – NIEA environmental data and reporting – Mobuoy Surface Water Monitoring Locations'.

12. RESULTS

12.1. RESULTS OF CONSIM MODELLING

ConSim and RTM models are included as electronic files at Appendix 16.

A summary of the results of the DQRA are provided in Table 12-2.

12.2. RESULTS OF WATER BALANCE MODELLING

12.2.1. Ratios of Relative Flow by Pathway

Infiltration for the site has been calculated by subtracting total evapotranspiration, total site runoff, and the potential runoff into the lagoon from the annual site precipitation. Estimated infiltration rates are considered reasonable and in general accordance with the average recharge rates of approximately 324 mm/year for the Claudy groundwater body within the north-western river basin district (Characterisation of groundwater bodies within Northern Ireland June 2012 Version No.1).

Based on the sites geological and hydrogeological setting, infiltration is considered to account for the majority of aquifer flow at the site.

The results of the water balance modelling are presented in terms of contaminant flux for each pathway in units of mg/year. This allows the ratio of potential impacts from each source and each pathway to be compared directly with each other and with background concentrations, where applicable. Contaminant flux is calculated by multiplying the groundwater or surface water flow rate (m³/day or m³/year) by the observed contaminant concentration (mg/l) to derive a flux in units of mg/day or mg/year.

The flow data for the River Faughan was used to calculate the maximum load of each potential contaminant of concern that could enter the River before the concentration threshold for that contaminant would be breached within the surface water. Based on the known flux rate of each contaminant, it is also possible to calculate the concentration (site specific assessment criteria) of each contaminant within each source that would not result in such a breach.

As the above approach makes a certain level of assumption about the flow rate within the receptor, it is considered appropriate to include an additional factor of safety within the assessment to account for potential variation and to account for the possibility that there could be other impacts to the receptor that are unrelated to the subject site. Sirius incorporated these uncertainties into the model by applying an additional safety factor of 10 to calculated site specific assessment criteria using the water balance approach; Tetra Tech have also applied this FoS in calculating the SSACs.

A summary of the results obtained from the water balance modelling are summarised in Tables Table 12-1. It is important to note that the results obtained from the water balance modelling are indicate of *relative* flows and fluxes (e.g., as ratios) and are not an indication of absolute levels of impact or risk. With this in mind, the key conclusions

drawn from the results of the water balance modelling approach are summarised below.

Table 12-1 Results of Water Balance Modelling – Relative Flow by Pathway

Result	Whole site	Source Area 1,2 & 3	Source Area 3 & 8	Source Area 5	Source Area 6	Source Area 7	Source Area 8	Source Area 9
Ratio of Groundwater flow to River Faughan Flow	9.68E-04	1.84E-04	6.13E-05	6.74E-05	1.23E-04	1.29E-04	7.66E-05	3.68E-04
Ratio of groundwater flow to Tributary Flow	1.37E-01	2.60E-02	8.68E-03	9.55E-03	1.74E-02	1.82E-02	1.09E-02	5.21E-02
Ratio of Tributary Flow to River Faughan Flow	7.06E-03	-	-	-	-	-	-	-
Ratio of infiltration to Aquifer base flow	7.04E-01	5.55E-01	3.17E-01	1.73E-01	3.41E-01	3.07E-01	2.61E-01	1.51E-01

With reference to Table 12-1, on a site-wide basis, infiltration accounts for the great majority of aquifer flow. Particularly within zones 1, 2 and 3, subsurface transport pathways are driven almost exclusively by infiltration with predicted infiltration rates exceeding the anticipated groundwater base flow rates. This is consistent with the hydrogeological appraisal of this area since bedrock strata of negligible permeability are located immediately to the east of this zone. Essentially, the overall width of the superficial aquifer is narrow, with source zones at the site taking up a significant proportion of the aquifer's areal extent. The superficial aquifer is likely to receive only limited groundwater flow from the largely impermeable Dalradian rocks to the east. Groundwater baseflow is therefore dominated by impacted infiltration from soil source areas.

These findings reaffirm the findings of the original Sirius water balance modelling. Infiltration rates will therefore be of primary importance in controlling contaminant migration within this area of the site. Within the other, smaller, source areas, infiltration forms a smaller proportion of the total anticipated groundwater flow.

The provide further context, the anticipated groundwater flow into the River Faughan from the whole site is approximately 3 orders of magnitude (or approximately one-thousandth) less than the flow within the river channel itself.

12.2.2. Discussion

The Water balance modelling has calculated relative contaminant fluxes from each of the source areas at the site, based upon literature and site specific hydrological and hydrogeological data, that could theoretically enter the River

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Faughan. It is reasonable to assume that the contaminant loads reaching the River Faughan are likely to be less than indicated by modelling. There are two plausible explanations, 1) the effects of dilution in groundwater within the wider aquifer thickness will be greater than represented by the model, 2) there is also likely to be heterogeneity along the river in terms of riverbed geology, with the presence of lower permeability alluvium (sandy silt and sandy clay) in places. The presence of this alluvium may provide increased protection to the river by retarding contaminant flow pathways and encourage contaminants to migrate further down gradient (down river) as hyporheic flow.

The water balance modelling has demonstrated that dilution is significant at the River Faughan. Further characterisation of the hyporheic zone and bank storage could help to refine the conceptual understanding and support the modelling assumptions applied. Modelling iterations are considered to be suitability representative of site conditions and assumptions applied are based on available site data.

12.3. CALCULATED SITE SSACS

SSACs calculated for the site from both the RTM and Water balance approach are presented within Appendix 17.

The table presented in Appendix 18 provides a summary of the RTM and Water balance derived SSACs, and includes the following information:

- Compliance targets, based upon the Tier 1 screening laid out in Section 7 of this report.
- ConSim groundwater remedial target criteria (RTC), calculated as part of the ConSim and RTM modelling.
- Water balance RTC, calculated as part of the water balance modelling and accounting for dilution within the River Faughan.
- Minimum, average and maximum values of the contaminants of concern within source area.
- The predicted travel times of contaminants from the source area to the river, based on ConSim modelling.
- The overall risk rating for the contaminant, depending on which target criteria is exceeded (see Table 12-2 and 13-3, below.

Site specific Risk assessment criteria calculated as part of the RTM modelling, water balance modelling and predicted travel times to the River Faughan are presented for each of the contaminants of concern in individual source areas and for the wider site groundwater. Representative source concentrations for each zone have also been presented to allow a comparison with site specific risk assessment criteria. The results of ConSim RTM models have been assessed at the 90th percentile level, which is conservative and likely to overestimate actual levels of risk.

12.4. RISK ASSESSMENT

An overall risk rating has been derived for each contaminant and each source area. This was achieved by taking consideration of the above factors and the scale of potential impacts (i.e., the maximum and average representative source concentrations and their relative magnitude in relation to site-specific assessment criteria).

The rationale and justification for the selection of the risk rating is outlined in Table 12-2. This approach is intended to provide a reasonable and objective framework for assessing the likely levels of risk to the River Faughan based on the results of the DQRA. This approach is consistent with the approach taken by Sirius when comparing the relevant risks of the ConSim (RTM) and Water balance derived SSAC.

More weight is attached to exceedances of the water balance derived SSAC, as these include the effects of dilution within the River Faughan. By comparison, the ConSim derived SSACs are inherently conservative as they are derived from the modelling of a continuous groundwater source (i.e., the source is continuous and not declining), which in some cases is located extremely close or adjacent to the River Faughan itself. Whilst the ConSim modelling indicates that these contaminants are likely to travel to the river, they give less of an indication as to the real term impacts upon water quality within the river itself, even when dilution has been conservatively reduced by a factor of 10.

Further information supporting the decisions made within the risk assessment is included in the risk evaluation section below.

Table 12-2 - Rationale for selection of Risk Rating based on DQRA

Factor	Below RTM Criteria	Above RTM Criteria	Below Water Balance Criteria	Above Water Balance Criteria	Justification
Average Concentration	Negligible	Moderate	Moderate	High	Average concentrations provide the most appropriate measure of the likely realistic impacts arising from each source area, considering the extent, heterogeneity and complexity of the site. Average concentrations above the RTM-derived SSACs indicate a potential risk although these criteria are likely to be conservative and the likelihood of impacts being realised within the River Faughan are low. Average concentrations above the water balance criteria indicate a potential risk which could conceivably result in a detectable impact during extreme drought conditions – the water balance derived SSAC account for dilution within the river, albeit with a FoS of 10 reducing the dilution afforded by the watercourse.
Maximum Concentration	Negligible	Low	Low	Moderate	Maximum concentrations exceeding the RTM derived SSAC indicate a potential risk but are likely to overestimate levels of risk compared to the averages established. For cases where average concentrations are below RTM derived SSACs, but maximum concentrations exceed these levels, data has been reviewed to ensure that there are no outliers which could indicate locally higher levels of risk.
Travel Time	<1,000 years	1,000 – 10,000 years	>10,000 years		EA RTM guidance indicates that substances with travel times from the source to the receptor of 1000 years or more may not present a significant risk to water receptors and
	No change to concentration-based assessment	Maximum risk rating of moderate	Maximum risk rating of Low		consideration of other factors could be significant. Travel times in excess of 10,000 years indicate no realistic likelihood of impact.

Example 1 – Max conc. of benzene in Source Area 5 is 13 mg/L, average conc. is 4.47 mg/L. RTM SSAC is 0.027 mg/L, Water Balance SSAC is 196 mg/L. The average conc. is above the RTM criteria, but below the water balance criteria. Therefore, the risk rating assigned is Moderate.

Example 2 – Max conc. of chloride in Source Area 6 is 320 mg/L, average conc. is 118mg/L. RTM SSAC is 250mg/L, Water balance SSAC is 204,000mg/L. The average conc. is below the RTM criteria, but the max conc. is above the RTM criteria. Both are below the water balance criteria. Therefore, the risk rating assigned is low.

Table 12-3 - Summary of DQRA Results – Risk to River Faughan

Contaminant of Concern	Source Area 1,2,3	Source Area 3,8	Source Area 5	Source Area 6	Source Area 7	Source Area 8	Source Area 9
Metals	7 11 0 1,2,0	7 ti ou 0,0	7 II Ou O	7.11 00.10	7 H Ou 1	711000	71104
Arsenic	Low						
Boron	Low	Low					
Cadmium			Moderate	Moderate	Moderate	Moderate	
Copper	Negligible						
Zinc	Low	Moderate	Moderate	Low	Moderate	Low	Low
Nickel	Low	Moderate	Negligible	Low	Low	Moderate	Low
Mercury	Negligible	Low					
PAHs							
Naphthalene	Moderate	Moderate	Moderate	Moderate			
Fluoranthene		Moderate	Moderate				
Anthracene		Moderate	Moderate				
BTEX							
Benzene		Moderate	Moderate	Low			
Toluene	Negligible	Moderate	Low		Negligible		
Ethylbenzene		Moderate	Moderate				
TPH (aromatic)							
C5 to C7 Aromatic		Moderate	Moderate				
C8 to C10 Aromatic		Moderate					
C10 to C12 Aromatic	Moderate	Moderate	Moderate				
C12 to C16 Aromatic		Moderate	Moderate				
C16 to C21 Aromatic		Moderate	Low				
C21 to C35 Aromatic		Low					
Other							
Ammonia	Moderate	Negligible	Negligible	Moderate		Moderate	Low



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Contaminant of Concern	Source Area 1,2,3	Source Area 3,8	Source Area 5	Source Area 6	Source Area 7	Source Area 8	Source Area 9
Chloride	Low			Low		Moderate	
Free Cyanide	Moderate			Moderate	Moderate		Moderate

Modelling indicates a moderate risk associated with PAH species, aromatic hydrocarbons and BTEX compounds in Source Areas 3,8 and 5. Benzene and Naphthalene come closest to exceeding the water balance derived SSACs in source areas 3,8 and 5 out of all contaminants. However, when dilution is accounted for in the River Faughan, it is considered unlikely that the EQS would be exceeded in the River, even with dilution reduced by a factor of 10. Moderate impacts have also been assigned to BTEX, PAH and aromatic hydrocarbons in Source Zones 1,2,3,and 6.

Ammonia, cadmium, zinc, nickel and free cyanide have also been assigned moderate risk ratings across several source zones. Due to the limited dilution available within the shallow aquifer, and generally short travel times from the source areas to the river receptor, the ConSim modelling predicts that contaminated groundwater will reach the bank of the river at concentrations in excess of the EQS. However, when dilution within the river is factored in, it is unlikely that they will have a measurable impact upon the River Faughan. Consequentially, they are assigned a moderate risk rating.

Predicted travel times for all contaminants from each groundwater source area to the River Faughan are generally less than 10,000 years, reflecting the short pathway distances across the site, through the shallow aquifer, and towards the river. The variation in between the travel times of various contaminants of concern is reflective of their differing partitioning behaviour in the environment – e.g. whether or not they sorb strongly to aquifer materials, and are delayed in migrating by the resulting retardation. Metals such as cadmium, arsenic and mercury with high partition coefficients are expected to have much longer travel times than more mobile contaminants such as chloride, ammonia, or BTEX compounds, which is reflected in the travel time results.

It should be noted that the 'start date' for the predicted travel times is based upon the results of a ConSim Level3a assessment (e.g. a groundwater source based on recent monitoring data); 2022 should be considered year 0 with regard to the presented travel times. The predicted travel times run from the date the groundwater quality data was collected during monitoring (e.g. monitoring Round 1 and Round 2 in 2022). The travel times (and the risk ratings) therefore date from the time of assessment and present the current and future level of risk from the site, rather than the from time of waste deposition.

Figure 10 summarises the moderate risk ratings for each contaminant of concern by Source Area.

12.4.1. Cumulative Impacts - Whole Site Level 4 Assessment

In addition to the ConSim and water balance modelling conducted for each separate source area, a 'Whole Site' model based on calculation of the SSAC from the water balance has been derived, to allow for assessment of the cumulative impacts from the entire site on the River. This model assumes that the average measured aquifer concentrations of the contaminant of concerns migrate to the River Faughan, where dilution takes place, and includes all of the modelled groundwater baseflow underneath the site. Similar to the individual SSACs derived for the individual source areas, dilution available in the river has been reduced by a factor 10. The results of the model are summarised in Table 12-4 below.

The results of the Whole Site Level 4 assessment demonstrate that:

- The estimated groundwater contaminant flux from the whole site would not be expected to result in a breach of the TSVs within the River Faughan, as the estimated flux is below the maximum allowable flux including a reduction of the available dilution by a factor of ten.
- Average aquifer concentrations are below the site wide derived SSACs, indicating that current averaged aquifer concentrations do not pose a risk to the River Faughan

Table 12-4 - Whole site water balance derived contaminant flux and SSAC

Contaminant of Concern	RTC (mg/l)	Maximum allowable flux including FoS of 10 (mg/day)	Estimated GW flux (mg/day)	Average Aquifer Concentration (mg/l)	SSAC (mg/l)		
Metals							
Arsenic	5.00E-02	3.67E+06	4.89E+03	6.88E-03	5.16E+00		
Boron	1.00E+00	7.34E+07	3.40E+05	4.78E-01	1.03E+02		
Cadmium	9.00E-05	6.61E+03	9.95E+01	1.40E-04	9.30E-03		
Copper	3.49E-02	2.57E+06	2.48E+03	3.48E-03	3.61E+00		
Mercury	7.00E-05	5.14E+03	3.81E+01	5.36E-05	7.23E-03		
Nickel	1.50E-02	1.10E+06	1.42E+04	2.00E-02	1.55E+00		
Zinc	3.72E-02	2.73E+06	2.71E+04	3.81E-02	3.84E+00		
ВТЕХ							
Benzene	1.00E-02	7.34E+05	1.24E+05	1.75E-01	1.03E+00		
Toluene	7.40E-02	5.43E+06	1.15E+04	1.62E-02	7.64E+00		
Ethylbenzene	3.00E-01	2.20E+07	1.17E+04	1.64E-02	3.10E+01		
ТРН	ТРН						
Aromatic EC5-7	1.00E-02	7.34E+05	3.62E+03	5.10E-03	1.03E+00		
Aromatic EC8-10	3.00E-01	2.20E+07	2.28E+03	3.21E-03	3.10E+01		
Aromatic EC10-12	9.00E-02	6.61E+06	4.63E+04	6.51E-02	9.30E+00		
Aromatic EC12-16	9.00E-02	6.61E+06	1.09E+04	1.54E-02	9.30E+00		



Aromatic EC16-21	9.00E-02	6.61E+06	6.86E+02	9.64E-04	9.30E+00
Aromatic EC21-35	9.00E-02	6.61E+06	4.42E+02	6.21E-04	9.30E+00
PAH					
Anthracene	1.00E-04	7.34E+03	3.85E+01	5.42E-05	1.03E-02
Fluoranthene	6.30E-06	4.63E+02	4.25E+01	5.98E-05	6.51E-04
Naphthalene	2.00E-03	1.47E+05	1.90E+04	2.68E-02	2.07E-01
Other					
Ammonia	3.00E-01	2.20E+07	9.17E+05	1.29E+00	3.10E+01
Chloride	2.50E+02	1.84E+10	1.05E+08	1.48E+02	2.58E+04
Free Cyanide	1.00E-03	7.34E+04	4.28E+03	6.03E-03	1.03E-01

13. RISK EVALUATION AND LIMITATIONS

13.1. CALIBRATION OF MODEL PREDICTIONS

13.1.1. Predicted Contaminant Concentrations

Generally, it is expected that the ConSim Level3a groundwater model will over predict concentrations of contaminants downgradient of the source areas. One of the main limitations of a Level 3a (ConSim) model is that each groundwater source area acts a continuous source; consequentially, there is no decline of source concentrations over time, which would be the case in reality. Therefore, there is a tendency in Level 3a ConSim assessments to over predict groundwater contaminant concentrations downgradient of the groundwater source areas.

Comparison of predicated versus measured downgradient concentrations in BH628 (downgradient of Source Area 5), and in BH104 (downgradient of Source area 7) indicate that model predicted concentrations are typically in excess of measured concentrations at the 10-year time slice. While this would suggest that the modelling has not achieved a perfect fit with the observed site date, it also shows the conservative nature of the ConSim modelling, in that predicted concentrations are in excess of those actually observed on site; the RTM derived SSACs for the site are therefore considered highly conservative in nature.

Exceedances of the ConSim and RTM derived SSACs result in a Moderate risk rating (see Table 12-3 and Appendix 18). A 'High' risk rating is assigned to exceedances of the Water Balance derived SSACs, which are thought to more accurately reflect the risk to the River Faughan.

13.1.2. Calibration of Predicted Aguifer Flow

Based on the results of the sensitivity analysis (discussed further below), the groundwater contaminant transport model is most sensitive to hydraulic conductivity and hydraulic gradient. The combination of these parameters is used within the model to estimate the likely volume of groundwater flow. Predicted aquifer flows, at various confidence levels derived from the ConSim are shown in Table 13-1. These flows are compared with groundwater flows estimated for each source zone calculated using the water balance approach.

Table 13-1 - Summary of predicted aquifer flows, m³/year

Simulation	1	Source Area 1,2,3	Source Area 3,8	Source Area 5	Source Area 6	Source Area 7	Source Area 8	Source Area 9
ConSim %ile	95 th	73,247	21,059	21,957	38,984	41,889	30,322	123,349
ConSim %ile	90 th	59,044	16,029	17,200	30,789	32,015	24,757	95,307
ConSim %ile	75 th	35,904	10,371	10,750	18,069	19,879	14,951	61,695
ConSim %ile	50 th	18,438	5,267	5,612	9,553	10,778	8,375	32,318
Water Bala Modelling	ance	49,275	16,425	18,067	32,850	34,492	20,531	98,550

The above comparison indicates that the ConSim groundwater transport model is estimating significantly higher rates of aquifer flow at the 95th percentile when compared to the flows calculated as part of the water balance modelling. On the basis of several complimentary site-specific lines of evidence, including hydraulic conductivity testing, groundwater level monitoring and calculation of infiltration rates from meteorological data, together with calibration of the modelling against site observations, it is considered that the rates of groundwater flow calculated within the ConSim model are unrealistically high at the 95th percentile and consequently indicate an unrealistic level of potential risk.

Overall, therefore, the results of the model calibration show that the ConSim model is highly conservative at the 95th percentile confidence level. Based on the comparison carried out, it is considered that adoption of ConSim model outputs at the 90th percentile level provides a more accurate but still conservative assessment of the likely level of risk associated with the site and remains fully protective of controlled water receptors.

Assessment criteria calculated on the basis of the 90th percentile attenuation factors generated within ConSim are comparable with those calculated using the water balance approach and are therefore considered to be the most appropriate for use when determining remediation target concentrations, whilst remaining conservative.

13.1.3. Hyporheic Zone

Much though has been afforded to the role of the hyporheic zone and bank storage when it comes to reducing contaminant concentrations entering the River Faughan. If bank storage plays a significant role, it is likely that this mixing zone may result in a greater amount of dilution near river than is currently predicted by the models. Notwithstanding this, the models are still conservative and additional mixing within the hyporheic zone or due to bank storage is only going to increase the factor of safety to the river.

13.2. BIODEGRADATION

ConSim and RTM groundwater transport modelling has assumed that biodegradation of organic contaminants and ammoniacal nitrogen will take place within the superficial sand and gravel aquifer. Degradation rates are based upon those utilised previously within the Sirius DQRA, which were based on the range of reported rates that include 'worst case' values measured in the field (i.e., the longest environmental half-lives) for each of the contaminants of concern. This approach is still considered justified and conservative on the following basis:

- There is significant evidence from gas monitoring data within the source areas containing domestic type wastes that rapid methanogenic degradation of putrescible waste materials is occurring.
- The aquifer downgradient of the main source areas is surficial and aerobic in nature, which will support the relatively rapid aerobic biodegradation of hydrocarbons and ammoniacal nitrogen.
- The background geology and hydrochemistry indicate that there is an abundant source of respiratory substrates for anaerobic microbial biodegradation, such as manganese and iron. Elevated concentrations of dissolved iron and manganese, which would be products of contaminant biodegradation, are widely present in the groundwater and particularly so in close proximity to source areas.
- Calibration of observed contaminant concentrations within downgradient wells against concentrations
 predicted by the modelling, even after adjusting for aquifer flow, suggests that the models over-predict the
 magnitude of impacts for organic substances and ammonia compared to actual conditions. It is likely
 therefore that actual rates of biodegradation are higher than those used within the model.
- Degradation has only been allowed within the dissolved phase, rather than the dissolved and sorbed phase,
 a conservative assumption which reduces the degradation rates of the contaminants.

13.3. SENSITIVITY ANALYSIS

The ConSim model provides the results of an internal sensitivity analysis for the groundwater transport pathway. A summary of sensitivity results for selected contaminants of concern are summarised below. Representative substances for each of the major contaminant groups have been selected to illustrate the factors important for each. Sensitivity analysis was performed on the Zone 1, 2 and 3 but, given the similarity of the conceptual site model, model sensitivity is expected to be comparable for the other source areas. The sensitivity results reflect the correlation between the input parameter and the predicted impact across each of the individual simulations within the ConSim assessment (1001 iterations run).

The sensitivity analysis results vary between 1 and -1. A value of 1 indicates a perfect positive linear correlation between the input value and the result. A result of -1 indicates a perfect negative linear correlation between the input and the result. A value of 0 indicates no correlation between the input and the result.

Table 13-2 - Sensitivity analysis, Source Area 1,2,3 - Toluene

Input	Sensitivity
Toluene - Zones 1,2_3 - Aquifer Hydraulic Conductivity [m/s]	0.222644
Toluene - Zones 1,2 [3 - Aquifer Half Life [years]	0.167065
Toluene - Zones 1,2_3 - Aquifer Hydraulic Gradient	0.122385
Toluene - Zones 1,2 3 - Aquifer Dry Bulk Density [g/cm²]	0.0350462
Toluene - Zones 1,2_3 - Aquifer Thickness [m]	0.0346225
Toluene - Zones 1,2 3 - Aquifer Fraction of organic carbon (foc) [%]	0.0228462
Toluene - Zones 1,2_3 - Aquifer Effective Porosity [fraction]	0.00944765

Table 13-3 - Sensitivity analysis, Source Area 1,2,3 - Copper

Input	Sensitivity
Copper - Zones 1,2_3 - Aquifer Hydraulic Conductivity [m/s]	0.327382
Copper - Zones 1,2_3 - Aquifer Effective Porosity [fraction]	0.171892
Copper - Zones 1,2_3 - Aquifer Hydraulic Gradient	0.121743
Copper - Zones 1,2 3 - Aquifer Dry Bulk Density [g/cm²]	-0.0483128
Copper - Zones 1,2_3 - Aquifer Thickness [m]	0.0455204

Table 13-4 - Sensitivity analysis, Source Area 1,2,3 - Naphthalene

Input	Sensitivity
Naphthalene - Zones 1,2_3 - Aquifer Hydraulic Conductivity [m/s]	0.427337
Naphthalene - Zones 1,2 3 - Aquifer Half Life [years]	0.40163
Naphthalene - Zones 1,2_3 - Aquifer Hydraulic Gradient	0.255582
Naphthalene - Zones 1,2_3 - Aquifer Effective Porosity [fraction]	0.161707
Naphthalene - Zones 1,2_3 - Aquifer Thickness [m]	0.0417608
Naphthalene - Zones 1,2 3 - Aquifer Fraction of organic carbon (foc) [%]	0.033815
Naphthalene - Zones 1,2_3 - Aquifer Dry Bulk Density [g/cm²]	0.00230984

The results of the sensitivity analysis show that hydraulic conductivity and hydraulic gradient within the aquifer are the primary factors that influence the predicted impacts. Whilst measured hydraulic gradients are relatively stable across the site and the likely range of values is constrained by topography and geology, a wide range of hydraulic conductivities have been measured on site and the range used within the model accounts for this variability.

The separate water balance modelling, which considers the likely magnitudes of infiltration and groundwater flux, helps to constrain the likely range of hydraulic conductivity values. Taking into consideration the shallow aquifer body as a whole, it is concluded that the values used to represent hydraulic conductivity in the ConSim model are appropriate and tend to be towards the more conservative (i.e., higher) end of the likely true value.

Environmental half-lives govern the rate of biodegradation and consequently the rate of contaminant mass loss within the aquifer downgradient of the source. The impact of this parameter for low molecular weight compounds (which have short travel times) is secondary to the influence of groundwater flow velocity.

Conservative degradation rates have been used within the modelling and no allowance has been made for degradation in the sorbed phase. The fact that, even following calibration of model outputs against aquifer flow rates, predicted downgradient impacts are still higher than observed concentrations indicates that, in reality, degradation rates within the aquifer are likely to be higher than those which have been modelled.

Fraction of organic carbon, effective porosity and bulk density are important for certain contaminants as these parameters generally influence travel times. Data for these inputs is based on site specific information and is considered to be as accurate as possible. However, the impact of these parameters and parameters other than those discussed above are of little real significance for the model outputs with sensitivity values of less than 0.1.

14. CONCLUSIONS

Tetra Tech Limited (Tetra Tech) were appointed by Northern Ireland Environment Agency (NIEA), an executive Agency within the Department of Agriculture, Environment and Rural Affairs (DAERA) under the Mobuoy Road Waste Site Remediation Project to undertake all aspects required to recommend and implement a remediation strategy for the Mobuoy Road waste site.

This document updates the previous DQRA completed by Sirius, 2017 and is informed by additional site investigations and monitoring data collected between October 2021 and May 2022. The DQRA completed by Sirius deals specifically with risk to water receptors only and the update presented here reflects the same. The recent site investigation includes further characterisation of wastes, soils and an assessment of ground gas conditions. This information will be used to inform the future remediation design.

As part of this DQRA preparation an additional 76no. boreholes and 56 no. trial pits have been completed as well as on-site testing and the collection of associated gas, soil, leachate, groundwater and surface water samples. A vast amount of monitoring data has been collated and reviewed which has significantly enhanced our understanding of the site and the contamination issues. This data has allowed us to build on the previous work completed by NIEA and their consultants up to the point of the Integrated Consultant Team (ICT) appointment in June 2021. The additional investigation and monitoring have also allowed us to refine and update the Conceptual Site Model and reduce uncertainty in respect of contamination risks to the water environment. Additional contaminant modelling completed as part of this assessment has benefited from the data captured as part of the 141no. additional investigation points completed since 2021. The DQRA findings provide a strong basis for the subsequent Remedial Options Appraisal and Optimum Remediation Strategy development.

Potential Contaminants of Concern (PCoCs) observed generally remain consistent with those observed during earlier phases of site investigation since 2016. With respect to heavy metals, the main PCoC's are iron and manganese. Lower concentrations of nickel, zinc, copper, lead and cadmium have also been detected. Ammonia has been recorded site wide. There are localised areas of elevated organic pollutants, particularly in the central area of the CIW site. These organic pollutants are linked to the deposition of 'tarry' hydrocarbon containing wastes which have been observed on site. Analytical data supports a direct correlation between observed hydrocarbon containing waste signatures detected in groundwater within Zone 3 and those observed within Zone 8 to the immediate west and down hydraulic gradient.

In updating the modelling contained within the Sirius 2017 DQRA, the same overall quantitative approach has been followed, namely adopting an assessment of identified source areas (using ConSim and the Environment Agency's Remedial Targets Methodology), and the second using best available data to complete a water balance assessment for the site.

The two approaches are complementary and provide equally important information about the different pathways which are potentially present at the site. Furthermore, cross-referencing between the two methodologies allows the

overall risk assessment to be refined so that a robust and balanced overall assessment is made.

It is unavoidable that in undertaking detailed quantitative risk assessment of the Mobuoy Road site, simplification and assumptions have been made as part of the modelling of these complex and heterogenous source areas. Local variations in both physical geological and hydrogeological parameters, and contaminant concentrations mean that simplification of the modelled system have been necessary. However, where assumptions and simplifications have been made, every effort has been made to make sure that the assumptions err on the side of caution and adopt as conservative an approach as reasonably possible.

14.1.1. Measured Impacts on Shallow Groundwater

The shallow River Faughan Groundwater Body (GWB) is not only a contaminant pathway but is also categorised as an environmental receptor in its own right for the purpose of risk assessment under statutory protection obligations such as the Water Framework Directive (WFD) and The Environmental Liability Regulations (2009).

Relying upon dilution within the River Faughan may be considered appropriate in terms of assessing the risk to the river itself, and in protecting the downstream surface water abstraction, as modelling has shown that impacts on the river are likely to be very low. However, such an approach still results in derogation of the quality status of the groundwater body from 'good' to 'poor' under the WFD and prevents the future utilisation of shallow groundwater resources in the proximity of the Mobuoy Road site.

Ground investigation and groundwater monitoring has demonstrated that there are significant impacts to the shallow groundwater body present beneath the site, with exceedances of the environmental quality standards (EQS) for a wide range of organic and inorganic contaminants in groundwater.

In addition, the results of ConSim modelling and the derivation of ConSim derived site-specific assessment criteria (SSAC) demonstrate that the average measured groundwater concentrations are predicted to exceed the modelling derived Site-Specific Assessment Criteria downgradient of the modelled source areas. These are the contaminants which have been assigned a "Moderate" risk rating within Table 12-3, and include heavy metals, poly-aromatic hydrocarbons, BTEX compounds, and ammonia and free cyanide

The overall impact to the River Faughan is assessed as low to moderate and relies on dilution within the receptor to achieve this rating. Remediation is necessary to improve the quality of the groundwater locally and achieve betterment of the chemical status of the Faughan Groundwater Body, which in turn will reduce the risk to the River Faughan. Remediation will provide increased confidence in the water quality of the River Faughan and subsequently improve the long term security of the public drinking water abstraction downstream of the site.

Water balance modelling, conceptual site models, and groundwater level measurements have demonstrated a connection between the groundwater body and the River Faughan. The impact from the Mobuoy site has resulted in the Faughan Groundwater Body being reclassified from 'good' to 'poor' status in the 3rd cycle River Basin Management Plan (2021-2027). Remediation of the Mobuoy site is included in the plan as a key targeted measure required to be implemented in order to achieve the statutory Water Framework Directive objective of 'good' status

for all groundwater bodies by 2027 - an important additional driver for remediation.

The modelling demonstrates avenues for remediation of the site – for example, the ratios of infiltration through the source areas to groundwater base flow shown within table 13.1 demonstrate that reducing infiltration through the deposited waste is a promising avenue for improving groundwater quality beneath the site. Considering the wealth of exploratory positions (boreholes and trial pits), plus soil and groundwater sampling conducted to date, the site is well characterised and source removal or treatment can also be considered.

14.1.2. Predicted Impacts on the River Faughan

The Tetra Tech updated DQRA found that based on several lines of evidence, the overall impact of the Mobuoy Road site on the River Faughan is likely to be low. This is consistent with the earlier DQRA findings by Sirius in 2017. ConSim modelling indicates that when current groundwater quality concentrations are modelled using realistic aquifer parameters, predicted groundwater concentrations for multiple contaminants of concern are likely to exceed their respective environmental screening criteria at the site boundary / the banks of the River Faughan.

However, when dilution in the River Faughan is taken account of, the water balance modelling demonstrates that it is very unlikely that the level of impact will be sufficient to compromise the quality of the River Faughan in terms of measurable impacts, and its suitability for drinking water abstraction at Cloghole. Even during drought conditions, the contaminant flux leaving the site is limited compared to the flow in the River Faughan and contaminants of concern are expected to remain essentially undetectable. The level of dilution afforded by the river is simply too high to result in a measurable impact on river quality. This remains the case despite modelling including a further factor of safety by reducing the flow in the river by a factor of ten. This is the reason why none of the modelled contaminants have been afforded a "high" risk rating.

The appropriateness of relying upon dilution within a receptor to reduce the level of risk is considered to represent a special case within the Remedial Target Methodology: **Level 4 (Dilution in the Receptor)** – Considers dilution in the receptor. This is a special case, and the assessment must demonstrate that any impact on groundwater does not jeopardise future use of the resource or that the cost of remediation is disproportionate in relation to the improvement in relation to the improvement of the groundwater or surface water quality. – Environment Agency Remedial Targets Methodology, 2006.

The 'assessment' refers to the DQRA conducted to assess the risks to environmental receptors. Whilst a level 4 assessment has been used to assess the risks posed by the site to the river and the downstream drinking water abstraction, the Level 4 assessment is not being used as a justification for a 'do nothing' scenario. Despite no contaminants being modelled as posing a 'high' risk rating, a number of parameters have been modelled as posing a 'moderate' risk rating, posing a threat to the quality of the groundwater body.. In order to reduce 'moderate' risks to 'low' or 'negligible', this should be a considered the driver for the Remediation Options Appraisal (ROA) for the site. The ROA will consider the proportionality of costs in relation to improvement in groundwater and surface water quality.

Variable and uncontrollable long-term factors such as climate change, flooding, bank erosion, or changing water

resource demands. A change in any of these could alter the observed or predicted risks presented within this DQRA, and thus, these factors need to be accounted for in the ROA.

Whilst the modelling and risk assessment has adopted a conservative approach wherever possible, such as reducing available dilution within the river to account for low flow conditions brought on by drought or climate change, the unpredictability future potential impacts from uncontrollable long-term factors must also be considered when evaluating the need to remediate the site.

FIGURES

Figure 1- Site Location Plan

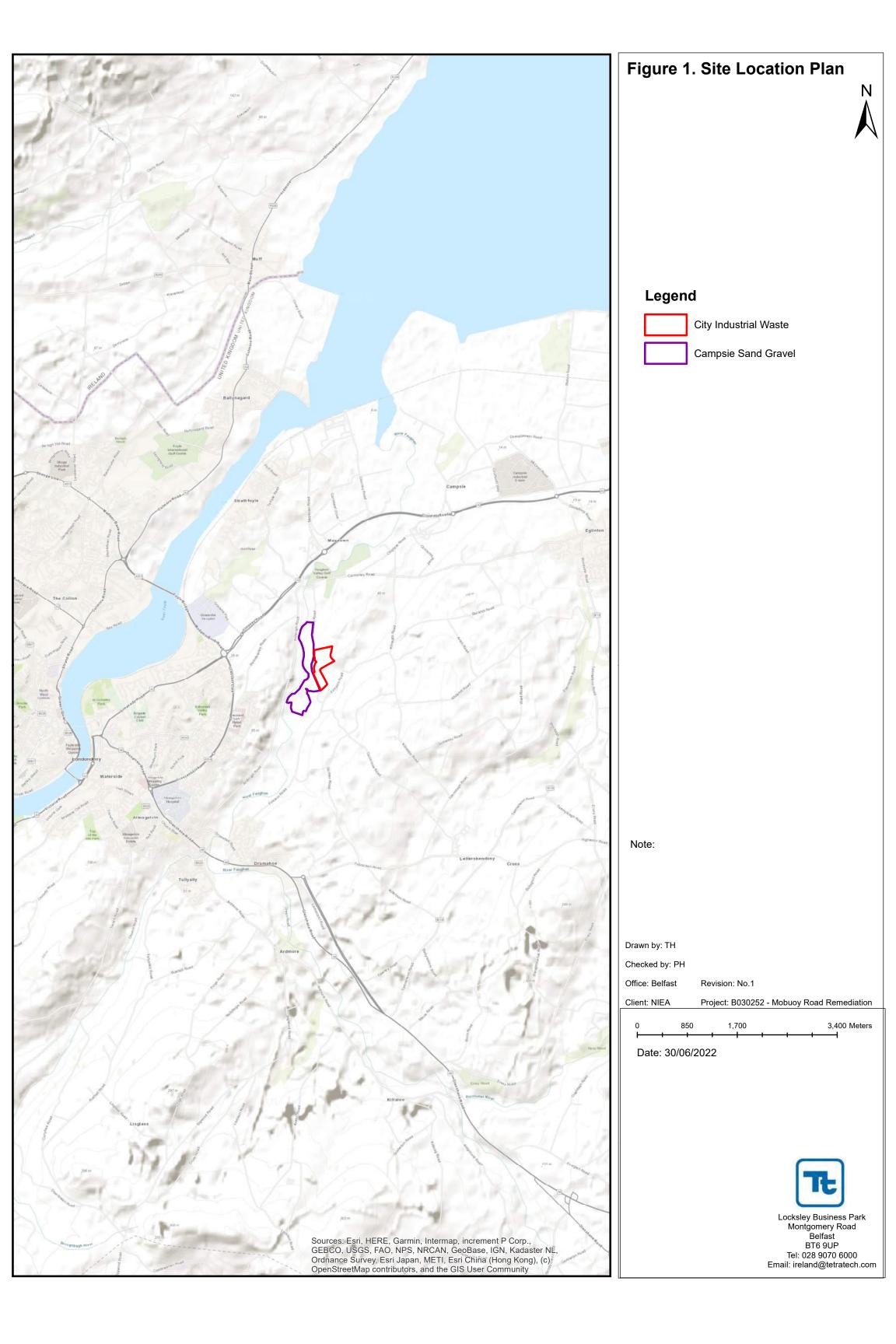
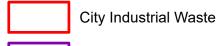


Figure 2- Site Layout Plan



Figure 2. Site Layout Plan





Campsie Sand Gravel

Note:

Drawn by: TH
Checked by: PH
Office: Belfast
Re

ffice: Belfast Revision: No.1

 Client: NIEA
 Project: B030252 - Mobuoy Road Remediation

 0
 75
 150
 300 Meters

Date: 05/08/2022



Figure 3 - Site Investigation Location Plans

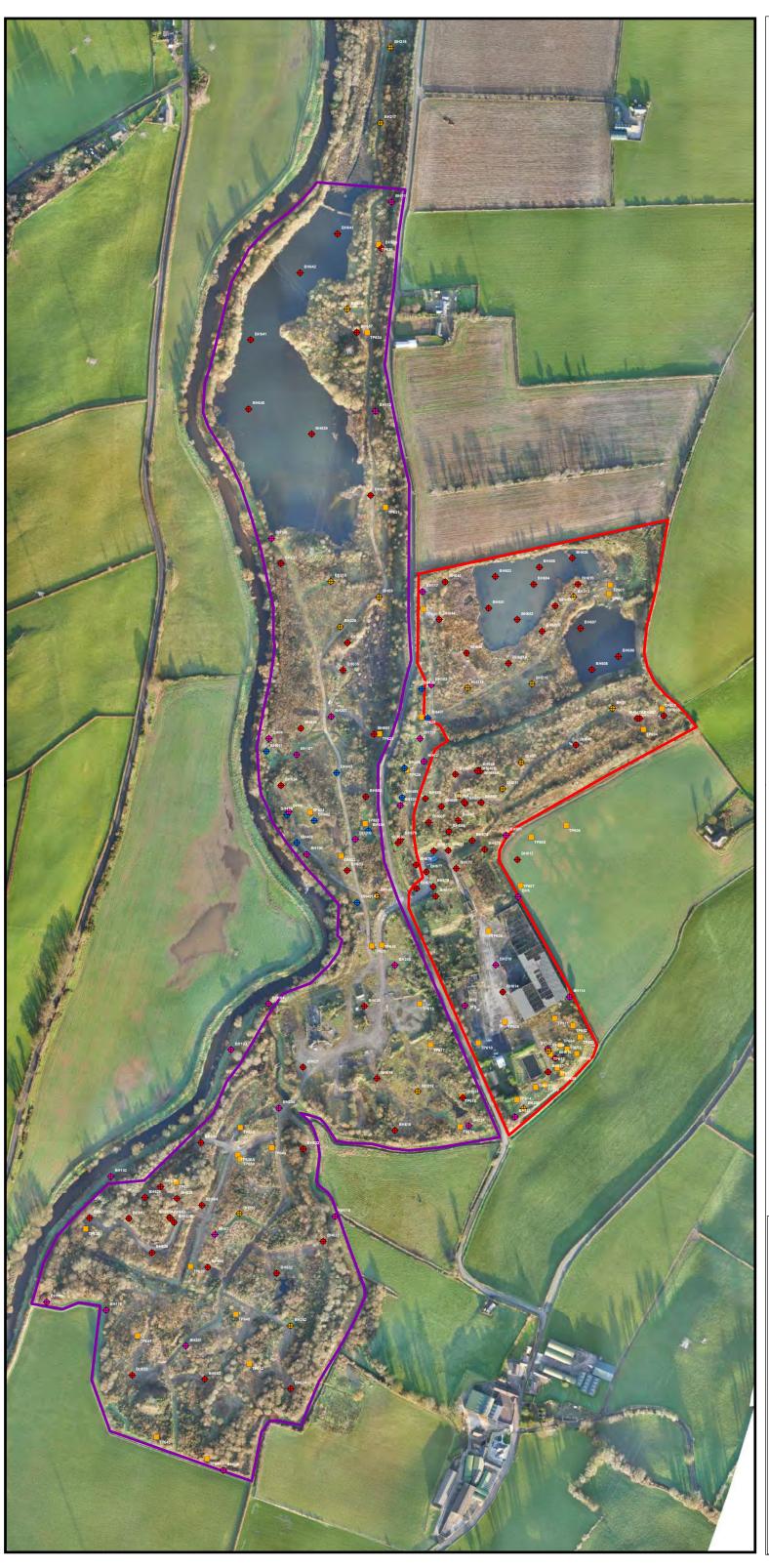


Figure 3. Site Investigation Location Plan



Legend

- Waste Wells
- Groundwater Wells
- BHs (400 Series)
- BHs (2021 2022)
- TPs (2021 2022)

City Industrial Waste

Campsie Sand Gravel

Note:

Drawn by: TH
Checked by: PH

Office: Belfast Revision: No.1

Client: NIEA Project: B030252 - Mobuoy Road Remediation

0 75 150 300 Meters

Date: 05/08/2022



Figure 4- Proposed A6 Roads Scheme Layout



Figure 4. Proposed A6 Roads Scheme





City Industrial Waste

Campsie Sand Gravel

Note:

Date: 05/08/2022

Drawn by: TH

Checked by: PH

Office: Belfast Revision: No.1

Client: NIEA Project: B030252 - Mobuoy Road Remediation

0 75 150 300 Meters



Figure 5- MPRT Surface Water Monitoring Locations



Key



0 0.2 0.4 0.8Km





Figure 6- Groundwater Flow Mapping

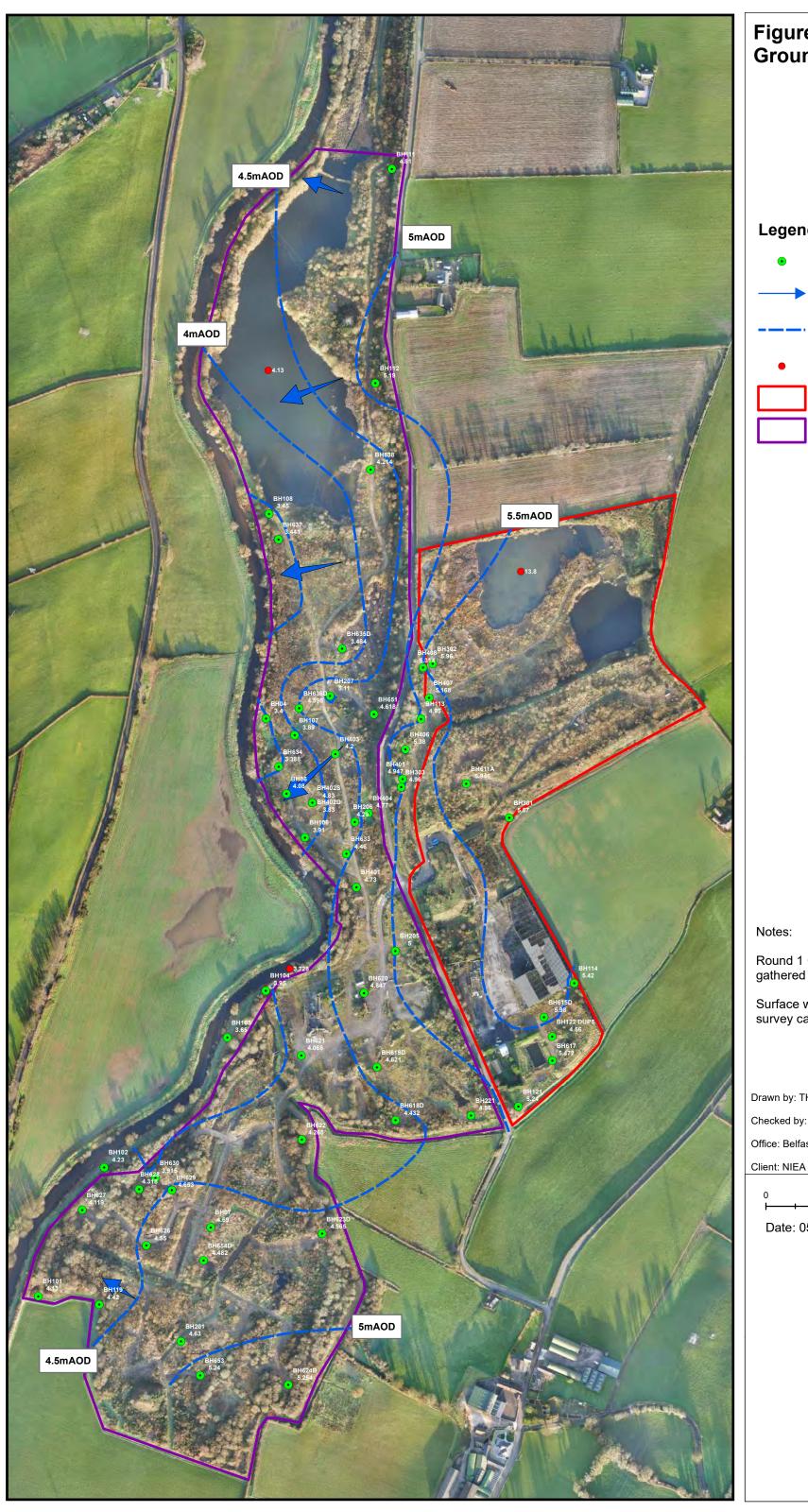


Figure 6a. TT Round One Groundwater Flows



Legend

- TT Round One Monitored BHs (mAOD)
- **Groundwater Flow Direction**
- TT Round One Groundwater Contours (mAOD)
 - Surface Water Level (mAOD)
- City Industrial Waste
 - Campsie Sand Gravel

Notes:

Round 1 Groundwater flows based on data gathered between January and February 2022

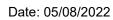
Surface water levels at ponds based on bathymetric survey carried out in December 2021

Drawn by: TH Checked by: CJL

Office: Belfast

Project: B030252 - Mobuoy Road Remediation

280 Meters





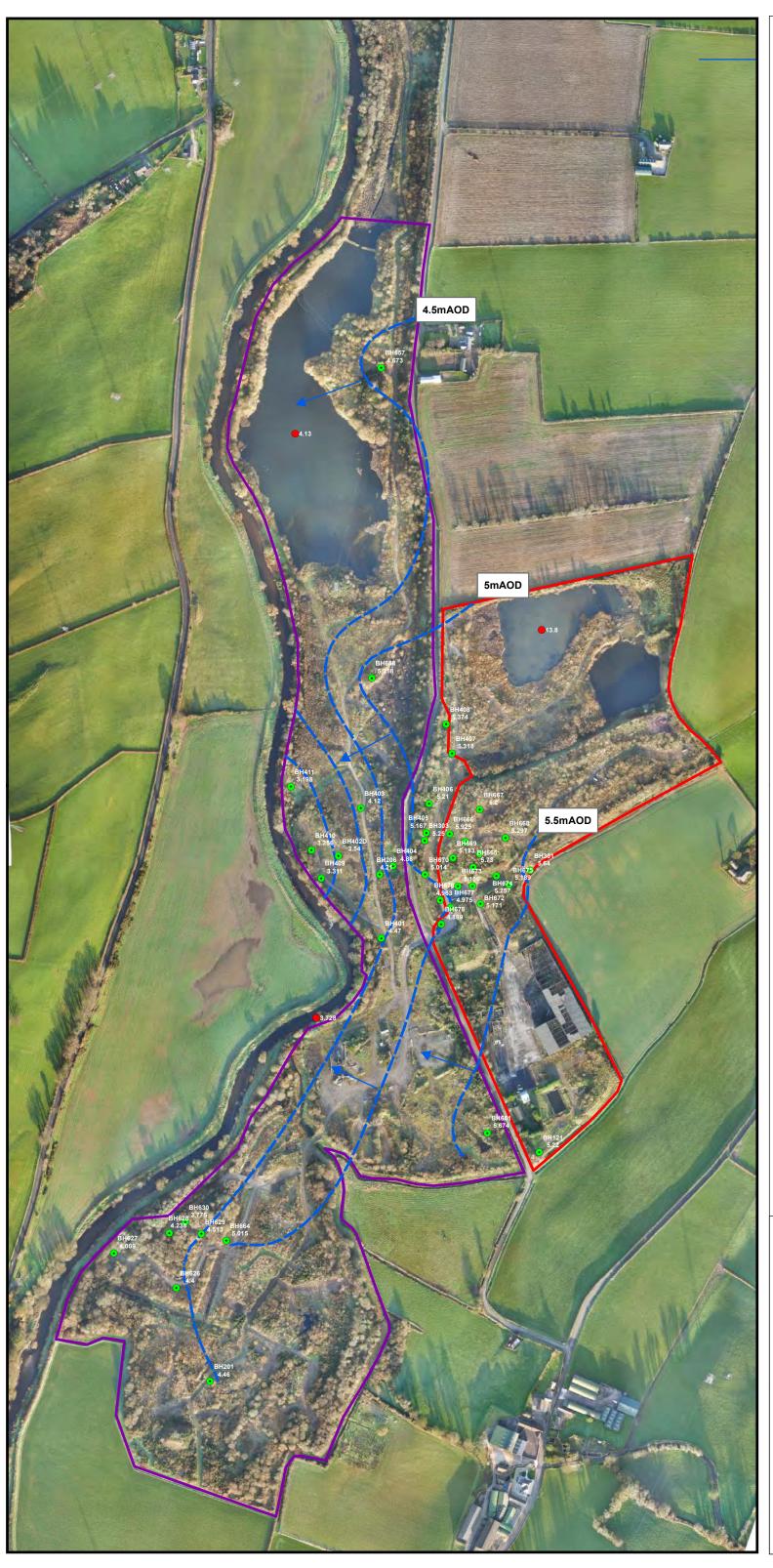


Figure 6b. TT Round Two Groundwater Flows



Legend

- TT Round Two Monitored BHs (mAOD)
- Groundwater Flow Direction
- TT Round Two Groundwater Contours (mAOD)
- Water Level (mAOD)
- City Industrial Waste
 - Campsie Sand Gravel

Notes:

Round 2 Groundwater flows based on data gathered between March and April 2022

Surface water levels at ponds based on bathymetric survey carried out in December 2021

Drawn by: TH
Checked by: CJL
Office: Belfast

Client: NIEA

Project: B030252 - Mobuoy Road Remediation

0 75 150 300 Meters

Date: 05/08/2022



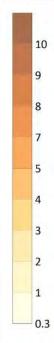
Figure 7- Contaminants in Groundwater Distribution Mapping





TETRA TECH

Ammonia (free) Concentration (ug/l)



Monitored Boreholes (ug/l)

Notes:

TSV: 0.3ug/l

Lab LOD: <0.05ug/l

All values displayed as 0.05 are below LOD

Tetra Tech 1 Locksley Business Park Montgomery Road Belfast BT6 9UP

028 90706000 tetratecheurope.com

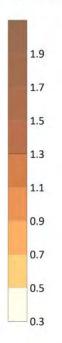


Ammonia (free) Contamination Plot - Round 1





Ammonia (free) Concentration (ug/l)



Monitored Boreholes (ug/l)

Notes:

TSV: 0.3ug/l

Lab LOD: <0.05ug/l

All values displayed as 0.05 are below LOD

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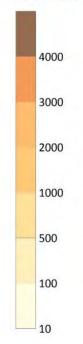


Ammonia (free) Contamination Plot - Round 2





Benzene Concentration (ug/l)



X Monitored Boreholes (ug/l)

Notes:

TSV: 10ug/l

Lab LOD: <1ug/l

All values displayed as 1 are below LOD

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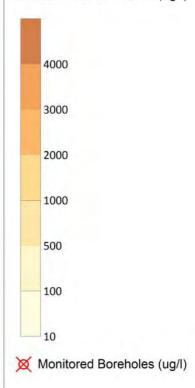
Benzene Contamination Plot - Round 1

Client: NIEA Drawn by: TH Checked by: PH Verified by: PH Drawn with Surfer 23

Legend



Benzene Concentration (ug/l)



Notes:

TSV: 10ug/l

Lab LOD: <1ug/l

All values displayed as 1 are below LOD

Tetra Tech 1 Locksley Business Park Montgomery Road Belfast BT6 9UP

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Benzene Contamination Plot - Round 2

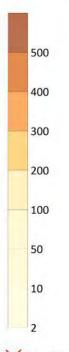
Client: NIEA Checked by: PH Verified by: PH Drawn with Surfer 23

Legend



TETRA TECH

Napthalene Concentration (ug/l)



Monitored Boreholes (ug/l)

Notes:

TSV: 2ug/l

Lab LOD: <0.01ug/l

All values displayed as 0.01 are below LOD

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Napthalene Contamination Plot - Round 1

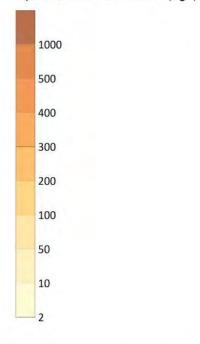
Project: 8030252 Date: 05/10/2022 Site: Mobuoy Road Client: NIEA Checked by: PH Verified by: PH Drawn with Surfer 23

Legend



TETRA TECH

Napthalene Concentration (ug/l)



Monitored Boreholes (ug/l)

Notes:

TSV: 2ug/l

Lab LOD: <0.01ug/l

All values displayed as 0.01 are below LOD

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028 90706000 tetratecheurope.com



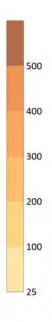


Napthalene Contamination Plot - Round 2





TPH Concentration (ug/l)



Monitored Boreholes (ug/l)

Notes:

Lab LOD: <10ug/l

All values displayed as 10 are below LOD

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TPH Contamination Plot - Round 1

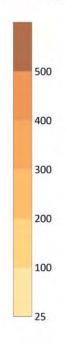






TETRA TECH

TPH Concentration (ug/l)



Monitored Boreholes (ug/l)

Notes:

Lab LOD: <10ug/l

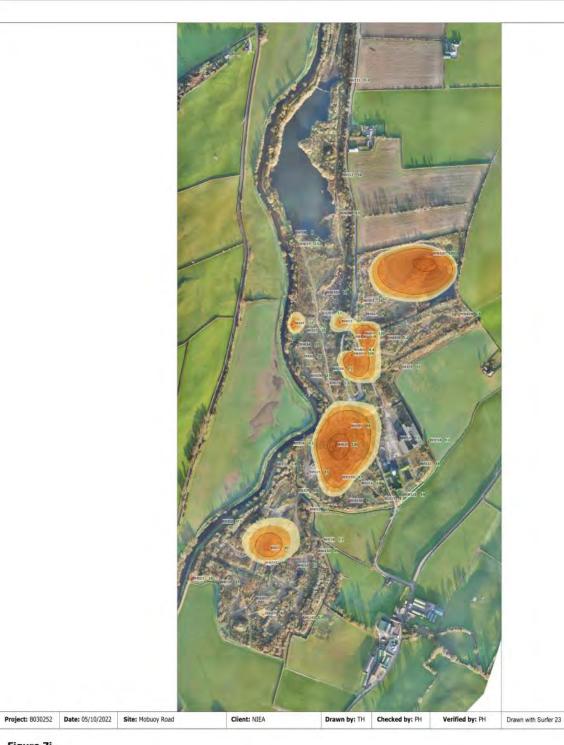
All values displayed as 10 are below LOD

Tetra Tech 1 Locksley Business Park Montgomery Road Belfast BT6 9UP

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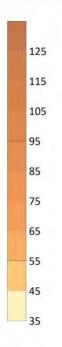
TPH Contamination Plot - Round 2





TETRA TECH

Zinc Concentration (ug/I)



Monitored Boreholes (ug/l)

Notes:

PNEC: 37.15ug/l

Lab LOD: <2.5

All values displayed as 2.5 are below LOD

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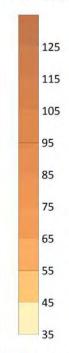
Zinc Contamination Plot - Round 1

Project: 8030252 Date: 05/10/2022 Site: Mobuoy Road Client: NIEA Drawn by: TH Checked by: PH Verified by: PH Drawn with Surfer 23

Legend



Zinc Concentration (ug/I)



Monitored Boreholes (ug/l)

Notes:

PNEC: 37.15ug/l

Lab LOD: <2.5

All values displayed as 2.5 are below LOD

Tetra Tech 1 Locksley Business Park Montgomery Road Belfast BT6 9UP

028 90706000 tetratecheurope.com



Zinc Contamination Plot - Round 2







Iron Concentration (ug/l)

Monitored Boreholes (ug/l)

Notes:

TSV: 1000ug/l

Lab LOD: <5ug/l

All values displayed as 5 are below the LOD

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028 90706000 tetratecheurope.com



Iron Contamination Plot - Round 1



Drawn by: TH

Checked by: PH

Verified by: PH

Drawn with Surfer 23

Legend



Iron Concentration (ug/I)

Monitored Boreholes (ug/l)

Notes:

TSV: 1000ug/l

Lab LOD: <5ug/l

All values displayed as 5 are below the LOD

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028 90706000 tetratecheurope.com



Iron Contamination Plot - Round 2

Project: 8030252 Date: 07/10/2022 Site: Mobuoy Road

Client: NIEA



Checked by: PH

Verified by: PH

Drawn with Surfer 23

Legend



Manganese Concentration (ug/l)

Monitored Boreholes (ug/l)

Notes:

TSV: 276.92ug/l

Lab LOD: <1ug/l

All values displayed as 1 are below the LOD

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Manganese Contamination Plot - Round 1

Project: 8030252 Date: 07/10/2022 Site: Mobuoy Road

Client: NIEA

Checked by: PH

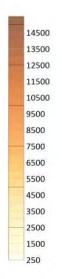
Verified by: PH

Drawn with Surfer 23

Legend



Manganese Concentration (ug/l)



Monitored Boreholes (ug/l)

Notes:

TSV: 276.92ug/l

Lab LOD: <1ug/l

Tetra Tech 1 Locksley Business Park Montgomery Road Belfast BT6 9UP

028 90706000 tetratecheurope.com

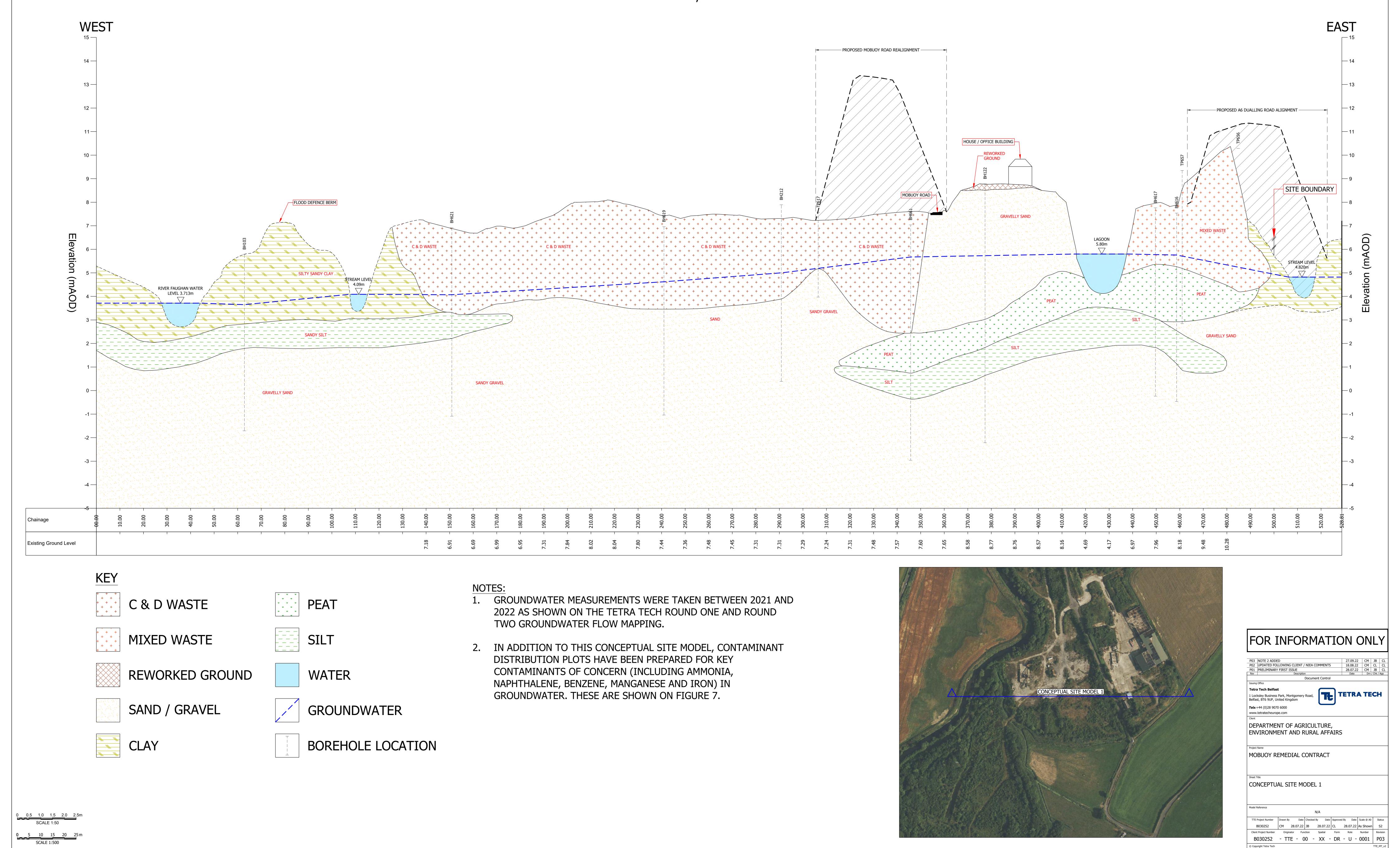


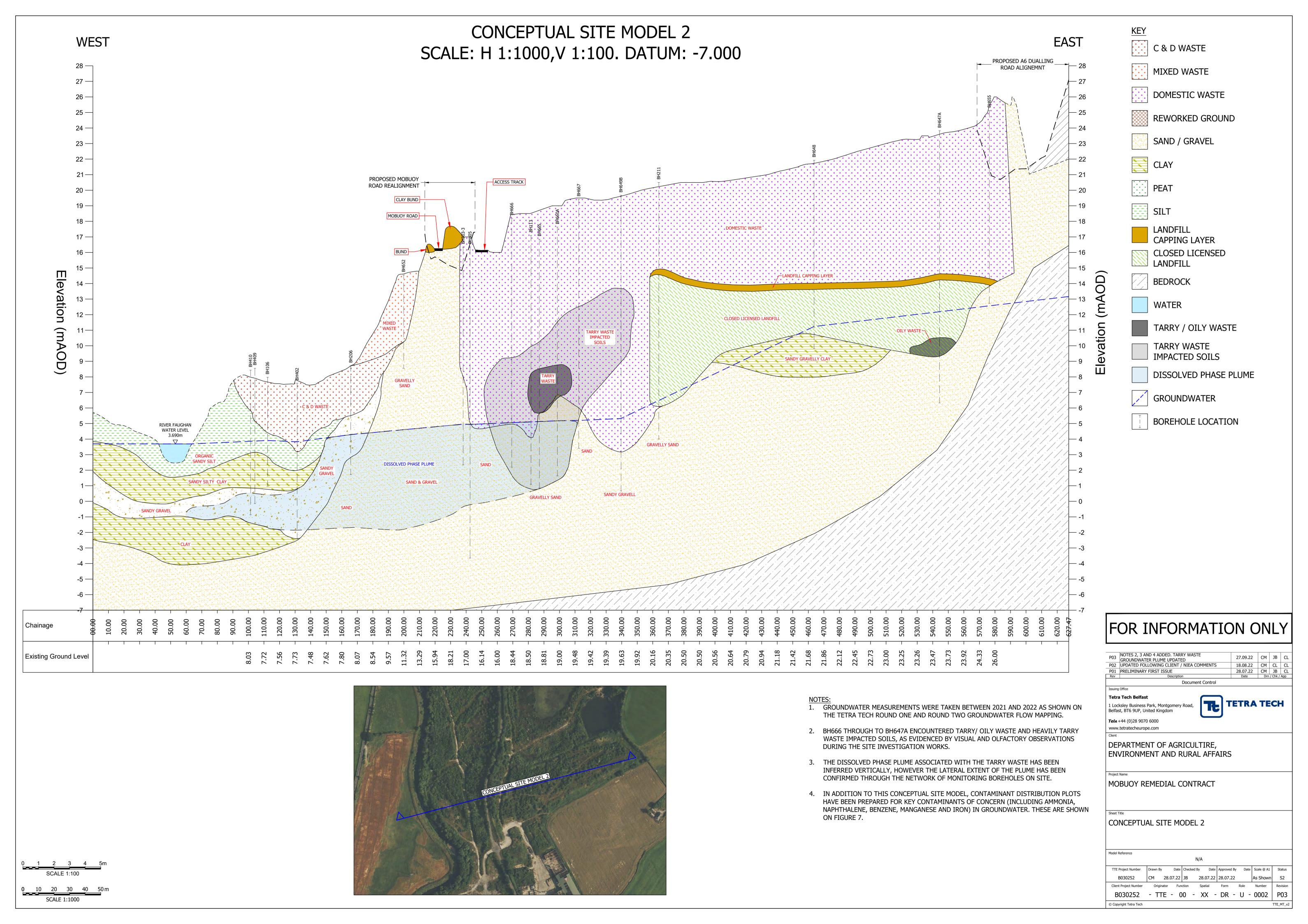
Manganese Contamination Plot - Round 2

Client: NIEA

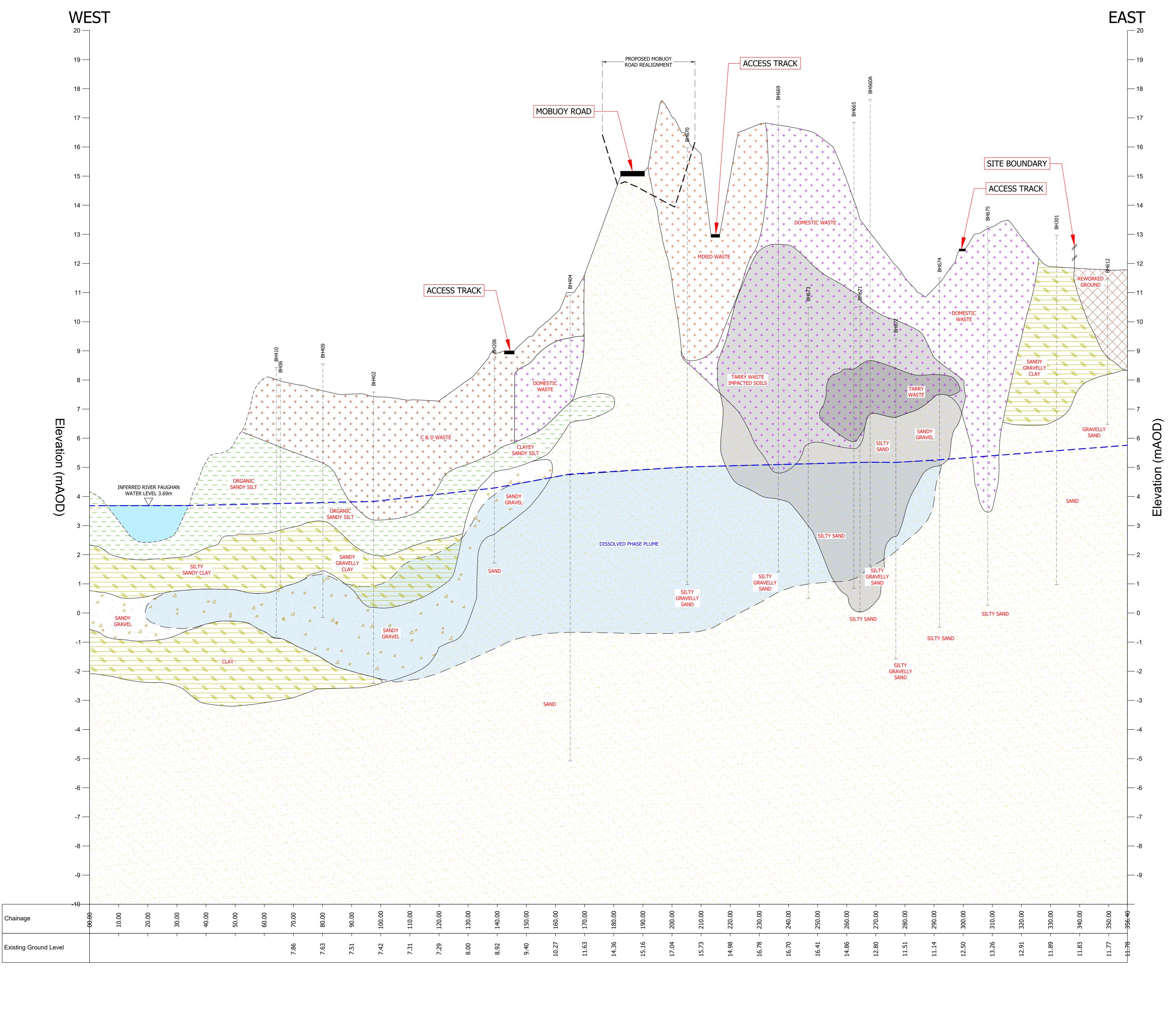
Figure 8 – Conceptual Site Models

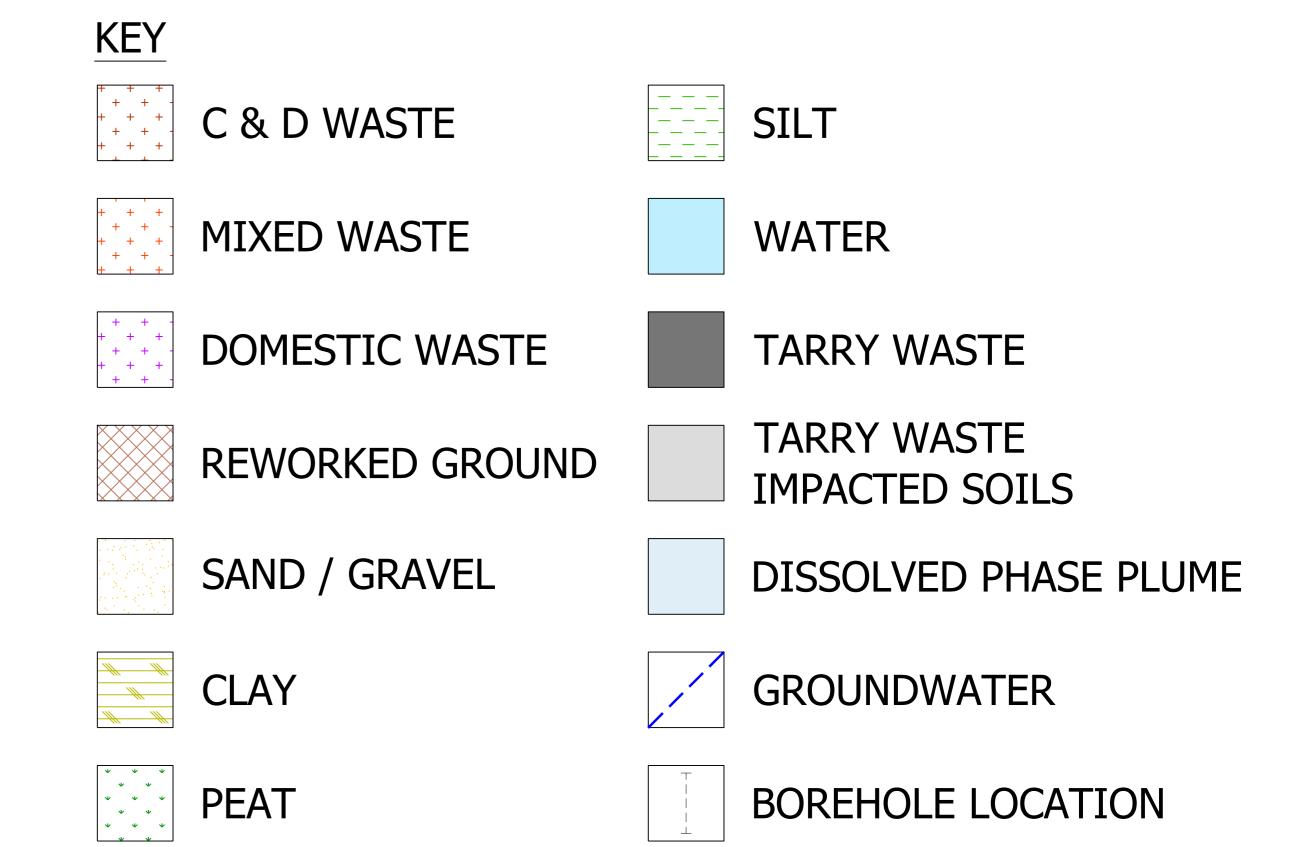
CONCEPTUAL SITE MODEL 1 SCALE: H 1:500,V 1:50. DATUM: -5.000





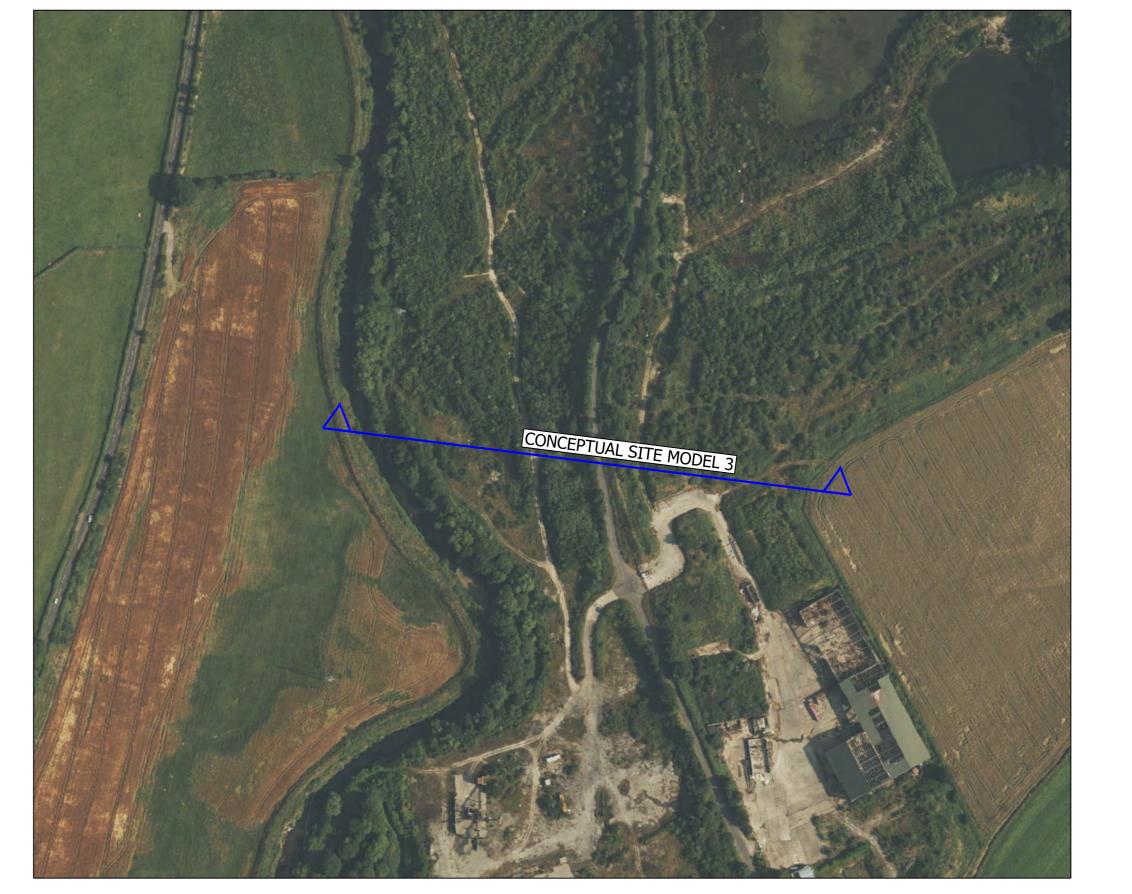
CONCEPTUAL SITE MODEL 3 SCALE: H 1:500,V 1:50. DATUM: -10.000





NOTES:

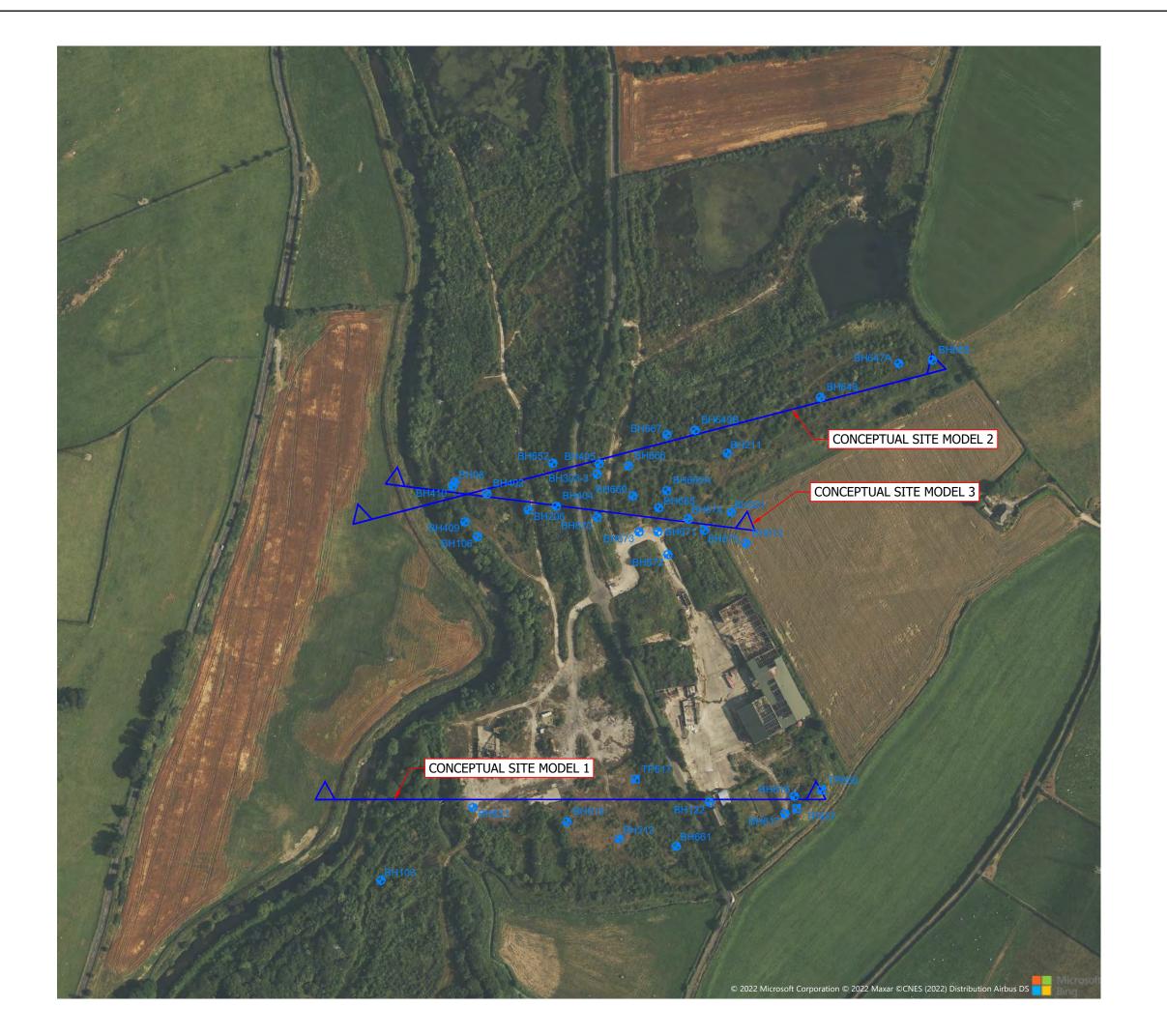
- . GROUNDWATER MEASUREMENTS WERE TAKEN BETWEEN 2021 AND 2022 AS SHOWN ON THE TETRA TECH ROUND ONE AND ROUND TWO GROUNDWATER FLOW MAPPING.
- 2. BH669 THROUGH TO BH647 ENCOUNTERED TARRY/ OILY WASTE AND HEAVILY TARRY WASTE IMPACTED SOILS, AS EVIDENCED BY VISUAL AND OLFACTORY OBSERVATIONS DURING THE SITE INVESTIGATION WORKS.
- 3. THE DISSOLVED PHASE PLUME ASSOCIATED WITH THE TARRY WASTE SOURCE HAS BEEN INFERRED VERTICALLY, HOWEVER THE LATERAL EXTENT OF THE PLUME HAS BEEN CONFIRMED THROUGH THE NETWORK OF MONITORING BOREHOLES ON SITE.
- 4. IN ADDITION TO THIS CONCEPTUAL SITE MODEL, CONTAMINANT DISTRIBUTION PLOTS HAVE BEEN PREPARED FOR KEY CONTAMINANTS OF CONCERN (INCLUDING AMMONIA, NAPHTHALENE, BENZENE, MANGANESE AND IRON) IN GROUNDWATER. THESE ARE SHOWN ON FIGURE 7.



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Rev Description Date Drn / Cl Document Control Issuing Office Tetra Tech Belfast 1 Locksley Business Park, Montgomery Road, Belfast, BT6 9UP, United Kingdom Tela +44 (0)28 9070 6000 www.tetratecheurope.com Client DEPARTMENT OF AGRICULTURE, ENVIRONMENT AND RURAL AFFAIRS Project Name	P02	UPDATED FOLLOWING CLIENT / NIEA COMMENTS	18.08.22	CM	CI
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www.tetratecheurope.com Client DEPARTMENT OF AGRICULTURE, ENVIRONMENT AND RURAL AFFAIRS Project Name	T-1-	. 44 (0)20 0070 0000	•		
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ENVIRONMENT AND RURAL AFFAIRS Project Name	-				
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FOR INFORMATION ONLY





BOREHOLE

TRIAL PIT

FOR INFORMATION ONLY

Belfast, United Kingdom, BT **Tela** +44 (0)28 9070 6000

> DEPARTMENT OF AGRICULTURE, ENVIRONMENT AND RURAL AFFAIRS

Project Name
MOBUOY REMEDIAL CONTRACT

Sheet Titl

CONCEPTUAL SITE MODEL LOCATION PLAN

Figure 9 – Site Zoning and Modelled ConSim Source Areas

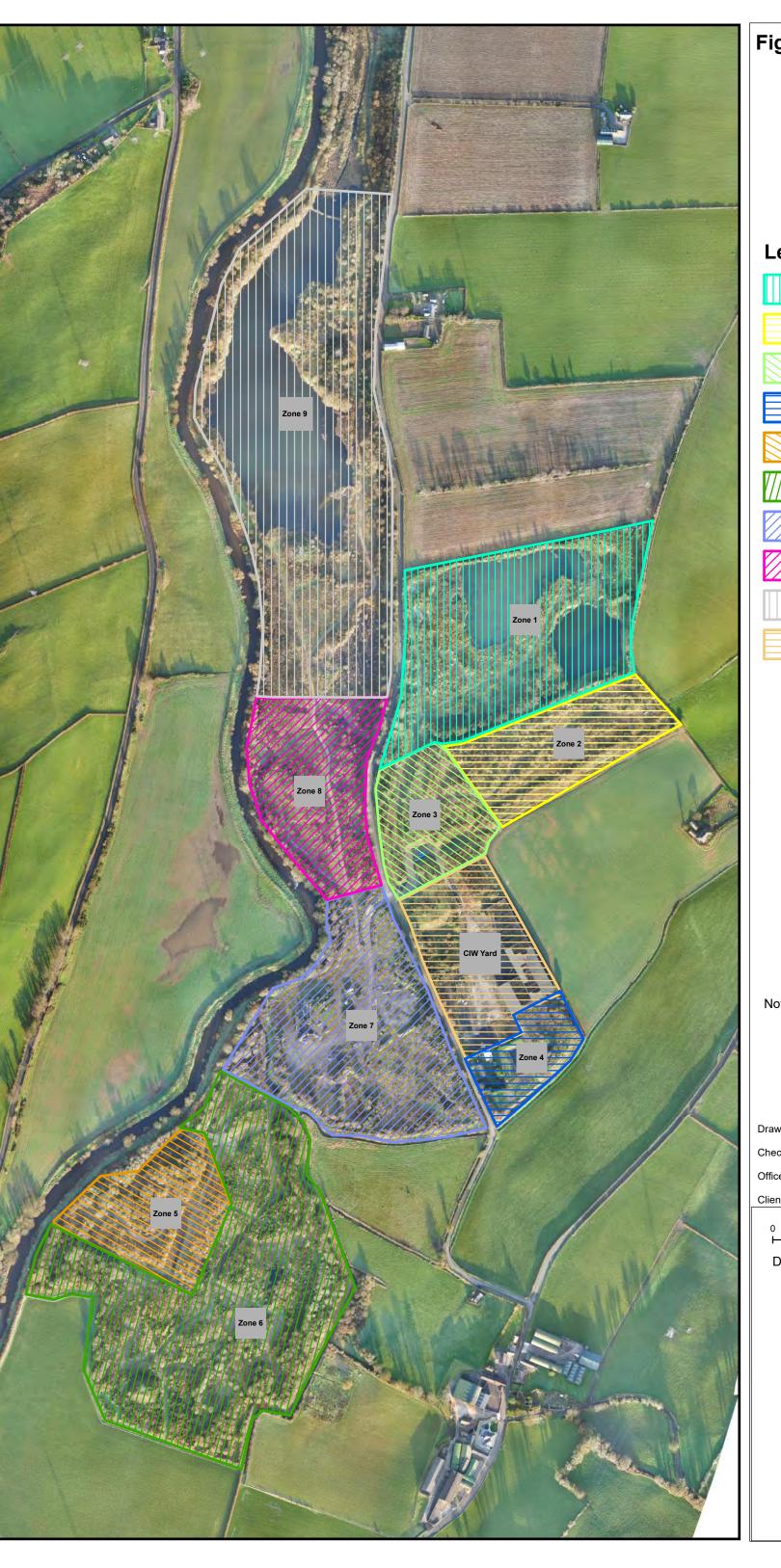
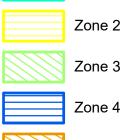


Figure 9a. Site Zoning

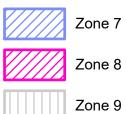
Zone 1













Note:

Drawn by: TH Checked by: PH

Revision: No.1 Office: Belfast

Project: B030252 - Mobuoy Road Remediation Client: NIEA 300 Meters

Date: 05/08/2022



Locksley Business Park Montgomery Road Belfast BT6 9UP Tel: 028 9070 6000 Email: ireland@tetratech.com

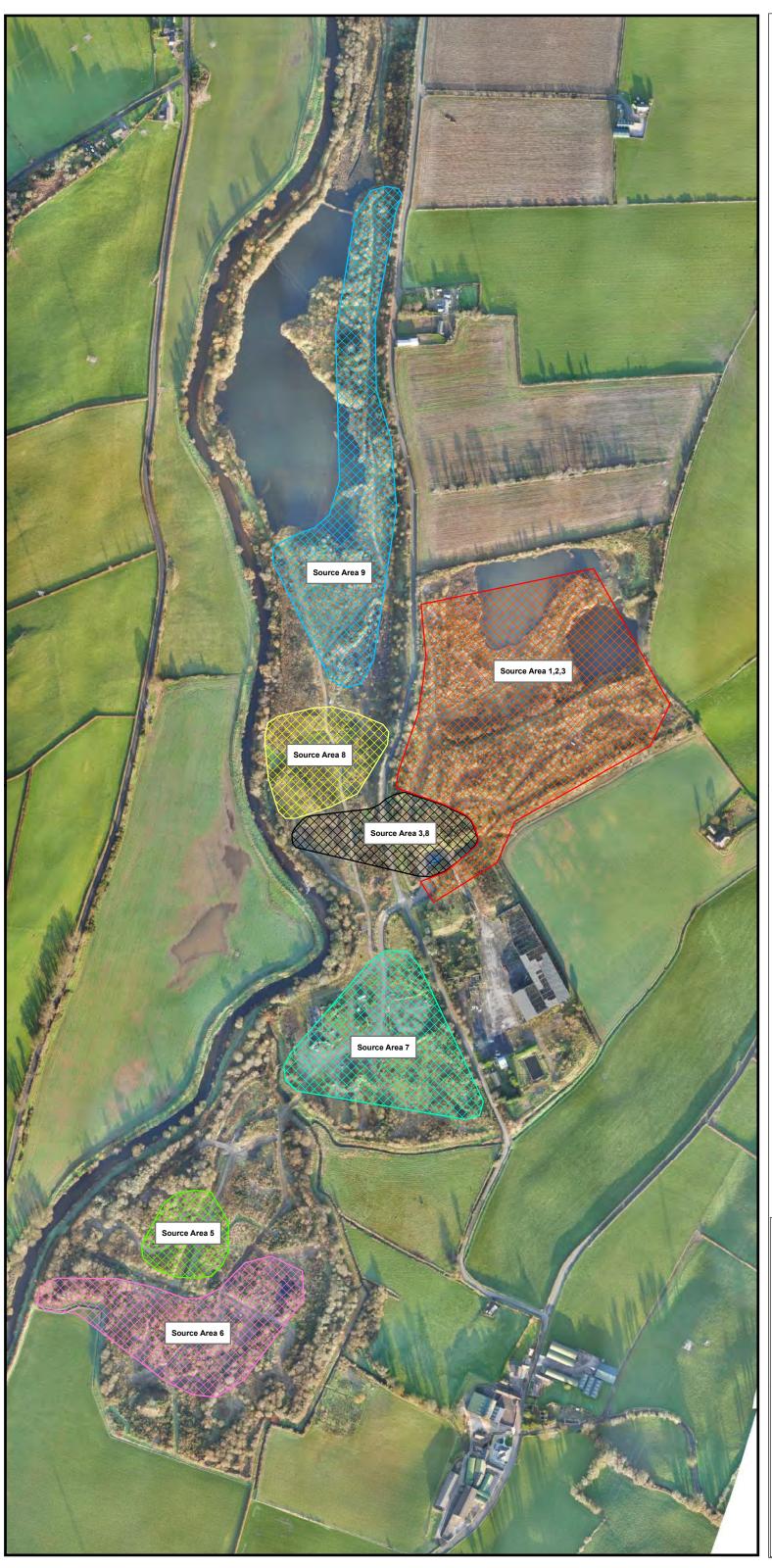


Figure 9b. Modelled ConSim Source Areas



Legend



Note:

Drawn by: TH Checked by: PH Office: Belfast Revision: No.1 Client: NIEA Project: B030252 - Mobuoy Road Remediation 300 Meters Date: 05/08/2022



Figure 10 – Summary of Modelling Risk Rating Results

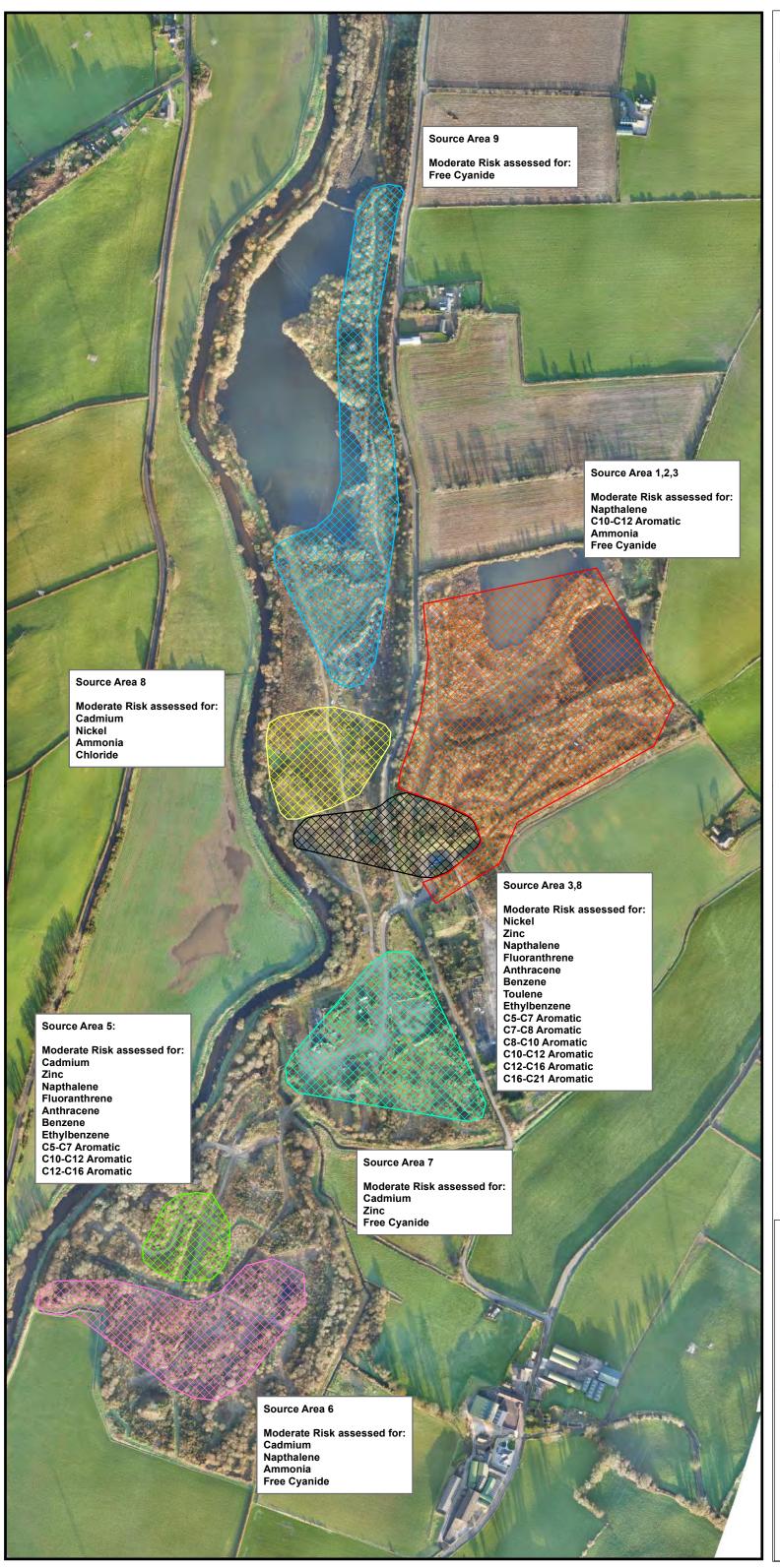
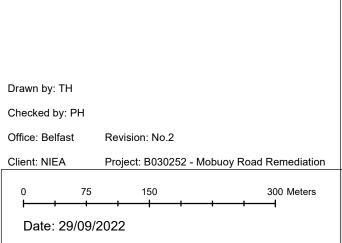


Figure 10. Summary of DQRA N results - Risk to River Faughan



Note:





APPENDIX 1 – TERMS & CONDITIONS

REPORT CONDITIONS

Mobuoy Updated DQRA

This report is produced solely for the benefit of **NIEA**, and no liability is accepted for any reliance placed on it by any other party unless specifically agreed in writing otherwise.

This report is prepared for the proposed uses stated in the report and should not be used in a different context without reference to Tetra Tech. In time improved practices, fresh information or amended legislation may necessitate a re-assessment. Opinions and information provided in this report are on the basis of Tetra Tech using due skill and care in the preparation of the report.

This report refers, within the limitations stated, to the environment of the site in the context of the surrounding area at the time of the inspections. Environmental conditions can vary, and no warranty is given as to the possibility of changes in the environment of the site and surrounding area at differing times.

This report is limited to those aspects reported on, within the scope and limits agreed with the client under our appointment. It is necessarily restricted, and no liability is accepted for any other aspect. It is based on the information sources indicated in the report. Some of the opinions are based on unconfirmed data and information and are presented as the best obtained within the scope for this report.

Reliance has been placed on the documents and information supplied to Tetra Tech by others but no independent verification of these has been made and no warranty is given on them. No liability is accepted, or warranty given in relation to the performance, reliability, standing etc of any products, services, organisations or companies referred to in this report.

Whilst skill and care have been used, no investigative method can eliminate the possibility of obtaining partially imprecise, incomplete or not fully representative information. Any monitoring or survey work undertaken as part of the commission will have been subject to limitations, including for example timescale, seasonal and weather-related conditions.

Although care is taken to select monitoring and survey periods that are typical of the environmental conditions being measured, within the overall reporting programme constraints, measured conditions may not be fully representative of the actual conditions. Any predictive or modelling work, undertaken as part of the commission will be subject to limitations including the representativeness of data used by the model and the assumptions inherent within the approach used. Actual environmental conditions are typically more complex and variable than the investigative, predictive and modelling approaches indicate in practice, and the output of such approaches cannot be relied upon as a comprehensive or accurate indicator of future conditions.

The potential influence of our assessment and report on other aspects of any development or future planning requires evaluation by other involved parties.

The performance of environmental protection measures and of buildings and other structures in relation to acoustics, vibration, noise mitigation and other environmental issues is influenced to a large extent by the degree to which the relevant environmental considerations are incorporated into the final design and specifications and the quality of workmanship and compliance with the specifications on site during construction. Tetra Tech accept no liability for issues with performance arising from such factors.

APPENDIX 2- EXPLORATORY LOGS (2021/2022)

		AUSEV GEOT					0242	Client:						BH63	
Meth Cable Per		Plant Used Dando 3000	Top (m)	_	(m) 20	Coord	dinates	Final De	epth: 7.20 m	Start Date:	23/03/2022	Driller: (C I	Sheet 1 c Scale: 1:	
							36.10 E 07.20 N	Elevatio	on: 4.38 mOD	End Date:	23/03/2022	Logger: S		FINA	
Depth (m)	Sample / Tests	Field Record	s	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend			cription	'	Water	Backfill	
							-		MADE GROUND: Ve	ery soft brown	ish grey SILT wit	h rubble.			
	504						-								
50	ES1					3.78	0.60	***	Soft greyish brown	slightly sandy	gravelly SILT. Sar	nd is fine to c	oarse.		0.
							-	* * * * * * * * * * * * * * * * * * *	Gravel is subangula	r fine to medi	um.				
00	ES2					3.38	1.00	° ° 0	Brown sandy angula cobble content. Sar						1.
							E	9 9	subrounded.	id is fille to co	iasi e. Cobbles ai	e subangulai	10		
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						-2.82	7.20			End of Bore	ehole at 7.20m				
			,							3					
ck at (m) (Water S	Strikes Time (min) Rose to	(m) From	Chis	elling To (m	Details	e (hh:mm)	Remarks							
on at (III)	casing to (III)	(ilili) Rose to	, 110111	\''' <i>I</i>	11) 01	', '""	()	DTB 3.50r	11						
Casing I	Details Diameter	Water Added From (m) To (m)												
7.20	200	10 (11)													
								Terminat	tion Reason				Last Update		
								Terminate	ed on refusal.				28/06/2022	A	
															_

	C	AUS			A					ect No. 0242	roject Name: Mobuoy Remediation Project Phase 2 ient: DAERA/NIEA			reho	le ID 10
Meth	hod	Plant U	Ised		Ton	(m)	Base	(m)	Coord	dinates	ient's Rep: Tetra Tech		Sh	eet 1	of 2
Cable Per Rotary D Rotary (rcussion Orilling	Dando Beretta Beretta	2000 a T44)	0.0 5.0 5.3	00 00	5.0 5.3 10.8	0	24801	10.98 E 24.34 N		r: SF+TH	Sc	cale:	1:50
Depth	Sample /						Casing	Water	Level	Depth		31 - 111			
(m)	Tests	Fie	eld Re	cords			Casing Depth (m)	Water Depth (m)	mOD	(m)	Description MADE GROUND: Greyish brown sandy silty CLAY. Sand is	ne to	Water	Backfi	"
0.30 0.70	ES1 ES2								14.96	0.20	coarse. MADE GROUND: Soft black CLAY with fragments of wood glass.	/	•		0.5
0.80 - 1.10 1.20 - 1.65	В7	N=6 (2,2/2,2	,1,1)	Hamr	mer SI	N =	1.50	Dry					•		1.0 -
		1264											•		1.5
2.00	ES3								13.26	1.90	MADE GROUND: Firm grey slightly sandy slightly gravelly is fine to coarse. Gravel is fine to coarse angular.	CLAY. Sand			2.0 -
									12.96	2.20	MADE GROUND: Black DOMESTIC WASTE consisting of pl wood, glass and tyres.	stics,	•		2.5
3.00	ES4												•		3.0
4.00	ES5												•		4.0 =
1.80 - 5.00 1.80 - 5.00 1.80 - 4.89		N=50 (28 for							10.36	4.80	Weathered PEILTE recovered as very silty very sandy ang coarse GRAVEL. Sand is fine to coarse.	lar fine to	•		5.0 -
5.00 5.68	ES6	45mm) Hamı	mer s	N = 1	204				9.86	5.30	Weak very narrowly foliated grey PELITE. Partially weather reduced strength, closer fracture spacing, dark orangish I discolouration on fracture surfaces. Discontinuities: 1. 5-joints, medium spaced (40/480/1500), planar, rough, dar	rown 0 degree			5.5
6.30	C2		100	70	30	11					brown staining on joint surfaces. 2. 50-60 degree foliation closely spaced (10/95/85), undulating, smooth, dark oran staining on fractures surfaces, orangish brown silty clay in fracture surfaces (1-2mm thick). 3. 70-80 degree joints, reference in the control of the control o	fractures, gish brown fill on some	•		6.0 -
6.50 6.70	C3					>20				(2.90)	spaced (45/480/230), undulating, smooth, dark orangish staining on joint surfaces.	I	•		6.5
			100	30	15						Extremely weak indistinctly very narrowly foliated dark g (possible fault gouge). Partially weathered: further weak	ned, much	•		7.0 -
7.85	C4					18					closer fracture spacing, dark orangish brown discolourati throughout, orangish brown clay infill on some fracture s Discontinuities: 1. 50-60 degree foliation fractures, closel (2/65/70), planar, rough, dark orangish brown staining or	rfaces. spaced fracture	•		8.0 -
3.20						NI			6.96	8.20	surfaces, orangish brown clay infill on some fracture surfaces. 3mm thick). Medium strong very narrowly foliated PELITE. Partially widark orangish brown discolouration on fracture. surfaces		•		8.5
			91	29	17	>20				(1.00)	Discontinuities: 1. 5-10 degree joint, at 9.09m, planar, roo orangish brown staining on joint surface. 2. 55-65 degree	foliation		::F	9.0 -
9.24	C5		TOD	SCR	PO5	NI FI			5.96	9.20	fractures, at 9.23m and 9.32m, undulating, smooth, dark brown staining on joint surfaces.	orangish			:
	Water	Strikes	ICR	SUR	KQD		Chise	elling	Details	<u> </u>	marks				1
Casing I		Water	Add		n) Fr	rom (I	m)	To (n	n) Tim	e (hh:mm)	nd dug inspection pit excavated to 1.20m				
5.00	200			. ,	7_,	Coro	Barre	al T	Flush	Type	mination Reason	Last Upo	latod		
					Ι'	COIE	Daile	-"	rusfi	ype	mmadon neason	28/06/2			Ш

		GEC	OTE	ECI	Н			22-	ect No. 0242	Project Client: Client's	Name: Mobuoy DAERA/1 Rep: Tetra Tec	NIEA	on Project Ph	ase 2			oreh BH	610)
Method Cable Percussi Rotary Drillin Rotary Coring	g Berett	2000 a T44)	0. 5.	(m) 00 00 30	5.3	00	2480	10.98 E 24.34 N	Final De			16/11/2021		MK+PJ SF+TH		Sheet Scale FIN		50
Depth (m)	amples / Field Records	TCR	SCR	RQD	FI	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend	1	Des	cription	ļ.		Water	Bac	kfill	
(m) 9.70	Vater Strikes to (m) Time (min)	98 TCR	25	10 RQD	6 >20	Chis		5.46 4.36	(0.50)	Remarks	Medium strong verdark orangish brow Discontinuities: 1. 5 orangish brown stain fractures, at 9.23m brown staining on juvery weak very narifurther weakened, in discolouration on so surfaces. Discontini rough, grey silty cladegree foliation frapatchy dark orangis silty clay infill on mo 10.40-10.80m: Extremely	y narrowly fol n discolourati i-10 degree jo ining on joint : and 9.32m, ui oint surfaces. rowly foliated much closer frome fractures uities: 1. 10-2 y infill on joint ctures, closely in brown stain ost fracture sue week (possible faurent of Bores). End of Bores	inted PELITE. Par on on fracture. s int, at 9.09m, pla surface. 2. 55-65 ndulating, smoot grey PELITE. Par racture spacing, v surfaces, clay infi 0 degree joint, at t surface (15mm spaced (1/5mm ing on fractures urfaces (up to 25)	urfaces anar, rough degree for th, dark or tially weat orangish b ill on most t 9.80m, u thick) 2.5 00), planar urfaces, gr	h, dark oliation angish whered: rown fracture ndulating, 0-60 r, rough, ravelly	Wa	**************************************		9.5 · · · · · · · · · · · · · · · · · · ·
		_	ed o (m)			Barr K6L	·el		ı Type		ion Reason d on engineers instru	uction			Last U p 28/06,			Λ.	

Cable Percussion Dando 2000 0.00 0.00 0.00 0.00 247873 65 E 417956.50 N Elecution: 18.61 mOD End Date: 22/13/2013 Origine: MC Scale 1.00 Mc Mc Mc Mc Mc Mc Mc			CAUS					22	ject No. -0242	Client: DAERA/NIEA Client's Rep: Tetra Tech	orehole ID BH611
Subject to the state of the sta						_		247	873.65 E	Final Depth: 10.30 m Start Date: 23/11/2021 Driller: MK	Sheet 1 of 2 Scale: 1:40 FINAL
MADE GROUND: Firm brownish black growiny CLAX Graved is adjusted to coarse. ### ADD GROUND: Firm brownish black growiny CLAX Graved is adjusted to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angular to subsingular fine to coarse. ### ADD GROUND: Black sandy angul			Fiel	d Records		Depth	Water Depth (m)			Legend Description	Backfill
1.00 2.53 1.00								18.01	- 0.60	MADE GROUND: Firm brownish black gravelly CLAY. Gravel is subangular to angular fine to coarse. MADE GROUND: Black sandy angular to subangular fine to coarse GRAVEL with general waste including shredded plastics. Sand is fine	0.5
Decision of the process of the proce	2.00	ES3						17.21	1.40		2.0
MADE GROUND: Grey silty sandy angular to subangular fine to coarse GRAVEL with fragments of concrete and brick. Sand is fine to coarse. Gravel is angular to subangular fine to coarse. MADE GROUND: Brownish grey silty sandy angular to subangular fine to coarse. MADE GROUND: Brownish grey silty sandy angular to subangular fine to coarse. MADE GROUND: Brownish grey silty sandy angular to subangular fine to coarse. MADE GROUND: Brownish grey silty sandy angular to subangular fine to coarse. MADE GROUND: Brownish grey silty sandy angular to subangular fine to coarse. MADE GROUND: Brownish grey silty sandy angular to subangular fine to coarse. MADE GROUND: Brownish grey silty sandy angular to subangular fine to coarse. MADE GROUND: Brownish grey silty sandy angular to subangular fine to coarse. MADE GROUND: Brownish grey silty sandy angular to subangular fine to coarse. MADE GROUND: Brownish grey silty sandy angular to subangular fine to coarse. MADE GROUND: Brownish grey silty sandy angular to subangular fine to coarse. MADE GROUND: Brownish grey silty sandy angular fine to coarse. MADE GROUND: Brownish grey silty sandy angular fine to coarse. MADE GROUND: Brownish grey silty sandy angular fine to coarse. MADE GROUND: Brownish grey silty sandy angular fine to coarse. MADE GROUND: Brownish grey silty sandy angular fine to coarse. MADE GROUND: Brownish grey silty sandy angular fine to coarse. MADE GROUND: Brownish grey silty sandy angular fine to coarse. MADE GROUND: Brownish grey silty sandy angular fine to coarse. Made GROUND: Brownish grey silty sandy angular fine to coarse. MADE GROUND: Brownish grey silty sandy angular fine to coarse. MADE GROUND: Brownish grey silty sandy angular fine to coarse. MADE GROUND: Brownish grey silty sandy angular fine to coarse. MADE GROUND: Brownish grey silty sandy angular fine to coarse. MADE GROUND: Brownish grey silty sandy angular fine to coarse. MADE GROUND: Brownish grey silty sandy angular fine to coarse can sandy angular fine to coarse. MADE GROUN	3.00 3.00 - 3.45			1,2) Hamr	mer SN =	3.00	Dry		-	to subrounded of shale, brick and concrete. MADE GROUND: Black silty angular to subangular fine to coarse	3.0
coarse. Gravel is angular to subangular fine to coarse. A.80	4.00	ES5						14.41	- 4.20		3.5 4.0
Water Strikes Chiselling Details truck at (m) Casing to (m) Time (min) Rose to (m) From (m) To (m) 70 (m) 10 ameter From (m) 10 (m) 6.00 200 Casing Details Water Added To (m) Diameter From (m) 10	5.00	ES6						13.81	4.80	coarse. Gravel is angular to subangular fine to coarse. MADE GROUND: Brownish grey silty sandy angular to subangular fine to coarse GRAVEL of brick and concrete with fragments of wood,	4.5 5.0
Water Strikes Chiselling Details truck at (m) Casing to (m) Time (min) Rose to (m) From (m) To (m) Time (hin:mm) 9.40 10.30 01:30 Casing Details To (m) Diameter From (m) To (m) 6.00 200 Termination Reason Remarks Hand dug inspection pit excavated to 1.20m Move to redrill BH611A	6.00	ES7						13.21	- 5.40	of organic peaty material. Gravel is subangular fine to coarse of brick	6.0
truck at (m) Casing to (m) Time (min) Rose to (m) From (m) To (m) Time (hh:mm) 9.40 10.30 01:30 Casing Details Water Added To (m) Diameter From (m) To (m) From (m) To	7.00	ES8							-		7.0
Casing Details Water Added To (m) Diameter From (m) To (m) 6.00 200 Time (min) Rose to (m) From (m) To (m) To (m) Time (hh:mm) To (m) To (m) Time (hh:mm) To (m) Time		Water	r Strikes			Chis	sellin	g Deta	ils	Remarks	
Termination Reason Last Updated	Casing D	Casing to (m Details Diameter	Time (min)	Added		(m)	To (m) T	ime (hh:mm)		
Terminated on concrete obstruction 29/06/2022	6.00	200								Termination Reason Last Update	ed 🔳 🔳
20/00/2022										Terminated on concrete obstruction 28/06/202	

		CAUSEV				22-	ect No. 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole II
Metho Cable Perci		Plant Used Dando 2000	Top (m)	10.	-	24787	73.65 E	Final Depth: 10.30 m Start Date: 23/11/2021 Driller: MK Elevation: 18.61 mOD End Date: 23/11/2021 Logger: SF	Sheet 2 of 2 Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field Record	İs	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description	ja ta Backfill
.00	ES9					10.81	7.80	MADE GROUND: Firm brownish grey gravelly silty CLAY with pocket of organic peaty material. Gravel is subangular fine to coarse of brid and concrete. MADE GROUND: Black WASTE in a silty gravel matrix. Gravel is angular to subangular fine to coarse of brick and concrete. with fragments of glass, metal, shredded plastic and ceramics.	5
00	ES10					9.21	- - - - - - 9.40	MADE GROUND: Grey silty sandy subangular fine to coarse GRAVEL of brick and concrete, Sand is fine to coarse.	9.0
0.00	ES11						_		10.0
uck at (m) Ca		r Strikes ı) Time (min) Rose to	(m) From		elling	; Detail s m) Tim	5. he (hh:mm)	Remarks Hand dug inspection pit excavated to 1.20m Move to redrill BH611A	10.5 11.6 11.6 12.6 12.9 13.6 14.6
Casing Do	etails Diameter	Water Added	9.4		10.3		01:30	nana aug inspection pit excavated to 1.20m viove to fedfill briotta	
6.00	200							Termination Reason Last	Updated T
								Terminated on concrete obstruction 28/	06/2022 AG

	AUSEW GEOT	ECH		22-	ect No. 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	В	orehole ID BH611A
Method Cable Percussion	Plant Used Dando 3000	0.00	ase (m) 13.00	24787	72.24 E	Final Depth: 13.00 m Start Date: 01/12/2021 Driller: CC	S	neet 1 of 2 scale: 1:40
Depth Sample /		Ca	sing Water	41795 Level	58.82 N	Elevation: 18.68 mOD End Date: 02/12/2021 Logger: SF		FINAL
(m) Tests	Water strike at 3.00m		peth Depth (m)	18.08 17.38 15.88 15.58 14.48 13.88	2.80 - 3.10 - 4.20	MADE GROUND: Firm brown and black sandy gravelly CLAY. San fine to coarse. Gravel is subangular to subrounded fine to coarse GRAVEL with plastics. Sand is fine to coarse. MADE GROUND: Black saity sandy subangular to subrounded fine coarse GRAVEL with plastics. Sand is fine to coarse. MADE GROUND: Black sandy gravelly SILT with high volume of shredded plastic, metal, timber, textiles and tyres. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. MADE GROUND: Black silty sandy subangular to subrounded fine coarse GRAVEL with plastics. MADE GROUND: Firm greyish black sandy gravelly CLAY with fragments of brick, plastic, timber and metal. Sand is fine to coarse is subangular to subrounded fine to coarse. MADE GROUND: Firm brown and grey sandy gravelly SILTY fragments of plastic, timber, metal, carpet and tyre. Sand is fine coarse. Gravel is subangular to subrounded fine to coarse. MADE GROUND: Firm black and brownish grey sandy gravelly SILTY fragments of plastic, timber, metal, carpet and tyre. Sand is fine coarse. Gravel is subangular to subrounded fine to coarse.	e to ety ety vith to	0.5 1.0 1.5
	Strikes Time (min) Rose to (i			g Details m) Tim	s ne (hh:mm)	Remarks Hand dug inspection pit excavated to 1.20m		·
To (m) Diameter 13.00 150	From (m) To (m)					Termination Reason L	st Update	. I

		CAUSI					22-	ect No. -0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	BH611A
Meth Cable Per		Plant Us Dando 30		Top (m) 0.00	Base 13.		2478	372.24 E 958.82 N	Final Depth: 13.00 m Start Date: 01/12/2021 Driller: Elevation: 18.68 mOD End Date: 02/12/2021 Logger:	Scale: 1:40
Depth (m)	Sample / Tests	Field	Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description	म् स्र Backfill
									MADE GROUND: Firm black and brownish grey sandy gravel with plastics, carpet, polystyrene, red brick, metal, rubber, t tiles and concrete. Sand is fine to coarse. Gravel is subangul subrounded fine to coarse.	ly SILT extiles.
							8.68	10.00	MADE GROUND: Brownish grey slightly silty slightly gravelly coarse SAND. Gravel is subrounded to rounded fine to medi	
2.00	B3 ES1						7.88	10.80	Medium dense greyish brown silty fine to coarse SAND	
3.00 - 13.4	15 SPT (S)	N=27 (4,4/5,6, 0197	7,9) Ham	mer SN =	13.0	Dry	5.68	- 13.00	End of Borehole at 13.00m	13.
	Wate	r Strikes		T	Chis	elling	Detail		Remarks	14.
Casing I	Casing to (n 3.00 Details	n) Time (min) R) From		To (r		me (hh:mm)	Hand dug inspection pit excavated to 1.20m	
13.00	150								Termination Reason	Last Updated
									Ferminated due to casing refusal	28/06/2022

Dynamic Sampling Dando Terrier 0.00 5.00 Final Depth: 5.00 m Start Date: 26/11/2021 Driller: CC 247937.14 E 417888.30 N Elevation: 11.69 mOD End Date: 26/11/2021 Logger: SF			GEOT				0242	Client's Rep: Tetra Tec			BH612
Mate Strikes Casing Details Remarks						2479	37.14 E				Sheet 1 of 1 Scale: 1:50 FINAL
1.50			Field Records		Casing Water Depth (m) (m)				·		Backfill
SPT (S) N=14 (2,3/3,3,4,4) Hammer SN = 3.00 Dry	00 00 - 1.45 00	ES2 U5	N=11 (2,2/2,3,3,3) Har	nmer SN =	Dry	8.99	2.70	roots and pockets o subangular to subro	f silty sand. Sand is fine to coars ounded fine to coarse of sandsto	se. Gravel is one and rare brick.	0.5 1.6 2.6 2.5
N=27 (4,5/6,6,7,8) Hammer SN = 5.00 Dry		- 1		mmer SN =	3.00 Dry		- - - -	Medium dense brov Gravel is subangular	wn slightly gravelly silty fine to n r fine to medium of quartz.		3.5
Water Strikes Water Strikes Casing Details July 2, 43,5,6,6,7,8) Hammer SN = 5.00 bry 0.6.99 Water Strikes Casing Details To (m) Diameter Hand dug inspection pit excavated to 1.20m	00 - 4.45	SPT (S)		mmer SN =	4.00 Dry		-				4.
ruck at (m) Casing to (m) Time (min) Rose to (m) To (m) Diameter Hand dug inspection pit excavated to 1.20m	00 - 3.43	3-1 (3)		illilei SN –	3.00 DIY	0.09	3.00		End of Borehole at 5.00m		5. 5. 6. 6. 7. 7. 8. 8.
ck at (m) Casing to (m) Time (min) Rose to (m) To (m) Diameter Hand dug inspection pit excavated to 1.20m							-				9.0
	uck at (m) Ci			m) To (m) Diam	eter _F		nspection pit excavated to 1.20m			
Termination Reason Last Updat						1	erminati	on Reason		Last Up	dated

		AUSEW GEOTE		Dog ()		0242	Client's	DAERA/N				BH613
Meth o		Plant Used Dando Terrier	Top (m) 0.00	Base (m) 2.50	24783	37.69 E 43.56 N	Final De		Start Date: 21/12/202. End Date: 21/12/202.			Sheet 1 of 1 Scale: 1:50 FINAL
Depth (m)	Sample / Tests	Field Records		Casing Water Depth Depth (m) (m)	Level mOD	Depth (m)	Legend		Description		Water	Backfill
.50 .50 - 2.00 .00	ES1 B4 ES2				15.02	- 0.50 		cobbles and boulde angular fine to coar MADE GROUND: Bla	ift brown slightly sandy grav rs at surface. Sand is fine to se of pelite. ack and dark brown slightly ments of timber, rubber, pla	coarse. Gravel is sandy slightly grave	lly	
00	ES3				13.02	2.50			End of Borehole at 2.50r	n		2.
						- - - - - - - - - - - - - - - - - - -						4.
						- - - - - - - - - - - - - - - - - - -						6.
						- - - - - - - - - - - - - - - - - - -						7.
						-						9.
uck at (m) C	Water asing to (m)	Strikes Time (min) Rose to (n		ing Detai		emarks	spection p	it excavated to 1.20m	1		ı	4 1
						ouncia -+*	m Dag			T a	llmd-	od I
						ermination	n Reasor				Updat /06/202	

C	AUSEN	AY ECH			ect No. 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH614
Method Synamic Sampling	Plant Used Dando Terrier	Top (m) B	Sase (m) 5.00	Coor	dinates	Final Depth: 5.00 m Start Date: 19/11/2021 Driller: J	Sheet 1 of 1
ynamic Sampling	bundo remer	0.00	3.00		19.27 E 26.88 N	Elevation: 7.80 mOD End Date: 19/11/2021 Logger: S	Scale: 1:50 FINAL
Depth Sample / (m) Tests	Field Records	, [Casing Water Depth Depth (m) (m)	Level mOD	Depth (m)	Legend Description	Backfill
(m) Tests 30 - 0.50 ES1 55 - 0.70 ES2 00 - 1.20 ES3	Field Records	, [Depth Depth			MADE GROUND: CONCRETE. MADE GROUND: Dark greyish brown sandy subangular to subrounded fine to coarse GRAVEL with high cobble content at timber fragments. MADE GROUND: Dark grey sandy silty subangular to subround fine to coarse GRAVEL. Sand is fine to coarse. MADE GROUND: Dark grey sandy silty GRAVEL with low cobble content. Sand is fine to coarse. Gravel is subangular fine to coarse. Firm greenish brown slightly gravelly SILT. Gravel is subrounded subangular of semi-pelite. Light yellowish brown silty fine to medium SAND with frequent seams of brown sandy SILT. Sand is fine to medium. Brown silty fine to coarse SAND with seams of brown sandy grays Sand is fine to coarse. Gravel is subangular to subrounded of quality fine to coarse. Gravel is subangular to subrounded of quality fine to coarse. Gravel is subangular to subrounded of quality fine to coarse. Gravel is subangular to subrounded of quality fine to coarse. Gravel is subangular to subrounded of quality fine to coarse. Gravel is subangular to subrounded of quality fine to coarse.	nd rare ed 1.5 1.5 1.5 2.0 2.5 3.5 3.5 4.0 4.0
	Strikes Time (min) Rose to (20 2.00		ng Detail Diame 150	eter H	erminati	pection pit excavated to 1.20m	7.5 8.6 8.5 9.6

	9	CAUSEN	/AY ECH				ct No. 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH615
Meth	hod	Plant Used	Top (m)	Rase	(m)	Coord	linates	client's kep: Tetra Tech	Sheet 1 of 2
Cable Per Rotary D	rcussion	Dando 2000 Beretta T44	0.00 12.00	12.0 16.0	00	24796	4.62 E	Final Depth: 16.00 m Start Date: 05/01/2022 Driller:	PJ+DE Scale: 1:50
								Elevation: 8.24 mOD End Date: 27/01/2022 Logger:	
Depth (m)	Sample / Tests	Field Records	s	Casing Depth (m)	Water Depth (m)	mOD	Depth (m)	Legend Description	S Backfill
.50 .00 .00 .30 .50 .60 .80 .00 .00 - 2.45 .50	ES1 B6 ES2 B7 ES3 B8 ES4 B9 ES5 SPT (S) D10	N=4 (1,0/1,1,1,1) Ham 1368	nmer SN =	2.00		6.94 6.64 6.34 4.94 3.44 2.94	1.30 1.60 1.90 3.30	MADE GROUND: Grey slightly sandy angular to subangular fine coarse GRAVEL with low cobble content. Sand is fine to coarse Cobbles are angular. MADE GROUND: Black WASTE in a silt matrix. Waste comprise abundant shredded plastics, paper, cardboard, timber and me MADE GROUND: Grey sandy silty angular to subangular fine to GRAVEL. Sand is fine to coarse. MADE GROUND: Soft brown sandy gravelly SILT. Sand is fine to coarse. Gravel is subrounded fine to medium. MADE GROUND: Soft brown sandy gravelly SILT. Sand is fine to coarse. Gravel is subrounded fine to medium. Plastic brown amorphous PEAT. Mic. Silc. S	es. 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.
		C 1	1	<u> </u>			<u> </u>		
Casing I	Casing to (m Details Diam (mm))		elling I	Details) Tim	e (hh:mm)	emarks and dug inspection pit excavated to 1.20m NB: Deeper install used 38mr	n diameter pipe
12.00	200	4.00 12.00		Barre	el	Flush	Type	ermination Reason	Last Updated
			2016	. Suiic		4311	.,,,,		

CAUSEWAY					Proje	ct No.	Project Name: Mobuoy Remediation Project Phase 2 Borehole ID						
	CAUS	SEW	AY		22-	0242	Client: DAERA		BH615				
	(GEOTE	СН				Client's Rep: Tetra Te	ch					
Method able Percussion Rotary Drilling	Plant Dando Berett	2000	Top (m) 0.00 12.00	Base (m) 12.00 16.00	Coordinates 247964.62 E		Final Depth: 16.00 m	Start Date: 05/0	01/2022	Driller: PJ+I	Sheet 2 of 2 Scale: 1:50		
Notary Drilling	Berett	.a 144	12.00			30.68 N	Elevation: 8.24 mOE	End Date: 27/01/2022		Logger: SF		FINAL	
Depth Samp (m) Test		ield Records		Casing Water Depth Depth (m) (m)	Level mOD	Depth (m)	Legend	Description			Water	Backfill	
Casing Details io (m) Diam (r 12.00 200	Wate	r Added		Chisellin		12.00	Remarks Hand dug inspection pit excav	End of Borehole a	at 16.00m		d is	9.5 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11	
			Core	Barrel	Flush	Туре	Termination Reason			Las	t Updat	ed	
1	1	1	i		i		Terminated due to unable to a	A Company of the Comp		1	/06/202		

CAUSEWAY GEOTECH Method Plant Used Top (m) Base (m) Cable Percussion Dando 2000 0.00 8.00 Depth (m) Sample / Tests Field Records Depth Depth (m) (m) (m)							oct No. 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech						Borehole ID BH616		
				_		Coord	dinates	Final Depth:	8.00 m	Start Date: (04/01/2022	Driller:	DE	Sheet : Scale:		
							33.54 E 16.11 N	Elevation: 7.6	60 mOD	End Date: (05/01/2022	Logger:	SF	FIN		
		Field Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend		Descri	ption			Back	fill	
0.50	ES1						-	coarse GR	AVEL with	ey slightly sandy low cobble con sles are angular.	itent, concrete				0.5	
00 00 - 1.45 20 50	B7 SPT (C) B8 ES2	N=6 (1,2/1,1,2,2) Hamr 1368	mer SN =	1.00	0.70	6.40	- - - 1.20 -			ose black sandy te, brick, plastic					1.0 -	
70 70 - 2.15	B9 SPT (C)	N=8 (1,1/2,2,2,2) Hamr 1368	ner SN =	1.70	1.60	5.90	1.70			t to firm grey si ic. Gravel is sub					2.0 -	
.00 .20 .30 .40 .50	ES3 D10 B11 ES4 B12 U6					5.30 5.10	- 2.30 - 2.50	waste inclu paper, card	uding shre dboard and	it black sandy Si dded plastic ba d pockets of pe	igs, hard plastic	c, ceramic	s, timber,		2.5	
.00	D13 ES5						- - - -	ર ક્રીર ક્રી ક્રીર ક્રીર ર ક્રીર ક્રી ક્રીર ક્રીર ર ક્રીર ક્રી	own PEAI.						3.0	
	B14 SPT (S)	N=1 (0,0/0,0,0,1) Hamr 1368	mer SN =	3.50			- - - -	એલ્ટ એલ્ટ જ એલ્ટ એલ્ એલ્ટ એલ્ટ જ એલ્ટ એલ્ એલ્ટ એલ્ટ જ એલ્ટ એલ્ટ							3.5	
	D15 SPT (S)	N=1 (0,0/0,0,0,1) Hamr 1368	mer SN =	4.00	3.20		- - - - - -	able able to able able able able able able able able							4.0	
.00	ES16					2.40	- - - - - 5.20	te alle all alte alte te alte alt	grey SILT.						5.0	
.50 .50 - 5.95	ES17 SPT (S)	N=2 (0,0/0,0,0,2) Hamr 1368	mer SN =	5.50	1.60		- - - -	× × × × × × × × × × × × × × × × × × ×							5.5	
.00 - 6.50	U19				3.40	1.20	- - - - - 6.40	X X X X X X X X X X X X X X X X X X X	sandv grave	elly SILT. Sand i	is fine to coarse	e. Gravel i	s		6.0	
00 - 7.45	SPT (S)	N=14 (2,3/3,3,4,4) Ham 1368	nmer SN =	7.00	2.50				ed fine to r						7.0 -	
ruck at (m) Ca		r Strikes n) Time (min) Rose to (n	n) From (elling To (m	Details	ie (hh:mm)	Remarks	nit evcayate	ed to 1 20m						
Casing De		Water Added	,		-5 (11	, , , , , , , ,	,	and dug inspection (bir excqAq[{	eu to 1.20III						
8.00	200	4.00 8.00						Termination Reaso					Last Upd 28/06/2			

CAUSEWAY						oject No.	Project	Borehole ID				
		GEOT	VAY FCH		22	2-0242	Client:	BH616				
		GLOI					Client's	s Rep: Tetra Ted	ch			
Method able Percu		Plant Used Dando 2000	Top (m) 0.00	Base (n 8.00	n) Cod	ordinates	Final De	epth: 8.00 m	Start Date: 04/01/2022	Driller: DE		Sheet 2 of 2 Scale: 1:40
						7983.54 E 7646.11 N	Elevatio	on: 7.60 mOD	End Date: 05/01/2022	Logger: SF		FINAL
Depth (m)	Sample / Tests	Field Record	ls	Casing Wat Depth Dep (m) (m	er th) MOE		Legend		Description	•	Water	Backfill
	ES18	N=28 (3,4/6,8,7,7) Ha			-0.3	- - - 0 - 7.90 0 - 8.00	X X X X X X X X X X X X X X X X X X X	subrounded fine to	velly SILT. Sand is fine to coars medium. fine to medium GRAVEL.	e. Gravel is		7
												991001001001010101010101010101010101010
Casing De	sing to (m	r Strikes 3) Time (min) Rose to Water Added		Chisell (m) T		ails	Remarks Hand dug	; inspection pit excava	ited to 1.20m			12 13 14 14
To (m) Di 8.00	iameter 200	From (m) To (m 4.00 8.00					Te	tion Dece		1 .	م الحملة	-d
							iermina	tion Reason		La	st Update	eu

	CAUSEW	ECH			22-0	ct No. 0242	Project Client: Client's	Name: Mobuoy DAERA/N Rep: Tetra Tec	NIEA	on Project Ph	ase 2		ı	orehole ID BH617
Method Cable Percussion	Plant Used Dando 2000	Top (m) 0.00	Base 8.		24797	74.54 E 29.23 N	Final De			20/12/2021	Driller:		S	neet 1 of 2 cale: 1:40 FINAL
Depth Sample / Tests	Field Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend		Desc	cription			Water	Backfill
0.00 B6 0.50 E51 0.60 B7 1.00 B8 1.00 E52					7.50 7.20 6.90	0.30		MADE GROUND: Gro Sand is fine to coars MADE GROUND: Gro MADE GROUND: Fir fragments of red bri coarse. Gravel is ang MADE GROUND: Fir SILT with fragments fine to coarse. Grave	e. (Hard core ey coarse ang m black slight ick, timber, gla gular fine to m m greyish bla of red brick, t	fill) ular GRAVEL. ly gravelly slight ass and plastics. hedium. ck slightly sandy imber, glass and	ly gravelly S Sand is fine slightly gra I plastics. Sa	SILT with to	CAMMANA	0.5
1.80 B10 1.80 - 2.25 SPT (S) 2.00 ES3 2.30 D11 2.40 B12	N=7 (1,1/2,1,2,2) Hamr 1368	mer SN =	1.80	Dry	6.105.405.20	2.40	2 Alle Alle Alle Alle La Alle Alle	MADE GROUND: So Soft black slightly sa Gravel is subrounde Very soft brown pse	indy slightly g	ravelly SILT. Sand se.				2.0
4.00 B14 4.00 B14 4.00 ES5 4.00 - 4.45 SPT (S) 4.50 D15 4.70 B16	N=2 (0,0/0,1,0,1) Hamr 1368	ner SN =	4.00	Dry	3.10	4.70	for able, abl able able for able, able able, able able, able for able, able able, able for able, able able, able able, ab	Soft grey slightly sar coarse.	ndy SILT with I	ow cobble conte	ent. Sand is	fine to		3.5
	N=23 (2,6/5,4,6,8) Ham 1368	nmer SN =			2.50	- 5.30	Remarks	Medium dense brov low cobble content.			coarse GRA\	VEL with		5.5
	m) Time (min) Rose to (n Water Added	n) From (To (e (hh:mm)		inspection pit excavat	ted to 1.20m					
								ion Reason d at scheduled depth				28/06/		AG

						Proje	ct No.	Project	Name: Mobuoy	Remediati	on Project Ph	ase 2		В	orehole	ID
	C	AUSEV GEOT	VAY				0242	Client:	DAERA/ľ		-				BH617	
		——GEOT	ECH	1				Client's								
Meth	od	Plant Used	Top (n	m) Base	(m)	Coord	linates							S	heet 2 o	f 2
Cable Per	cussion	Dando 2000	0.00	0 8.0	00	24797	4 54 F	Final De	pth: 8.00 m	Start Date:	20/12/2021	Driller:	DE		Scale: 1:	
							9.23 N	Elevatio	n: 7.80 mOD	End Date:	21/12/2021	Logger:	SF		FINAL	-
Depth (m)	Sample / Tests	Field Record	ls	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend			cription			Water	Backfill	
uck at (m) C	Water Casing to (m)	Strikes Time (min) Rose to		Chise		-0.20	- 8.00	Remarks	Medium dense broi low cobble content	wn sandy sub . Sand is fine t	rounded fine to	coarse GRA	AVEL with	M		7.5
	Diameter	Water Added From (m) To (m														
8.00	200	4.20 8.00						Terminat	ion Reason				Last Up	date	ed E	11
								Terminate	d at scheduled depth	1			28/06,	/2022	A	0

	CA	AUS G	EW	AY ECH				ect No. -0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH618
Method Cable Percussion	on .	Plant Us Dando 2		Top (m) 0.00	_	e (m) 00	2477	787.93 E 558.17 N	Final Depth: 8.00 m Start Date: 16/12/2021 Driller: Elevation: 7.33 mOD End Date: 16/12/2021 Logger:	Scale: 1:40
	ple /	Fiel	d Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description	ម៉ូ ២ Backfill
0.00 B4 0.50 ES1 1.00 B5 1.00 ES2		7 (1,1/3,2,1 58	1,1) Hamn	ner SN =		Dry	6.33 5.63	- 1.00	MADE GROUND: Soft brown slightly sandy slightly gravelly sil with rootlets, occasional timber fragments and Duracell AAA Sand is fine to coarse. Gravel is angular fine to coarse. MADE GROUND: Loose greyish black slightly sandy angular ficoarse GRAVEL with low cobble content, brick, concrete, rope bar and cobble size fragments of asphalt. Sand is fine to coarse Cobbles are subangular. MADE GROUND: Greyish brown silty sandy angular to subrout fine to medium GRAVEL. Sand is fine to coarse. Grey fine to coarse SAND.	ty CLAY battery.
3.00 ES3										3.0
4.80 B9 4.80 - 5.25 SPT 5.30 D10	130	4 (2,1/1,1,1 58	1,1) Hamn	ner SN =	4.80	1.70	2.53	4.80	Loose brown silty fine to coarse SAND.	5.0
w	ater St	rikes			Chis	elling	Detai	ls	Remarks	
Casing Detail To (m) Diam 8.00 20	s eter F	Water A		n) From	(m)	To (ı	m) Ti	me (hh:mm)	Fermination Reason Terminated at scheduled depth	Last Updated 28/06/2022 A CS

CAUSEWAY ——GEOTECH Method Plant Used Top (m		22-0242	Client: DAERA/NIEA	BH618
Mothod Blant Hand T. /				PH019
INVESTIGATE IN THE PROPERTY OF	n) Base (m)	Coordinates	Client's Rep: Tetra Tech	Sheet 2 of 2
e Percussion Dando 2000 0.00			Final Depth: 8.00 m Start Date: 16/12/2021 Driller:	DE Scale: 1:40
		247787.93 E 417558.17 N	Elevation: 7.33 mOD End Date: 16/12/2021 Logger:	SF FINAL
epth Sample / Field Records	Casing Water Depth Depth (m) (m)	Level Depth mOD (m)	Legend Description	Backfill
Water Strikes at (m) Casing to (m) Time (min) Rose to (m) From	Chisellin	-0.67 - 8.00	Remarks Hand dug inspection pit excavated to 1.20m	9.0 9.0 9.0 10.0 11.0 11.5 12.0 12.5

		CAUSEW	AY			22-0	242	Client: DAERA/NIEA		ВН619
		GEO1	ECH					Client's Rep: Tetra Tech		
Metho Cable Percu		Plant Used Dando 2000	Top (m)	Base 8.0	` '	Coord	inates	Final Depth: 8.00 m Start Date: 13/12/2021 Driller:	DF I	heet 1 of 2
cubic i cicc	3331011	Bulluo 2000	0.00	0.0		24776! 41762:		Elevation: 6.96 mOD End Date: 13/12/2021 Logger:		FINAL
Depth (m)	Sample / Tests	Field Records		Casing N Depth (m)	Vater Depth (m)	Level mOD	Depth (m)	Legend Description	Water	Backfill
(m)	Tests B6	N=6 (1,1/1,2,1,2) Ham 1368 N=12 (1,2/2,3,3,4) Har 1368 Water strike at 3.50m	mer SN =		pepth (m)		- 0.10 - 0.90 - 0.90 0.90 	MADE GROUND: BITMAC. MADE GROUND: Grey slightly sandy angular to subangular fit coarse GRAVEL with low cobble content, fragments of brick a concrete. Sand is fine to coarse. Cobbles are angular. MADE GROUND: Soft greyish brown slightly gravelly sandy SI fragments of brick. Sand is fine to coarse. Gravel is subangular medium. Medium dense brown fine SAND.	ne to nd	Backfill 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
ruck at (m) Ca: 3.50		r Strikes a) Time (min) Rose to (r 20 3.00	m) From	Chise (m)	Illing I	Details) Time		Remarks land dug inspection pit excavated to 1.20m		4.5
Casing De		Water Added								
	etails Diameter 200							ermination Reason	Last Update	<u> </u>

Client's Rep: Text arech	X	8 C	AUSEV	ΥΑΥ			ect No. 0242	Client:	DAERA/N	Remediation Project Ph	-		ehole ID H619
Method Plant Used Top (m) Base (m) Coordinates Plant Used Dando 2000 0.00 0.00 0.00 2.00 2.7765.86 E Elevation: 6.96 m (Did Plant 13/12/2021 Logger Sf FINAL	5		GEOT	ECH			UL-12						11013
Principle Price Principle Price Principle Price Price	Meth	nod	Plant Used	Top (m)	Base (m	Coor	dinates	Cilettis	nep. Tetra let			She	et 2 of 2
								Final De	pth: 8.00 m	Start Date: 13/12/2021	Driller: DE	: I	
1.04 8.00 End of Bonehole at 8.00m End of Bonehole at 8.00m 20 23 24 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26								Elevatio	n: 6.96 mOD	End Date: 13/12/2021	Logger: SF	F	INAL
-1.04 8.00 End of Borehole at 8.00m 5.5		Sample / Tests	Field Record	s	Casing Water Depth Depth (m) (m)		Depth (m)	Legend	'			Water	ackfill
Water Strikes Chiselling Details Remarks	(m)					-1.04	8.00			wn fine SAND.		M C C C C C C C C C C C C C C C C C C C	9.0 9.5 10.0 11.0 11.5 12.0 13.5
	asing [(m)	Details Diameter 200	Water Added From (m) To (m) 3.50 8.00)			-	Terminat	ion Reason		L	ast Updated	
m) Diameter From (m) To (m)									d at scheduled depth			28/06/2022	

		CAUSEN					0242	Client: Client's	DAERA/N Rep: Tetra Tec			_		E	3H620	
Meth Cable Per		Plant Used Dando 2000	Top (m) 0.00		e (m) 00	Coord	linates	Final De	pth: 8.00 m	Start Date:	13/12/2021	Driller:	DE		eet 1 of : cale: 1:40	
							60.50 E 09.59 N	Elevatio	n: 8.46 mOD	End Date:	14/12/2021	Logger:	SF		FINAL	_
Depth (m)	Sample / Tests	Field Records	S	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend	I.	Desc	cription			Water	Backfill	
.00 .05 .10	B4 ES1 B5					8.36	0.10		MADE GROUND: BI MADE GROUND: Bro medium GRAVEL wi	own silty sand				200000000000000000000000000000000000000	o d	0.5
.70	B6 ES2						- - -								1	1.0 -
20	B7					7.26	1.20		Loose grey sandy su to coarse.	ibrounded fin	e to medium GR	AVEL. Sand	d is fine	_	Н	
50 50 - 1.95 80	ES3 SPT (S)	N=6 (1,1/1,2,1,2) Ham 1368	nmer SN =				-									1.5
00	D10					6.46	- 2.00 - -		Brown fine SAND.					_	2	2.0 -
50	В9						- - -								2	2.5
							- -								3	3.0 -
							-								3	3.5
							-									40-
							-									1.0
							- - -								4	4.5
							- - -								5	5.0 -
							-									5.5
							- - -									6.0 -
							- - -									
							-									3.5
							_									7.0 -
	\A/=+-	r Strikes	i	Cr.	011:	n Dote !!		Remarks								
ick at (m) (Time (min) Rose to (m) From		To (m) Tim	e (hh:mm)		inspection pit excava	ted to 1.20m						
Casing I	Diameter															
8.00	200	2.50 8.00						Terminat	ion Reason				Last Up	dated		_
									d at scheduled depth				28/06/		ΛC	ť

	C	AUSI	EW	AY				ect No. 0242	Project Client:	Name: Mobuoy		on Project Ph	ase 2		Borehole ID BH620
		—— G1	EOIE	СН					Client's	Rep: Tetra Te	ch				
Meth Cable Per		Plant Us Dando 20		Top (m)		e (m) 00		dinates	Final De	pth: 8.00 m	Start Date:	13/12/2021	Driller:	DE	Sheet 2 of 2 Scale: 1:40
								50.50 E 09.59 N	Elevatio	n: 8.46 mOD	End Date:	14/12/2021	Logger:	SF	FINAL
Depth (m)	Sample / Tests	Field	Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend		Des	cription			Backfill
	Water	Strikes	tose to (m) From	Chis		0.46	- 8.00	Remarks Hand dug	inspection pit excava		ehole at 8.00m			9.0 — 10.0 — 11.5 — 12.0 — 12.5 — 14.0 — 14.5 — 14.5 — 14.5 —
Casina	Details	\A/a+a= A	ddad	-											
Casing To (m)	Details Diameter	Water A	To (m)	-											
8.00	200	2.50	8.00	1											
										ion Reason d at scheduled deptl	n			28/06/20	

		CAUSEW					ct No. 0242	Project Name: Mobuoy Remediation Project Phase Client: DAERA/NIEA Client's Rep: Tetra Tech	e 2		orehole ID BH621
Metho Cable Perc		Plant Used Dando 2000	Top (m) 0.00	Base 8.		24767	75.78 E 85.25 N		Oriller: DE		heet 1 of 2 Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description		Water	Backfill
0.00 0.50 1.00 1.00	B7 ES1 B8 ES2							MADE GROUND: Brown slightly gravelly sandy SILT v cobble content, fragments of brick, slate, flint and co fine to coarse. Gravel is angular to subangular fine to	oncrete. Sand is		0.5 -
1.70 1.70 1.70 - 2.15 1.80	B9 D10 SPT (S) ES3	N=5 (0,1/1,1,1,2) Hami 1368	mer SN =			5.27 5.07	1.70	MADE GROUND: Soft brown sandy gravelly SILT with content. Sand is fine to coarse. Gravel is subrounded MADE GROUND: Soft grey sandy gravelly SILT. Sand i Gravel is subrounded fine to medium. 1.90m to 3.60m: Slight organic odour	d fine to medium.		2.0
3.60 3.60 - 4.05 3.80 4.10	B11 SPT (S) ES5 D12	N=5 (0,0/1,1,1,2) Hami 1368	mer SN =	3.60	1.40	3.37	3.60	Soft grey sandy SILT. Sand is fine to coarse.			3.5 -
5.00 5.00 - 5.45 5.10	ES6	N=16 (1,2/2,3,4,7) Han 1368 r Strikes n) Time (min) Rose to (r		Chis		g Details m) Tim	4.70	Medium dense sandy subrounded fine to medium G fine to coarse. Remarks Hand dug inspection pit excavated to 1.20m	SRAVEL. Sand is		5.5 -
Casing D		Water Added						Termination Reason Terminated at scheduled depth	Last U j 28/06		

24					Proi	ect No.	Proiect	Name: Mobuoy	Remediation	on Proiect Ph	ase 2		В	orehole I	ID
	C	AUSEV GEOT	VAY			-0242	Client:	DAERA/I		,				BH621	
		——GEOT	ECH				Client's								
Meth	nod	Plant Used	Top (m) Bas	se (m)	Coo	rdinates					Ī		9	Sheet 2 of	2
Cable Per	cussion	Dando 2000	0.00	3.00	2476	575.78 E	Final De	pth: 8.00 m	Start Date:	10/12/2021	Driller:	DE		Scale: 1:4	
						535.25 N	Elevatio	n: 6.97 mOD	End Date:	10/12/2021	Logger:	SF		FINAL	
Depth (m)	Sample / Tests	Field Record	Casin Dept (m)	g Water h Depth (m)	Level mOD	Depth (m)	Legend			cription			Water	Backfill	
	Water Casing to (m)	Strikes Time (min) Rose to	Chi		-1.03	- 8.00	Remarks Hand dug	inspection pit excava	End of Bore	ehole at 8.00m	n GRAVEL.	Sand is			7.5
To (m) 8.00	Diameter 200	From (m) To (m 2.00 8.00)												
							Terminat	ion Reason				Last U	pdate	ed	ij
							Terminate	d at scheduled depth	1			28/06	/2022	AC	Ţ

		CAUSEW				Project 22-0	t No. 242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH622
Meth Cable Per		Plant Used Dando 2000	Top (m) 0.00	Base 12.	00	247676	5.03 E	Final Depth: 12.00 m Start Date: 08/12/2021 Driller: DE	Sheet 1 of 2 Scale: 1:40
Depth	Sample /			Casing		evel	Depth	Elevation: 5.03 mOD End Date: 09/12/2021 Logger: SF	FINAL
(m)	Tests B4	Field Records		Casing Depth (m)		nOD	(m)	Legend Description MADE GROUND: Soft lightly brownish grey slightly sandy gravelly	Backfill
0.50	ES1				4	.13	0.90	silty CLAY. Sand is fine to coarse. Gravel is subrounded fine to medium.	0.5
1.00	ES2							subrounded fine to medium.	1.5
1.80	В6	Water strike at 1.80m				i.33 i.23	1.70	Soft to firm brownish grey silty CLAY. Stiff grey sandy gravelly SILT. Sand is fine to coarse. Gravel is	
2.00 2.00 - 2.45	ES3 SPT (S)	N=22 (1,4/5,6,6,5) Han 1368	nmer SN =			-	-	subrounded fine to medium.	2.0 =
2.50	D7					- -	-	(*	2.5
3.00 3.00 - 3.45	B8 SPT (C)	N=17 (2,2/3,4,4,6) Han 1368	nmer SN =		2	03	3.00	Loose to medium dense subrounded fine to medium GRAVEL.	3.0
4.60 - 5.05 5.10	SPT (S)	N=5 (0,1/0,1,2,2) Hami 1368	mer SN =	4.60	1.50	-	· · · · · · · · · · · · · · · · · · ·		4.5
5.60	В9				-(0.57	5.60 5.60	Loose grey sandy subrounded fine to medium GRAVEL. Sand is fine to coarse.	5.5
6.70 6.80 6.80 - 7.25	B11 D12 SPT (S)	N=6 (0,1/1,2,1,2) Hami 1368	mer SN =	6.80		1.67	6.70 - 6.70 	Loose brown fine SAND.	7.0
		r Strikes			elling D			Remarks	
Casing I To (m) 12.00	1.80	Water Added From (m) To (m) 3.00 12.00	n) From (To (m)		(hh:mm)	Hand dug inspection pit excavated to 1.20m	
									t Updated
								Terminated at scheduled depth 28	/06/2022 AGS

6.97 12:00 End of Borehole at 12:00m			ALISEM	/AV			oject No.				on Project Ph			ehole ID
Method Plant Used Top (m) Base (m) Coordinates Final Depth: 12.00 m Start Date: 08/12/2021 Driller: 0E Scale: 1:00 Scale:	8		— GEOT	ECH		4	2-0242							по∠∠
Paral Depth 12.00 12.00 247676.03 E 417535.58 N								Client's Re	ep: Tetra Tec	:h				
## 417535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: SF FINAL ### 417535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: SF FINAL ### 517535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: SF FINAL ### 517535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: SF FINAL ### 517535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: SF FINAL ### 517535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: SF FINAL ### 517535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: SF FINAL ### 517535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: SF FINAL ### 517535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: SF FINAL ### 517535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: SF FINAL ### 517535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: SF FINAL ### 517535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: SF FINAL ### 517535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: SF FINAL ### 517535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: SF FINAL ### 517535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: SF FINAL ### 517535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: SF FINAL ### 517535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: SF FINAL ### 517535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: SF FINAL ### 517535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: SF FINAL ### 517535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: SF FINAL ### 517535.59 N Elevation: 5.03 m(n) End Oate: 09/12/001 logger: 5.03 m(n) logg								Final Depth	12.00 m	Start Date:	08/12/2021	Driller:	DF I	
-6.57 12.00 End of Borehole at 12.00m								Elevation:	5.03 mOD	End Date:	09/12/2021	Logger:	SF F	INAL
-6.97 12.00 End of Borehole at 12.00m		Sample / Tests	Field Record	s	Casing Water Depth Dept (m) (m)	er th mC	rel Depth DD (m)	Legend		Desc	cription		Water	Backfill
Water Strikes Chiselling Details at (m) Casing to (m) Time (min) Rose to (m) From (m) To (m) Time (hh:mm) 80 1.80 Remarks Hand dug inspection pit excavated to 1.20m	c at (m) C .80	Water S	Strikes		Chiselli	-6.	2000 - 12.00	Lo		End of Bore				9.0
	asing C	Details	Water Added											
Ising Details Water Added		Diameter 200	From (m) To (m)											
								Termination	Reason				Last Updated	

Metho		GEOT Plant Used	Top (m)	Page		22-0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	BH623
Cable Perc		Dando 2000	0.00	12.0	24	17700.32 E 17422.98 N	Final Depth: 12.00 m Start Date: 24/11/2021 Driller: DE Elevation: 8.40 mOD End Date: 25/11/2021 Logger: CH	Sheet 1 of 2 Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field Records		Depth [Vater Depth (m) MO	vel Depth DD (m)	Legend Description	ਬ ਲ Backfill
.00 .50 .00	B7 ES1 B8 ES2				8.1	0.40	MADE GROUND: Firm grey sandy SILT with low cobble content. Sa is fie to coarse. MADE GROUND: Dark grey silty subangular fine to coarse GRAVEL with DOMESTIC WASTE- of plastic, timber, concrete, metal, rubber paper. Sand is fine to coarse. 0.40m to 2.90m: Organic odour	0.
00 00	B9 ES3					-		2
00 00 00 - 3.45	B10 ES4 SPT (S)	N=9 (1,1/2,2,2,3) Ham 1368	mer SN =	3.00	5.	- 50 - 2.90 - - - - - -	MADE GROUND: Loose grey sandy silty subrounded fine to coarse GRAVEL. Sand is fine to coarse.	3
00	B12 ES5				4.	70 - 3.70	MADE GROUND: Firm grey sandy gravelly SILT with domestic wast paper, rubber, plastic, concrete, metal, ceramics, glass and timber. Sand is fine to coarse. Gravel is subrounded fine.	e,
.00 .00 - 5.45 .50	B13 SPT (S)	Water strike at 4.90m N=6 (1,1/2,1,2,1) Ham 1368	mer SN =	5.00	3.	40 - 5.00	Loose grey sandy subrounded fine to medium GRAVEL. Sand is fine to coarse.	5
00	ES6					- - - - - - - - - -		6.
.00	B15					-		
4.90 Casing D	asing to (m 4.90	r Strikes Time (min) Rose to (r 0 4.00 Water Added From (m) To (m)			lling De To (m)	tails Time (hh:mm)	Remarks Hand dug inspection pit excavated to 1.20m	
- 1-11		4.90 10.50						t Updated

						Proje	ect No.	Project Name	: Mobuoy	Remediation Project Pha	ase 2	В	orehole II	D
		CAUSEW	AY			22-	0242	Client:	DAERA/I	NIEA			BH623	
		GEOT	ЕСП					Client's Rep:	Tetra Ted	ch				
Meth able Per		Plant Used Dando 2000	Top (m) 0.00	Base 12.			dinates 00.32 E	Final Depth:	12.00 m	Start Date: 24/11/2021	Driller: DE		Sheet 2 of 2 Scale: 1:40	
							22.98 N	Elevation:	8.40 mOD	End Date: 25/11/2021	Logger: CH		FINAL	
Depth (m)	Sample / Tests	Field Records	•	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend		Description		Water	Backfill	
60	D16					1.00	7.40	Loose to coa		ubrounded fine to medium GRA	AVEL. Sand is fi	ne		7.5
60 - 7.95	3r1 (5)	N=13 (2,3/2,3,4,4) Har 1368	millet SN =	7.50	٥.٥٧.	-2.10	- 10.50			to coarse SAND.			10.	9.55
						-3.60	- 12.00			End of Borehole at 12.00m			12	0 -
							-						12.	2.5
							-						13.	3.0
							Ė							
							-						13.	3.5
							-							
							F						14.	4.0
							-							
							-						14.	4.5
														_
4.90 Casing D	Casing to (n 4.90	Strikes			elling To (g Detail:	ne (hh:mm)	Remarks Hand dug inspecti	on pit excava	ited to 1.20m				
. (111)	Diameter	4.90 10.50						Termination Re	ason		La	st Update	ed I	Ī
								Terminated at sch	eduled denth	1	.	28/06/2022	AC	Ý

		CAUSEV	νΔΥ				ect No. -0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA	Borehole ID BH624
		GEOT	ECH			22	0242	Client's Rep: Tetra Tech	D11024
Met	thod	Plant Used	Top (m)	Base	e (m)	Coor	dinates		Sheet 1 of 2
Cable Pe	ercussion	Dando 2000	0.00	12			60.47 E 43.13 N	Final Depth: 12.00 m Start Date: 17/11/2021 Driller: DE Elevation: 6.68 mOD End Date: 18/11/2021 Logger: SF	Scale: 1:40 FINAL
Depth	Sample /	Field Record	1-	Casing	Water	Level	Depth		
(m) .00	Tests B1	Field Record	15	Depth (m)	Depth (m)	mOD 6.58	(m) - 0.10	TOPSOIL	Backfill
							0.10	MADE GROUND: Soft brown sandy silty CLAY. Sand is fine.	
50	ES1						- - - - -		0.5
00 00 - 1.45	ES2 SPT (S)	N=8 (1,1/2,2,2,2) Han	nmer SN =			5.58	1.10	MADE GROUND: Soft to firm brown silty CLAY.	1.0
10	B2	1368					E		
50	D3						-		1.5
70	B4	Water strike at 1.80				4.98 4.88	1.70 1.80		▼
90 90 - 2.35	B5 SPT (S)	N=12 (5,3/2,2,1,7) Ha	ımmer SN =				-	MADE GROUND: Dark grey DOMESTIC WASTE with silt/clay matrix. Waste includes foam insulation, concrete, hard plastics and shredded	2.
00	ES3	1368						plastic bags.	
40	D6						- - - -		2.5
00	ES4								3.3
00 70	ES5					1.98	4.70		4.
70 70 - 5.15	B7 SPT (S)	N=2 (0,0/0,0,1,1) Han	nmer SN =	4.70	2.40	1.98	4.70	a allic sill sille sill soft brown spongy fibrous sandy PEAT. Sand is fine to coarse.	
00	ES6	1368					-	alte alte	5.0
20	D8						- - - -	SALC SALC E SALC SALC SALC SALC SALC SALC SALC SALC SALC SALC SALC	5.
00	В9					0.78	- 5.90 -	a side side side side side side side side	6.0
00	ES7						Į.	allo (allo) o allo (allo)	
							-	Sile Sile: Sile Sile:	6.
							ļ	e alle all	
80 80 - 7.25	D10 SPT (S)	N=2 (0,0/0,0,1,1) Han	nmer SN =	6.80	3.70	-0.12	6.80	Soft brown plastic pseudo-fibrous PEAT.	
		1368					F	e able all able able & able all	7
0	D11						}	- MC - MC	
		r Strikes			elling			Remarks	
ck at (m) 1.80	Casing to (m	n) Time (min) Rose to	(m) From 2.40		To (n 3.80		me (hh:mm) 01:00	Hand dug inspection pit excavated to 1.20m	
	Details	Water Added	,						
To (m) 3.80	Diameter 200	From (m) To (m 3.80 12.00							
12.00	200							Termination Reason Last Upd	
								Terminated at scheduled depth 28/06/2	022 AG

		CAUSEN	VAY				ect No. - 0242	Project I Client: Client's	Name: Mobuoy DAERA/N Rep: Tetra Tec	NIEA	on Project Ph	ase 2			rehol	
Metho Cable Percu		Plant Used Dando 2000	Top (m)	_	e (m) .00		dinates 660.47 E	Final Dep	oth: 12.00 m	Start Date:	17/11/2021	Driller:	DE		eet 2 ale: 1	
Depth	Sample /			Casing	Water	4172 Level	43.13 N Depth	Elevation	6.68 mOD	End Date:	18/11/2021	Logger:	SF		INA	_
7.50 - 7.95 8.00 8.00	Tests	N=2 (0,0/0,0,1,1) Ham 1368		7.50	1.60	mOD	(m)	to alle alle alle alle alle alle alle all	Soft brown plastic p		s PEAT.			Water	Backfil	7.5
9.50 - 9.95 10.00	SPT (S)	N=2 (0,0/1,0,0,1) Ham 1368	nmer SN =	9.50	2.80			e alle all alle								9.0 -
11.30 11.30 - 11.75 11.80	B14 SPT (S) D15	N=8 (1,1/2,2,2,2) Ham 1368	nmer SN =	11.3	3.40	-4.62 -5.32	11.30	alle alle alle alle alle alle alle alle	Firm grey slightly sa		f. Sand is fine.					**************************************
							-									13.0 -
							-									14.5
1.80 Casing De	sing to (m 1.80	r Strikes n) Time (min) Rose to (Water Added	2.4	(m)	То	g Detail (m) Tii	me (hh:mm) 01:00	Remarks Hand dug ir	nspection pit excava	ted to 1.20m						
To (m) D 3.80 12.00	Diameter 200 200	From (m) To (m) 3.80 12.00							on Reason at scheduled depth				Last Upd 28/06/2		A	G S

		GEO			n		22-	ect No. -0242	Project Na Client: Client's Re	DAERA/N Tetra Tec	NIEA	n Project Ph	ase 2		Borehole ID BH625
Metho Cable Percu		Plant Used Dando 2000		p (m) 0.00		(m) 50		467.01 E	Final Depth	8.50 m	Start Date:	15/11/2021	Driller: [DE	Sheet 1 of 2 Scale: 1:40
								259.84 N	Elevation:	6.53 mOD	End Date:	16/11/2021	Logger: L		FINAL
Depth (m)	Sample / Tests	Field Reco	rds		Casing Depth (m)	Water Depth (m)	mOD 6.43	Depth (m)	Legend	PSOIL	Descri	iption			Backfill
0.50 0.50	B5 ES2						0.43	0.10	M/	ADE GROUND: So este of plastics.	ft to firm greyis	sh brown sandy	y SILT with do	omestic	0.5 -
1.00 1.00 1.00 - 1.45	B6 ES3 SPT (S)	N=2 (0,0/1,0,0,1) Ha 1368	ammer	·SN =			5.63	- - - - - - - -		ADE GROUND: Ve cluding shredded		dy SILT with do	omestic wast	e.	1.0 —
1.50 2.00	D8						4.73	1.80		ADE GROUND: Ve					2.0 —
2.00 2.00 - 2.45		N=1 (0,0/0,1,0,0) Ha 1368 Water Strike at 2.20		·SN =	2.00		4.03	- - - 2.50				6			2.5 -
2.50 3.00	D9 B10							-	Lo	ose becoming me	eaium dense gre	ey ппе SAND.			3.0
3.00 - 3.45	SPT (S)	N=7 (1,1/2,1,2,2) Ha 1368	ammer	SN =				-							3.0
4.00 4.00 - 4.45		N=7 (1,1/2,2,1,2) Ha 1368	ammer	· SN =											4.0
5.00 - 5.45		N=10 (2,2/2,2,3,3) F 1368	Hamme	er SN =				-							5.5
5.00 5.00 - 6.45		N=12 (1,2/3,2,3,4) H 1368	Hamme	er SN =											6.0
7.00 7.00 - 7.45		N=13 (2,3/3,3,3,4) F 1368	Hamme	er SN =			-0.37	- - 6.90 - - -	Ме	edium dense grey	rish brown fine	SAND.			7.0
		Strikes Time (min) Rose to		From (elling To (r	Detail	ls me (hh:mm)	Remarks Hand dug insp	pection pit excava	ted to 1.20m				
Casing De To (m) D 2.30 8.00	etails Diameter 150 200	20 2.0 Water Addec From (m) To (i 2.50 8.0	00 d m)						Termination					Last Upd	ated -
										scheduled depth				28/06/20	

		GEOT	AY ECH			22-(0242	Client: Client's I	DAERA/N					3H625
Metho Cable Percu		Plant Used Dando 2000	Top (m) 0.00	Base 8.		Coord	dinates	Final Dep	th: 8.50 m	Start Date:	15/11/2021	Driller:	DF I	eet 2 of 2 cale: 1:40
							57.01 E 59.84 N	Elevation	: 6.53 mOD	End Date:	16/11/2021	Logger:		FINAL
Depth (m)	Sample / Tests	Field Records	s	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend	"		cription		Water	Backfill
(m)	Tests	N=14 (2,3/3,3,4,4) Hai 1368		(m)	Water				Medium dense grey	ish brown fin			Mater	Backfill 7.5
							-							14.0 -
							-							14.5
	Water	r Strikes		Chis	elling	Details	<u> </u> ;	Remarks						
ruck at (m) Ca: 2.20		r Strikes)) Time (min) Rose to (20 2.00	m) From		To (i	Details	se (hh:mm)	Remarks Hand dug in	ispection pit excava	ted to 1.20m				14.
To (m) D 2.30 8.00	etails nameter 150 200	Water Added From (m) To (m) 2.50 8.00						Terminatio	on Reason				Last Updated	'

		CAUSEN	/AY				ect No. 0242	Client:	Name: Mobuoy	NIEA	on Project Ph	ase 2			oreho	ole ID 26
Math					()	C	di	Client's	Rep: Tetra Ted	ch T		1		_		
Cable Perc		Plant Used Dando 2000	Top (m)	_	(m)		91.42 E	Final De	pth: 8.00 m	Start Date:	26/11/2021	Driller:	DE		heet 1 Scale:	
				Casing	Water		09.19 N	Elevatio	n: 5.44 mOD	End Date:	26/11/2021	Logger:	SF		FIN	AL.
Depth (m)	Sample / Tests	Field Records	5	Depth (m)	Depth (m)	Level mOD	Depth (m)	Legend			cription			Water	Backf	ill
0.00	B1 ES6						-		MADE GROUND: Gr Sand is fine to medi coarse of flint and b	ium. Gravel is						0.5
						4.84	0.60	****** * * * * * * * *	Loose grey silty slig subangular to subro			AND. Grave	el is	-		
.00 .00 - 1.45	B2 SPT (S)	N=4 (0,1/1,1,1,1) Ham 1368	ımer SN =				-	* * * * * * * * *						_		1.0
.50	D3							* * * * * * * * *								1.5
.00 .00 .00 - 2.45	B4 ES7 SPT (S)	Water strike at 1.90m N=3 (0,1/0,1,1,1) Ham	ımer SN =	2 00	1 50	3.54	- 1.90 -	**	Very loose brown si subangular to subro		velly fine to coa	rse SAND. (Gravel is			2.0
2.50	D5	1368		2.00	1.50			×××								2.5
.50							-	××××								
							-	×,××								
							-	×.×.×								3.0
							-	××××								
							-	×××								3.5
							-	×××								
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							[$\times \times \times$							$\ \cdot\ $	7.0
								$\overset{\circ}{\times}\overset{\circ}{\times}\overset{\times}{\times}$								
ruck at /m\lc		r Strikes n) Time (min) Rose to (m) From		elling To (Detail:	s ne (hh:mm)	Remarks								
1.90	1.90	20 1.20	, 110111	/	10 (1	,	(vanamu)	, mand dug	inspection pit excava	iteu to 1.20m						
Casing D)etails	Water Added	_													
To (m)	Diameter															
2.00	200							Terminat	ion Reason			1	Last Up	ntato	d =	
										_						H
								ierminate	d at scheduled depth	1			28/06/	2022		(T):

	C	AUSEV	NA TEC	XY				ct No. 0242	Project Client:		NIEA	on Project Pha	ase 2	1	Borehole ID BH626
Meth		Plant Used	_	op (m) E			Coord	linates	Fire I De		Ctt D-t	26/11/2021	D.:!!!	D.F.	Sheet 2 of 2
Cable Per	cussion	Dando 2000		0.00	8.0	00	24749	1.42 E	Final De	e ptn: 8.00 m	Start Date:	26/11/2021	Driller:	DE	Scale: 1:40
								9.19 N	Elevatio	on: 5.44 mOD	End Date:	26/11/2021	Logger:	SF	FINAL
Depth (m)	Sample / Tests	Field Reco	rds		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend	'	Des	cription	*	Water	Backfill
Struck at (m) 1.90	Casing to (m) 1.90	Strikes Time (min) Rose to 20 1.2 Water Addector From (m) To (note that the second content to the second cont	20 d		Chis		-2.56 n) Tim	e (hh:mm)		inspection pit excava	End of Bore	ehole at 8.00m	se SAND. G		9.0 — 10.0 — 11.5 — 12.0 — 14.5 —
ı									Terminate	d at scheduled depth	1			28/06/202	2 AGS

Method Cable Percussion	GEOTE Plant Used Dando 2000	Top (m) 0.00	Base (r 8.00	22 n) Coo	rdinates 415.15 E	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech Final Depth: 8.00 m Start Date: 30/11/2021 Driller: DE	Borehole ID BH627 Sheet 1 of 2 Scale: 1:40
					451.67 N	Elevation: 5.19 mOD End Date: 30/11/2021 Logger: SF	FINAL
Depth Sample / Tests	Field Records		Casing Wa Depth Dep (m) (n	ter oth n) Level mOD		Legend Description	Backfill
60 B580 - 2.25 SPT (S)00 ES600 - 2.45 SPT (C)	N=8 (1,2/2,2,2,2) Hamr 1368 Water strike at 1.60 N=8 (1,2/2,2,2,2) Hamr 1368 N=10 (1,2/2,3,2,3) Ham 1368 Time (min) Rose to (n	ner SN =	Chisell	4.29 3.59	1.60	Brown very sandy SILT with roots and rootlets, and occasional seam of orangish brown fine to medium sand. Firm grey very sandy slightly clayey SILT. Sand is fine to medium. Medium dense brown very silty very gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse of predominantly limestone. Remarks Hand dug inspection pit excavated to 1.20m	0.5
8.00 200						Termination Reason Last Terminated at scheduled depth 28/	Updated

	C	AUSE GEO	WA OTEC	Y CH				ct No. 0242	Project Client: Client's	Name: Mobuoy DAERA/N Rep: Tetra Tec	NIEA	on Project Ph	ase 2	E	Borehole ID BH627
Metl		Plant Used		p (m)			Coord	linates	Final De	pth: 8.00 m	Start Date:	30/11/2021	Driller:)F I	Sheet 2 of 2
Cable Pe	rcussion	Dando 2000	0 (0.00	8.0	00		5.15 E							Scale: 1:40
							41745	1.67 N	Elevatio	n: 5.19 mOD	End Date:	30/11/2021	Logger: S		FINAL
Depth (m)	Sample / Tests	Field Re	ecords		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend			cription		Water	Backfill
	Water				Chis		-2.81	- 8.00	Remarks	Medium dense brov Gravel is subangular limestone.	end of Bore	ery gravelly fine	to coarse SA	ND.	9.5 — 10.0 — 11.5 — 12.0 — 13.5 — 14.5 — 14.5 —
Casing To (m)	Details Diameter	Water Add	led o (m)												
8.00	200	, , , ,													
									Terminat	ion Reason				Last Updat	
									Terminate	d at scheduled depth				28/06/202	2 AGS

	CAUS G			.	()	22-	ect No. 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH628
Method Cable Percussion			Top (m) 0.00	_	00	2474	82.77 E 76.19 N	Final Depth: 8.00 m Start Date: 01/12/2021 Driller: DE Elevation: 6.46 mOD End Date: 01/12/2021 Logger: SF	Sheet 1 of 2 Scale: 1:40 FINAL
Depth Sampl (m) Test		ld Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description	Backfill
1.50 D3 2.00 ES9 2.20 B4 2.50 ES10 2.50 - 2.95 SPT (2.70 B5 3.00 D6 3.00 ES11 3.00 - 3.45 SPT (N=10 (1,2/2,3 1368 Water Strike a C) N=8 (1,1/1,2,3 1368 N=8 (1,1/2,2,3 1368 N=8 (1,1/2,2,3 1368	at 2.2m 2,3) Hamr 2,2) Hamr	ner SN =	Chis		5.26 4.26 3.76	- 1.20 - 2.20 - 2.70	MADE GROUND: Brown sandy silty subangular to subrounded fine to coarse GRAVEL with fragments of flint and brick. Sand is fine to coarse. MADE GROUND: Firm greyish black sandy gravelly SILT with pockets of black stained sandy clay with occasional rootlets and fragments of brick. Sand is fine to coarse. 1 20m to 2 20m. Strong techydrocarbon odour Grey silty fine to coarse SAND and subrounded to rounded fine to coarse GRAVEL of predominantly limestone. 2 20m to 2 70m. Weak hydrocarbon odour (all viuter on water) Loose grey fine to medium silty SAND. 2 70m to 8 00m. Mild hydrocarbon odour Remarks Hand dug inspection pit excavated to 1.20m	2.5 — 2.0 —
Casing Details To (m) Diamet 8.00 200	Water A	Added To (m) 8.00						Termination Reason Last Up Terminated at scheduled depth 28/06/	

CAUSEWAY GEOTECH Client's Rep: Tetra Tech Client's Rep: Tetra Tech	Sheet 2 Scale: FIN.	2 of 2 2: 1:40 NAL
Method Plant Used Top (m) Base (m) Coordinates ble Percussion Dando 2000 0.00 8.00 247482.77 E 417476.19 N Elevation: 6.46 mOD End Date: 01/12/2021 Driller: DE Depth (m) Field Records Casing (m) (m) Casing (m) (m) Casing (m) (m) Casing (m) (m) Casing (m) Casing (m) (m) Casing (m) Casin	Scale:	e: 1:40 NAL ***********************************
ble Percussion Dando 2000 0.00 8.00 247482.77 E 417476.19 N Elevation: 6.46 mOD End Date: 01/12/2021 Logger: SF Depth Tests Field Records Casing (m) Legend Description Loose grey fine to medium silty SAND.	Scale:	e: 1:40 NAL ***********************************
Depth (m) Field Records Casing (m) Water (period) (m) Legend Depth (m) Legend Description Loose grey fine to medium silty SAND.		kfill 7.5
Loose grey fine to medium silty SAND.	Marking Backi	7.5
Loose grey fine to medium silty SAND.		
Water Strikes Chiselling Details stat (m) [Casing to (m)] Time (min) Rose to (m) From (m) To (m) Time (th:n:mm) 20 Hand dug inspection pit excavated to 1.20m		9.5 10.6 11.6 12.6 13.6 14.6

Meth Cable Per		Plant Used Dando 2000		op (m) 0.00	_	e (m)	24752	21.86 E	Client's Rep: Tetra Tech Final Depth: 8.00 m Start Date: 06/12/2021 Driller: Elevation: 6.01 mOD End Date: 06/12/2021 Logger:	Scale: 1:40
Depth (m)	Sample / Tests	Field Rec	cords		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description	म्हं Backfill
0.10	ES1						5.81	- 0.20	MADE GROUND: Light brown slightly gravelly very sandy silty with roots and rootlets, fragments of glass brick and ceramic is fine to medium. Gravel is angular to subrounded fine to co flint, pelite and brick. MADE GROUND: Brown very sandy silty angular to subround to coarse GRAVEL with fragments of brick, concrete, glass, ce and coal. Sand is fine to medium.	ed fine 0.5
.30	ES3						4.51	- 1.50	MADE GROUND: Brown gravely silty fine to medium SAND w fragments of coal. Gravel is subangular to subrounded of flin pelite. 0.9m to 1.8m: Very strong hydrocarbon odour MADE GROUND: Grey sandy very gravelly SILT with low cobb	t and
00 00	B7 ES4							-	content and rootlets. Sand is fine to medium. Gravel is suban rounded fine to coarse of concrete and slate. 1.5m to 2.6m: Very strong hydrocarbon odour	
.70	B8						3.41	2.60	Light brown fine to medium SAND. 2.6m to 3.7m. Strong adours, sheen on water	2.5
3.80 1.00	ES5 B9 ES6							-	3.7m: no oll/hydrocarbon odours or sheen present	3.0
										5.5
uck at (m) (Water S Casing to (m)	Strikes Time (min) Rose	to (m)	From (elling To (n	Details n) Tim	ie (hh:mm)	emarks and dug inspection pit excavated to 1.20m	, ,
Casing I	Details Diameter	Water Adde	ed (m)							
								•	ermination Reason	Last Updated

		ALISEM	/ / /				ct No.		Name: Mobuoy		on Project Pha	ase 2		Borehole BH62	
		AUSEV GEOT	ECH			22-0	J242	Client:	DAERA/N					рпод	.,
Meth		Plant Used	Top (m)	Base	- (m)	Coord	linates	Client's	Rep: Tetra Tec	:n				Sheet 2 o	of 2
Cable Per		Dando 2000	0.00	_	00			Final De	pth: 8.00 m	Start Date:	06/12/2021	Driller:	DE	Scale: 1:	
							21.86 E 75.06 N	Elevatio	n: 6.01 mOD	End Date:	06/12/2021	Logger:	SF	FINA	L
Depth (m)	Sample / Tests	Field Record	s	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend		Des	cription	ļ		ਰ Backfill	
(m)	Water	Strikes Time (min) Rose to				-1.99	(m)	Remarks	Light brown fine to	End of Bore				Backfill	7.5 —
Casing I	Details Diameter	Water Added From (m) To (m)					Terminat	ion Reason				Last Upda		
								Terminate	d at scheduled depth				28/06/20	22	GS.

		GEOT		h	(,)	22-0	ect No. 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH630
Metho Cable Percu		Plant Used Dando 2000	Top (m) 0.00	8.0		24750	02.20 E 39.50 N	Final Depth: 8.00 m Start Date: 02/12/2021 Driller: Elevation: 5.38 mOD End Date: 03/12/2021 Logger	Scale: 1:40
Depth (m)	Sample / Tests	Field Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description	a Backfill
0.00 - 1.00 0.50 1.00 1.00 - 1.45 1.50 2.00 2.00 - 2.50 2.00 - 2.45 2.50	ES2 SPT (S) D6	N=6 (0,1/1,2,1,2) Ham 1368 N=4 (0,0/1,1,1,1) Ham 1368				3.48	1.90	Brown slightly gravelly silty fine to medium SAND. Gravel i subangular to subrounded fine to coarse. Brown fine to medium SAND.	
Casing De	asing to (m	Strikes) Time (min) Rose to (Water Added From (m) To (m)			elling To (r	Details n) Tim	5.80	Brown silty fine to medium SAND. Remarks Hand dug inspection pit excavated to 1.20m	6.5
8.00	200	1.90 8.00						Termination Reason	Last Updated
								Terminated at scheduled depth	28/06/2022 AGS

Cable Percussion Dando 2000 0.00 8.00 Client's Rep: Tetra Tech Client's Rep: Tetra Tech Client's Rep: Tetra Tech Sheet 2 or Scale: 1:	Client's Rep: Tatra Tach			ALICEVA	/A¥			ct No.			Remediation Project Ph	ase 2		ehole ID
Method Plant Used Top (m) Base (m) Coordinates able Percussion Dando 2000 0.00 8.00 247502.20 E 417489.50 N Elevation: 5.38 mOD End Date: 03/12/2021 Driller: DE Scale: 1: Scale: 1: Depth Cosing Water Depth	Markethord Plant Used Topy (m) Ease Markethord Class Cla			AUSEVI —GEOT	FCH		22-0	0242					В	H630
able Percussion Dando 2000 Scale: 1: Description Descriptio	Application Dando 2000 Da		0						Client's	Rep: Tetra Tec	ch			
Depth (m) Sample / Tests Field Records Casing (m) Elevation Casing (m) Elevation Sample / (m) Depth (m) Depth (m) Depth (m) Description Sample / (m) Description Sample / (m) Description Sample / (m) Sample / (m) Sample / (m) Description Sample / (m) Sample / (m) Description Sample / (m) Sample / (m) Description Sample / (m) Sample / (m) Sample / (m) Description Sample / (m) Sa	Cough Indian County Private County C								Final De	pth: 8.00 m	Start Date: 02/12/2021	Driller: DE		
B10 Brown silty fine to medium SAND.	30 0.00 Page 1 of 1 o								Elevatio	5.38 mOD	End Date: 03/12/2021	Logger: SF	F	INAL
50 B10	2.62 - 8.00 End of Borehole at 8.00m 2.62 - 8.00 End of Borehole at 8.00m 2.62 - 8.00 End of Borehole at 8.00m 2.52 - 5.52 -			Field Records	s	Casing Water Depth (m) (m)		Depth (m)	Legend		Description		Water	Backfill
	Casing Details Water Added	(m) 50	Water S	Strikes		Chisellin	-2.62	8.00	Remarks		End of Borehole at 8.00m		MAT	
To (m) Diameter From (m) To (m) 8.00 200 1.90 8.00								ļ	Terminat	ion Reason		La	st Updated	
To (m) Diameter From (m) To (m)	Termination Reason Last Updated		i l	I	1	1				d at scheduled depth		1	8/06/2022	

	9 –		EOTE	СН			22-	ect No. 0242	Project Client: Client's	Name: Mobuoy DAERA/N Rep: Tetra Tec	NIEA	n Project Pha	ase 2			BH63	31
Metho Cable Perc Rotary Dr	ussion	Plant U Dando 2 Beretta	2000	Top (m) 0.00 10.00	10. 19.	00	2475	51.01 E	Final De		Start Date: (Driller:	DE+PJ		heet 1 Scale: 1	L:50
								43.15 N	Elevatio	n: 6.57 mOD	End Date:	03/02/2022	Logger:	SF		FINA	۱L
Depth (m)	Sample / Tests	Fie	eld Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend	MARK CROUND C	Descri			r	Water	Backfil	ı
.50	B1 ES1									MADE GROUND: G coarse GRAVEL with Cobbles are angular	n low cobble con						0.5
.00	ES2						5.27	120									1.0
.30 .50	B2 D4						5.27	1.30	× × × × × × × × × × × × × × × ×	Soft brown sandy S	ILT. Sand is fine.						1.5
.00	B3 ES3								× × × × × × × × × × × × × × × × × ×								2.0
.60	B5						3.97	2.60	X X X X X X X X X X X X X X X X X X X	Soft brownish grey	SILT.				1		2.5
.00 .00 .00 - 3.45	B10 ES4 SPT (S)	N=2 (0,0/1,0,	,0,1) Hamm	ner SN =			3.57	3.00	× × × × × × × × × × × ×	Soft light grey SILT.							3.0
.50	D11								X X X X X X X X X X X X X X X X X X X								4.0
.70	B12						0.87	5.70	***	Medium dense sand fine to coarse.	dy subrounded f	ine to medium	i GRAVEL.	Sand is			6.0
.70 - 7.15	SPT (C)	N=19 (2,3/3,4 1368	4,5,7) Ham	mer SN =													7.0 7.5 8.0 8.5
		Strikes				elling	g Details	s	Remarks								1
Casing D To (m) D	etails Diam (mm		Added To (m)) From (To (ne (hh:mm)	cable perc was attem	inspection pit excava ussion hole due to pr pted at location with inds installation pipe stall	roximity of over deep installatio	head electricity n to10.0m and	y cables it shallow to	should be 5.0m but	noted due to	l dual in: o extren	stall
10.00 19.00	200 200	3.00	10.00	Core	Barr	el	Flush	Туре	Terminat	ion Reason				Last Up	odate	ed E	_
								•	Terminate	d on engineers instru	ıction.			28/06			Ŕ

			EOTE	СН			22-0	ct No. 0242	Client:	Name: Mobuoy DAERA/N Rep: Tetra Tec	NIEA					BH63	1
Metho		Plant U		Top (m) 0.00	Base 10.0	_	Coord	linates	Final De	pth: 19.00 m	Start Date:	06/12/2021	Driller:	DE+PJ	1	heet 2 o	
otary Di		Beretta		10.00	19.0			1.01 E 3.15 N	Elevation	1: 6.57 mOD	End Date:	03/02/2022	Logger:	SF		Scale: 1 FINA	
Depth (m)	Sample / Tests	Fie	ld Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend		Desc	ription			Water	Backfill	
Casing D		Strikes Time (min) Water From (m) 3.00) From (elling To (n	-3.43	e (hh:mm)	X X X X X X X X X X X X X X X X X X X	nspection pit excavaussion hole due to proted at location pipe tall	ted to 1.20m leoximity of overdeep installati	ocation of rotary r head electricity on to10.0m and	borehole: y cables it shallow to	was moved should be	d appr noted due to	dual ins	tall
9.00	200			Core	Barre	el	Flush	Туре	Terminati	on Reason				Last Up	date	ed 📕	7
									Terminated	d on engineers instru	ction			28/06,	/2022		

	Ac	AUSEV	Υ ΔΥ			ect No. -0242	Project Client:	Name: Mobuoy DAERA/N	Remediation Project Ph	nase 2	E	Borehole II BH631
		——GEOT	ГЕСН			V	Client's					211002
Meth		Plant Used	Top (m)		-	rdinates	Final De		Start Date: 06/12/2021	Driller: DE+P.		Sheet 3 of 3
Rotary D	rcussion Orilling	Dando 2000 Beretta T44	0.00 10.00	10.0 19.0	2475	551.01 E						Scale: 1:50
Depth	Sample /			Carios M		543.15 N Depth	Elevatio	n: 6.57 mOD	End Date: 03/02/2022	Logger: SF	ħ	FINAL
(m)	Tests	Field Recor	ds	Casing W Depth D (m)	Level m) mOD	(m)	Legend	Brown very silty fine	Description SAND		Water	Backfill
					42.42	40.00		Drown very sitey init	C 37 (14)			
					-12.43	19.00			End of Borehole at 19.00m			19
						Ē						19
						Ė						
						E						20
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k at (m)	Water	Strikes Time (min) Rose to	(m) Hand		action nit	.vcavatad t	0.1.20m.ls-	ation of rotary bar-l-	ole was moved approx 13 == f=	om cable nersussi-	n holo	due to
(111)	-2011/6 (111)	(.iiii) Nose to	proxin	nity of o	ver head el	ectricity ca	bles it shou	ıld be noted dual inst	ole was moved approx 12m fr all was attempted at location was pulled up with easing who	with deep installation	on to10	.0m and
			install		iii but due	o extreme	piowing sa	nus installation pipe v	was pulled up with casing whe	ii it was removed r	esulting	ın one shallo
(m)	Details Diam (mm)	Water Added From (m) To (n	ո)									
0.00 9.00	200 200	3.00 10.0		Barre	Flue	h Type	Terminat	tion Reason		last	Updat	ed 💻 -
					. 143	, рс				28/	- Paul	

		CAUSEW					ct No. 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH632
Method Cable Percu		Plant Used Dando 2000	Top (m) 0.00	Base 14.		24764	3.47 E 33.92 N	Final Depth: 14.00 m Start Date: 22/11/2021 Driller: Driller:	Scale: 1:40
Depth (m)	Sample / Tests	Field Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description	ta # Backfill
0.00 0.50 1.00 1.00 1.00 - 1.45	B1 ES1 B2 ES2	N=3 (0,0/1,0,1,1) Hami 1368	mer SN =	(m)	(m)	6.00	1.50	Very soft brown sandy CLAY. Sand is fine to coarse. Soft grey sandy SILT. Sand is fine to coarse.	0.5 -
2.00 2.00 - 2.45 2.50	D5	N=2 (1,1/0,0,1,1) Hamr 1368	mer SN =	2.00	1.20	5.50	2.00	Very soft grey sandy gravelly SILT. Sand is fine to coarse. Gravel is subrounded fine to coarse.	2.0 — 2.5 — 2.5 —
3.70 3.70 - 4.15 4.00 4.00	ES4 ES9 B7 SPT (S) ES10 ES5 D8	N=1 (0,0/0,0,0,1) Hami 1368	mer SN =	3.70	1.50	3.80	3.70	Very soft black SILT with roots. Very soft black SILT with roots. Very soft brown PEAT. Sile sile sile sile sile sile sile sile s	3.5
5.00 - 5.45	B11 SPT (S)	N=1 (0,0/0,0,0,1) Hamr 1368	mer SN =	5.00	2.70		-	e alle all alle alle alle alle alle alle	5.5
6.30	B13 D14 SPT (S)	N=2 (0,0/1,0,0,1) Hamr 1368	mer SN =	6.50	3.80		-	salle	6.5
	D15 SPT (S)	N=2 (0,0/1,0,0,1) Hamr 1368	mer SN =					e shle shle e shle shle shle shle e shle shl	7.0
Casing De	sing to (m	Water Added From (m) 7.00 14.00	n) From		elling To (r	(Details	e (hh:mm)		ast Updated 28/06/2022 AGS

		ΔUSFW	/ΔΥ				ect No. 0242	Project Client:	Name: Mobuoy		on Project Ph	ase 2		rehole ID
	7 -	GEOT	ECH			~ L L -	J_7 <u>_</u>	Client's					'	-110JE
Metho Cable Perci		Plant Used Dando 2000	Top (m)	Base		Coor	dinates	Final De	pth: 14.00 m	Start Date:	22/11/2021	Driller:	DF	eet 2 of 2
							43.47 E 83.92 N	Elevation	n: 7.50 mOD	End Date:	23/11/2021	Logger:		FINAL
Depth (m)	Sample / Tests	Field Records	s	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend	1		cription		Water	Backfill
3.00 3.00 - 8.45	D16 SPT (S)	N=2 (0,0/0,1,0,1) Ham 1368	nmer SN =	8.00	1.30		- - - - - - - - - -	alle alle alle all alle all alle all alle all alle alle alle alle alle all alle	Very soft brown PE.	AT.				7.5 -
9.00 9.00 - 9.45	D17 SPT (S)	N=1 (0,0/0,0,0,1) Ham 1368	nmer SN =	9.00	3.20		- - - - - -	a alle					•	9.0
0.00 - 10.45	SPT (S)	N=3 (0,0/1,1,0,1) Ham 1368	nmer SN =	10.0	1.90		-	a alle alle alle alle alle alle alle al					•	10.5
1.00 1.00 - 11.45	D18 SPT (S)	N=4 (0,0/1,1,1,1) Ham 1368	nmer SN =	11.0	2.70		- - - - - - - -	a sile						11.0 -
2.00 2.00 - 12.45	D19 SPT (S)	N=4 (0,1/1,1,1,1) Ham 1368	nmer SN =	12.0	3.60		- - - - - - -	a silve silv						12.0 —
13.50 13.50 - 13.95	D20 SPT (S)	N=4 (0,0/1,1,1,1) Ham 1368	nmer SN =	13.5	1.60	-6.50	- 14.00	te alle alle alle alle alle alle alle al		End of Bore	hole at 14.00m			13.5 -
							-							
							<u> </u>							14.5 -
ruck at (m) Ca		r Strikes n) Time (min) Rose to ((m) From (elling To (g Detail: m) Tin	s ne (hh:mm)	Remarks Hand dug	inspection pit excava	ited to 1.20m			,	·
Casing Do	etails Diameter	Water Added From (m) To (m))											
14.00	200	2.00 4.10 7.00 14.00						Terminat	ion Reason				Last Updated	
								Terminated	d at scheduled depth	1			28/06/2022	AGS

		GEOT					0242	Client's Rep: Tetra Tech	BH633
Metho Cable Perc		Plant Used Dando 2000	Top (m) 0.00	_	.00	Coor	dinates	Final Depth: 11.00 m Start Date: 14/12/2021 Driller: DE	Sheet 1 of 2 Scale: 1:40
							29.50 E 75.18 N	Elevation: 8.18 mOD End Date: 15/12/2021 Logger: SF	FINAL
Depth (m)	Sample / Tests	Field Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description	म् Backfill
50	B6 ES1						- - - - -	MADE GROUND: Grey slightly sandy angular to subangular fine to coarse GRAVEL with low cobble content. Sand is fine to coarse. Cobbles are angular.	0.5
00 00 00 - 1.45	B7 ES2 SPT (S)	N=16 (1,2/3,3,4,6) Har 1368	mmer SN =	=		7.28	- 0.90	MADE GROUND: Stiff grey sandy gravelly SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.	1.5
70 80 90 90 90 - 2.45	B9 B10 ES3 B11 SPT (S)	N=10 (7,4/3,2,2,3) Har 1368	nmer SN =	= 2.00		6.38 6.18	1.80	MADE GROUND: Soft brownish grey sandy CLAY with low cobble content and fragments of red brick. Sand is fine to coarse. Loose light brown silty gravelly fine to coarse SAND. ravel is subangular to subrounded fine to medium.	2.00
50 50	D12 ES4	1300					-		2.5
00 00 - 3.45	B13 SPT (S)	N=6 (1,2/1,2,1,2) Ham 1368	mer SN =	3.00					3.1
0	D14						-		3.
00 00 - 4.45 50	B15 SPT (S) D16	N=7 (1,1/2,1,2,2) Ham 1368	mer SN =	4.00			- - - - -		4.3
00 00 - 5.45		N=6 (1,1/1,2,1,2) Ham 1368 Water strike at 5.00m	mer SN =	5.00	1.20		- - - - -		5.
50 00 00 00 - 6.45	D18 B19 ES5 SPT (S) D20	N=5 (0,0/1,1,2,1) Ham 1368	mer SN =	6.00	2.40	2.28	- - - 5.90 - - -	Loose brown silty gravelly fine to coarse SAND with occasional seams of silt. Gravel is subangular to subrounded fine to medium.	5.5
00 00 - 7.45	B21 SPT (S)	N=7 (0,1/1,2,2,2) Ham 1368	mer SN =	7.00	1.30		- - - - -		7.1
		r Strikes			selling	Detail	s	Remarks	
5.00 Casing D	5.00	Water Added From (m) To (m)		(m)	To (ı	m) Tin	ne (hh:mm)	Hand dug inspection pit excavated to 1.20m	
11.00	200	5.00 11.00						Termination Reason Last	Jpdated
									06/2022 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

		CAUSEN	/AY ECH				ect No. 0242	Project Na Client: Client's Re	DAERA/N	NIEA	on Project Ph	ase 2			rehole	
Metho Cable Percu		Plant Used Dando 2000	Top (m) 0.00	_	e (m) .00	24772	29.50 E 75.18 N	Final Depth			14/12/2021 15/12/2021	Driller:		So	eet 2 d cale: 1: FINAI	:40
Depth (m)	Sample /	Field Records	s	Casing Depth	Water Depth	Level	Depth (m)	Legend			cription				Backfill	1
(m) .50 .00 .00 - 8.45 .50 .00 .00 - 9.45	Tests D22 B23 SPT (S) D24 B25 SPT (S) SPT (S)	N=6 (0,0/1,1,2,2) Ham 1368 N=5 (0,1/0,1,2,2) Ham 1368 N=8 (0,1/2,2,2,2) Ham 1368 N=9 (0,1/2,2,2,3) Ham 1368	nmer SN =	9.00	2.70 3.40	mOD	Depth (m)	×,×, Lo	pose brown silty g	gravelly fine to el is subangula	coarse SAND w				Backfill	9.5 10.0 - 11.5 12.0 -
							-									14.5
Casing De	5.00 Etails				selling To (g Details	s ne (hh:mm)	Remarks Hand dug insp	pection pit excavai	ted to 1.20m						
11.00	200	5.00 11.00						Termination	n Reason				Last Up			<u>ا</u>

CAUSEWAY ——GEOTECH	Project No. 22-0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH633A
Method Plant Used Top (m) Base (m	Coordinates	Final Depth: 6.00 m Start Date: 24/02/2022 Driller: CC	Sheet 1 of 1
Cable Percussion Dando 3000 0.00 6.00	E N	Elevation: mOD End Date: 24/02/2022 Logger: SF	Scale: 1:40 FINAL
Depth Sample / Field Booods Casing Water	Level Depth		
Depth (m) Sample / Tests Field Records Casing (m) September (m) Septembe	1.80 - 1.00	MADE GROUND: Grey silty sandy subangular to subrounded fine to coarse GRAVEL. Sand is fine to coarse. Soft to firm sandy silty subangular to subrounded fine to coarse GRAVEL. Sand is fine to coarse. Brown gravelly fine to coarse SAND with fragments of red brick. Gravel is subangular to subrounded fine to coarse. Loose brown fine to coarse SAND.	Backfill 0.5 -
	g Details (m) Time (hh:mm)	Remarks	6.5 —
Casing Details Water Added To (m) Diameter From (m) To (m) 6.00 200	(m.me (m.mm)	Termination Reason Last Up 28/06,	

		CAUSEW	VAY				ect No. 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole II BH634
Metho Cable Perc		Plant Used Dando 2500	Top (m) 0.00	_	e (m) 30		dinates	Final Depth: 8.30 m Start Date: 16/12/2021 Driller: RW	Sheet 1 of 2 Scale: 1:40
							48.84 E 78.92 N	Elevation: 8.12 mOD End Date: 16/12/2021 Logger: SF	FINAL
Depth (m)	Sample / Tests	Field Records	s	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description MADE GROUND: Firm brown slightly sandy slightly gravelly CLAY with	Backfill
).50).50 - 2.90	ES1 B7					7.62	- 0.50	fragments of concrete. Sand is fine to coarse. Gravel is subanuglar to subrounded fine to coarse. MADE GROUND: Black slightly sandy slightly gravelly CLAY with high volume of shredded waste of plastics, timber, glass, textiles. 0.50m to 2.90m: Strong hydrocarbon/putrid odour	0.5
00	ES2						-		1.0
2.00	ES3	Damp at 2.0m					-		2.0
2.90 - 5.70 3.00 3.00 - 3.45	B8 ES4 SPT (C)	N=11 (2,2/3,2,3,3) Hai 1368	mmer SN =	3.00		5.22	2.90	Greyish brown sandy SILT with lenses of black organics. Sand is fine to coarse.	3.0
4.00	ES5							C X X X X X X X X X X X X X X X X X X X	4.5
5.00	ES6						- - - - -	X M6 X X X M6 X X	5.0
5.70 - 7.60 5.00 - 6.45	B9 SPT (C)	N=16 (2,3/3,4,5,4) Hai 1368	mmer SN =	6.00	5.50	2.42	5.70	Greyish brown sandy silty CLAY with decaying plant material. Sand is fine to coarse.	6.4
							-	X-1	7.7
	asing to (m	r Strikes n) Time (min) Rose to ((m)	To (me (hh:mm)	Remarks Hand dug inspection pit excavated to 1.20m	
2.00	2.00		8.30		8.3		01:00	Owell the properties of Trans.	
Casing D		Water Added							
To (m) [<u>Diameter</u> 200	From (m) To (m) 6.00 8.30						Termination Reason Last Up	dated
								Terminated on refusal 28/06/.	²⁰²² AG

		AUSEW				0242	Client: Client's	DAERA/N Rep: Tetra Tec						вн63	
Meth Cable Per		Plant Used Dando 2500	Top (m) Ba	ase (m) 8.30		dinates	Final De	oth: 8.30 m	Start Date:	16/12/2021	Driller:	RW		neet 2 d scale: 1:	
						18.84 E 78.92 N	Elevatio	1: 8.12 mOD	End Date:	16/12/2021	Logger:	SF		FINA	
Depth (m)	Sample / Tests	Field Records	Ca De	sing Water pth Depth m) (m)	Level mOD	Depth (m)	Legend		Des	cription	•		Water	Backfill	
60 - 8.30	B10				0.52	- - 7.60	XX 	Greyish brown sand fine to coarse. Dark grey and brow GRAVEL with high c	n sandy subro	ounded to round	led fine to c	oarse			7.5
					0.10		9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	rounded.			eodise. coo	bies di e			8.0
					-0.18	- 8.30 - -			End of Bore	ehole at 8.30m					8.5
						-									9.0
						-									9.5
						-									10.0
						-									10.5
						-									11.0
						-									11.5
						-									12.0
						-									12.5
						-									13.0
						-									13.5
						-									14.5
						-									
ck at (m) (2.00	Water States (m) 2.00	Strikes Time (min) Rose to (ne (hh:mm) 01:00	Remarks Hand dug i	nspection pit excava	ted to 1.20m						
Casing I To (m) 8.30	Details Diameter 200	Water Added From (m) To (m) 6.00 8.30					Torminati	on Reason				Last Up	data	 	<u> </u>
							Terminated					28/06/			,

		GEOTI		n-	:	Project No. 22-0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH635
Metho Cable Percu		Plant Used Dando 2500	Top (m) 0.00	8.3	0 2	47724.50 E 18119.25 N	Final Depth: 8.30 m Start Date: 13/12/2021 Driller: R Elevation: 6.46 mOD End Date: 14/12/2021 Logger: S	Scale: 1:40
Depth (m)	Sample / Tests	Field Records		Depth [evel Depth nOD (m)	Legend Description	Backfill
.50 .00 .00 .00 - 3.60	ES9 ES10 B2				5	46 - 1.00	MADE GROUND: Soft to firm brown and bluish grey slightly sar slightly gravelly silty CLAY with roots. Sand is fine to coarse. Gri subangular to subrounded fine to coarse. MADE GROUND: Black DOMESTIC WASTE of plastics, electrical rope, textiles, glass, tin buckets 1.00m to 3.60m: putrid and hydrocarbon odour	avel is
.00 .00 .00 - 2.45	D5 ES11 SPT (C)	N=10 (2,2/2,3,2,3) Han 0894 Slow seepage at 2.00m		2.00 1	1.90	-		220
.00	ES12				2	.86 - 3.60		33:
.00	ES13					-	MADE GROUND: Black angular fine to coarse GRAVEL with med cobble content, plastic, glass and textiles.	dium
00	ES14					-		5.5
.00 .00 .00 .00 - 8.30 .00 - 6.45		N=25 (2,3/5,4,7,9) Han 0894	nmer SN =	6.00 3		.86 5.60	Medium dene greyish brown clayey sandy angular to subangul to coarse GRAVEL with medium cobble content. Sand is fine to coarse.	
	Water	· Strikes		Chise	lling De	etails	Remarks	
2.00 Casing De	asing to (m 2.00	Time (min) Rose to (n 20 0.30		m)	To (m) 4.50	Time (hh:mm) 01:00	Hand dug inspection pit excavated to 1.20m	
8.30	200	2.00 6.00					Termination Reason	Last Updated
							Terminated on refusal	28/06/2022 1 G

XX	CAUS	EW	ΔΥ				ect No. 0242	Project Client:	Name: Mobuoy DAERA/N		on Project Ph	ase 2		Borehole II BH635
3	CAUS	EOTE	ЕСН					Client's						211000
Method ole Percussio	Plant U		Top (m)	Base	_	Coord	dinates	Final De			13/12/2021	Driller: RV	v	Sheet 2 of 2 Scale: 1:40
							24.50 E 19.25 N	Elevatio	n: 6.46 mOD	End Date:	14/12/2021	Logger: SF		FINAL
Depth Samp		ld Records		Casing Depth	Water Depth	Level	Depth (m)	Legend	II.	Desc	cription		Water	Backfill
c at (m) Casing to 00 2.00	ter Strikes (m) Time (min) 20	Rose to (n 0.30		Chis			(m)	Remarks	Medium dene greyi to coarse GRAVEL w coarse.	sh brown clay	ey sandy angula			9.1 10.1 11.1 12.1 12.1 13.1 14.1
asing Details	er From (m)	To (m)												
30 200	2.00	6.00						Terminat	ion Reason			La	ast Updat	ed I

		AUS	EVA	/AV				ect No.	Project Name: Mobuoy Remediation Project Phase 2 Borehole
3		AUS	GEOTI	ECH			22-	0242	Client: DAERA/NIEA BH636
		1							Client's Rep: Tetra Tech
Cable Pe	ercussion Drilling	Plant Dando Beretta	2500	Top (m) 0.00 8.00	_	00		73.11 E	Final Depth: 14.20 m Start Date: 15/12/2021 Driller: MJ+PJ Sheet 1 of Scale: 1:5
Rortary	y Coring	Beretta		12.50	14	.20		48.44 N	Elevation: 7.09 mOD End Date: 06/02/2022 Logger: NP+SF FINAL
Depth (m)	Sample / Tests	Fi	eld Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description Backfill
0.20 - 1.30	B1						6.89	0.20	MADE GROUND: Soft light brown sandy CLAY. Sand is fine to coarse. MADE GROUND: Brown Fine to coarse SAND and subangular to
).50	ES5								subrounded fine to coarse GRAVEL.
1.00	ES6								
1.30 - 2.80	B2						5.79	1.30	MADE GROUND: Brown sandy gravelly CLAY with fragments of red brick, glass and plastic. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.
2.00	ES7								
2.80 - 4.70) B3								
3.00 3.00	ES8								
4.00	ES9								
1.70 - 6.00	B4	Slow seepag	re at 4 70m	ı			2.39	4.70	Medium dense brown Fine to coarse SAND and subangular to subrounded fine to coarse GRAVEL.
5.00 5.00 5.00 - 6.45	ES10 ES11 SPT (C)	N=13 (4,6/4, 0894	,3,3,3) Han	nmer SN =	6.00	2.80			
							-0.71	7.80	Grey fine SAND. (Driller's Description) SAND and GRAVEL. (Driller's Description)
							-0.91		SAND and GRAVEL. (Dillier's Description)
		r Strikes					g Detail		Remarks
ruck at (m) 4.70	Casing to (m 4.70	Time (min)	Rose to (r 0.10	n) From (• •	To (ne (hh:mm)	Hand dug inspection pit excavated to 1.20m Deeper installation pipe pulled up through casing by 10 due to casing being blocked
To (m)	Diam (mm		Added To (m)						
8.00 12.50	200 200			Core	Barı	el	Flush	Туре	Termination Reason Last Updated
					K6L			ater	Terminated on engineers instruction 28/06/2022

	GEOTE	СН	D	22-0	ct No.	Project Name: Mobuoy Remediation Project Ph Client: DAERA/NIEA Client's Rep: Tetra Tech		Borehole ID BH636
Method Cable Percussion Rotary Drilling	Dando 2500 Beretta T44	0.00	8.00 12.50		inates 3.11 E	Final Depth: 14.20 m Start Date: 15/12/2021	Driller: MJ+PJ +RW	Sheet 2 of 2 Scale: 1:50
Rortary Coring	Beretta T44	12.50	14.20		8.44 N	Elevation: 7.09 mOD End Date: 06/02/2022	Logger: NP+SF	FINAL
Depth (m) Sample / Tests 3.330 4.20	56 0 100 8	0 NI >20 NI >20 NI >20	Casing Mother (m)	-4.41 -5.41 -5.61 -6.31	Depth (m) 11.50 12.50 (0.20) 12.70 13.40 14.20	Weathered PSAMMITE/PELITE. Weathered bedrock: Recovered as grey clayey an GRAVEL of graphitic pelite. Weak narrowly foliated grey PELITE. Partially wear reduced strength, closer fracture spacing, orangis discolouration and grey clay deposits on some from Discontinuities: 1. 35-45 degree foliation fracture spaced (1/20/25), probably planar, smooth, oranging and grey clay deposits on Discontinuities: 1. 0-5 degree joints, closer fracture surfaces. Medium strong (locally weak) narrowly foliated goventhered: slightly reduced strength, closer fracture surfaces. Medium strong (locally weak) narrowly foliated goventhered: slightly reduced strength, closer fracture surfaces. Medium strong (locally weak) narrowly foliated goventhered: slightly reduced strength, closer fracture surfaces. Medium strong (locally weak) narrowly foliated goventhered: slightly reduced strength, closer fracture surfaces. Medium strong (locally weak) narrowly foliated goventhered: slightly reduced strength, closer fracture surfaces. Medium strong (locally weak) narrowly foliated goventhered: slightly reduced strength, closer fracture surfaces. Medium strong (locally weak) narrowly foliated goventhered: slightly reduced strength, closer fracture surfaces. Medium strong (locally weak) narrowly foliated goventhered: slightly reduced strength, closer fracture surfaces. Medium strong (locally weak) narrowly foliated goventhered: slightly reduced strength, closer fracture surfaces. Medium strong (locally weak) narrowly foliated goventhered: slightly reduced strength, closer fracture surfaces. Medium strong (locally weak) narrowly foliated goventhered: slightly reduced strength, closer fracture surfaces. Medium strong (locally weak) narrowly foliated goventhered: slightly weak (locally weak) narrowly f	thered: slightly sh brown stature surfaces. s, very closely gish brown staining rey PELITE. Partially cure spacing, n fracture surfaces. ed (10/160/310), ing on joint ely spaced wm staining and degree joints, at on joint surface. 4. 14.00m, stepped,	Backfill 9.5 10.0 - 10.5 11.0 - 12.0 - 12.0 - 12.12.5 13.0 - 14.5 14.5 15.5 - 16.6 - 16.5
	TCR SCR	Rema		tion pit ex	cavated to	1.20m Deeper installation pipe pulled up through casing by 1	m due to casing being	17.5 18.0 - 18.5 g blocked

		GEOT	ECH			22-0	ect No. 0242	Project Client: Client's	•	NIEA	on Project Ph	ase 2		ı	orehole BH636	A
Meth Cable Per		Plant Used Dando 3000	Top (m) 0.00	Base 6.0		Coord	dinates	Final De	epth: 6.00 m	Start Date:	24/02/2022	Driller:	CC		heet 1 o Scale: 1:	
							E N	Elevatio	on: mOD	End Date:	24/02/2022	Logger:	SF		FINAL	
Depth (m)	Sample / Tests	Field Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend	Ciana links kanana		cription			Water	Backfill	L
(111)				(m)	(m)		1.50		Firm light brown sail MADE GROUND: Bri coarse GRAVEL. San MADE GROUND: Bri subrounded fine to and plastic.	own sandy su d is fine to co	bangular to subrarse.	ounded fi	r to			0.5 1.0 1.5 2.0 2.5 3.0
00	ES1	Seepage at 4.70m					4.70		Brown gravelly fine subrounded fine to		ND. Gravel is suba	angular to		~		4.5
.00	ES3						- 6.00			End of Borr	ehole at 6.00m					6.0
							-			E. G 5010	2.500 & 0.0011					7.0
Casing I To (m) 6.00	Casing to (m 4.70	Strikes Rose to (r 20 4.50 4.50			elling To (r	Details	is le (hh:mm)		inspection pit excava	ted to 1.20m			Last U	pdate	ed	<u>_</u>

		CAUSEW	/AY			oject No. 2-0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH637
Metho		Plant Used	Top (m)) Co	ordinates	Final Depth: 10.10 m Start Date: 14/12/2021 Driller: RW	Sheet 1 of 2
Cable Perc	cussion	Dando 2500	0.00	10.10		7648.70 E 8249.48 N	Elevation: 6.05 mOD End Date: 15/12/2021 Logger: SF	Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field Records		Casing Water Depth Depth (m) (m)	1		Legend Description	ਬੇ Backfill
).10 - 1.50).50	B1 ES6					- - - - - - -	MADE GROUND: Soft to firm light brown slightly sandy slightly gravelly SILT with roots. Sand is fine to coarse, Gravel is angular fine to coarse of pelite.	0.5
.50 - 3.00	ES7				4.5	- - - - 5 - 1.50		1.0 -
.00		Slow seepage at 1.50n	n		4.5	1.30	MADE GROUND: Black sandy subangular to subrounded fine to coarse GRAVEL with high volume of waste including hard sand soft plastics, glass, metal, timber, textiles, ceramics, textiles and netting.	
.00 .00 - 2.45	ES8 SPT (C)	N=8 (4,3/2,1,2,3) Ham 1368	mer SN =	2.00 1.6	o	- - - - - -		2.0 -
.00 .00 - 5.10	ES9 B3					- - - - - - -		3.0
.00	ES10					- - - - - - -		4.0
00 10 - 7.00	ES11 B4				0.9	5 - 5.10	Grey sandy subangular to subrounded fine to coarse GRAVEL with bands of clay.	5.0
.00 .00 - 6.45	ES12 SPT (C)	N=21 (2,3/6,4,5,6) Har 1368	mmer SN =	6.00 4.6	0	-		6.0
7.00 - 10.10	B5				-0.9	- - - - - - -	Grey fine to coarse SAND and subangular to subrounded fine to coarse GRAVEL with bands of clay.	7.0
		r Strikes		Chiselli	ng Deta	ails	Remarks	
1.50 Casing D	1.50	Name Name	m) From (i	m) To		Time (hh:mm) 01:00	Hand dug inspection pit excavated to 1.20m	
10.10	200	2.00 6.00					Termination Peacen	atod =
							Termination Reason Last Upda Terminated on refusal 28/06/20	
							28/00/20	"" <u>AU</u>

		AUSE GE					22-	ect No. 0242	Project N Client: Client's I	Name: Mobuoy DAERA/N Rep: Tetra Tec	NIEA	on Project Ph	ase 2			BH63	7
Meth Cable Perd		Plant Use Dando 250		op (m) 0.00	Base 10.			dinates 48.70 E	Final Dep	10.10 m	Start Date:	14/12/2021	Driller:		- 1	Sheet 2 o	:40
	la				Casing	Water		49.48 N	Elevation	: 6.05 mOD	End Date:	15/12/2021	Logger:	SF	-	FINA	1
Depth (m)	Sample / Tests	Field F	Records		Casing Depth (m)	Water Depth (m)	-4.05	Depth (m)	Legend	Grey fine to coarse coarse GRAVEL with	SAND and sub n bands of clay	hole at 10.10m	ounded fin	e to	Water Market Mar	Backfill	7.5 8.0 8.5 9.0 10.5 11.0 12.5 13.0
	Water						Detail		Remarks								_
Casing D	1.50 Details Diameter	Water Ad	0.30	From (10.00		To (n		ne (hh:mm) 01:00	Hand dug in	nspection pit excava	ted to 1.20m						
10.10	200	2.00	6.00						Terminatio	on Reason				Last	Updat	ed 🔳	<u> </u>
									Terminated	on refusal					06/202		Ā

Metho		CAUSEW GEOT	/AY ECH		e (m)	22-	ect No. 0242	Project Client: Client's	Name: Mobuoy DAERA/N Rep: Tetra Tec	NIEA	on Project Ph	ase 2			BH638	
Cable Percu		Dando 2500	0.00		10	2477	58.24 E 32.52 N	Final Dep			10/12/2021	Driller: Logger:			FINAL	
Depth (m)	Sample / Tests	Field Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend		Desc	ription			Water	Backfill	_
.50 .00 - 1.20 .50 .00 .20 .20 - 2.30	ES7 ES8 D4 B2								Greyish brown sligh coarse GRAVEL. San			bangular f	ine to		0.5	5 -
.00 .30 - 4.40	ES9 B3						-								2.0	0
.00 .00 .00 - 3.30	D5 ES10 SPT (S)	N=48 (14,18/48 for 15 Hammer SN = 0894	0mm)	3.00	1.60		-								3.0	.5 -
.00	ES11						-								4.0	0 —
.40 - 5.00	B6					0.03	4.40		Light brown and gre coarse GRAVEL. San			subrounde	ed fine to		4.5	5 -
.00 - 5.01	SPT (C)	N=50 (50 for 0mm/50 10mm) Hammer SN =				-0.67	5.10			End of Bore	shole at 5.10m				5.0	.5 -
							-								6.5	.5 -
Casing De	asing to (m	r Strikes i) Time (min) Rose to (i) Water Added From (m) To (m)	5.0	(m)	To (me (hh:mm) 01:00	Remarks Hand dug i	nspection pit excava	ted to 1.20m						
5.10	200	1.20 5.00						Terminati Terminated	ion Reason				Last U ₁ 28/06			Ī

	C	CAUSEW	AY			•	ct No.)242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA	В	orehole BH644	
				L				Client's Rep: Tetra Tech			_
Cable Pero Rotary Dr	cssion	Plant Used Dando 2000 Beretta T44	0.00 9.00	9.0 17.	00		1.80 E	Final Depth: 17.50 m Start Date: 22/11/2021 Driller: MK+PJ	1	Sheet 1 o Scale: 1:	
						41818	1.44 N	Elevation: 14.42 mOD End Date: 01/02/2022 Logger: SF		FINAL	-
Depth (m)	Sample / Tests	Field Records		Casing Depth (m)		Level mOD	Depth (m)	Legend Description	Water	Backfill	
0.30	ES1				1	14.02	0.40	MADE GROUND: Soft to firm brownish grey silty CLAY. MADE GROUND: Firm black CLAY with fragments of plastic, wood and metal.	_		0.5
1.70	ES2										1.0
					1	13.02	1.40	MADE GROUND: Firm greyish brown sandy gravelly silty CLAY. Sand is			1.5
					1	12.72	1.70	fine to coarse. Gravel is subangular to subrounded fine to coarse. MADE GROUND: Firm black CLAY with plastic bags, toys and general	_		
00	ES3							waste.			2.0
2.80 - 3.10	B10										2.0
3.00 3.00	D12 ES4	Fast seepage at 3.00m							_		3.5
.00	ES5										4.0
					9	9.72	4.70	MADE GROUND: Firm grey silty sandy CLAY. Sand is fine to coarse.	$\ $		
.00	ES6	Fast seepage at 5.00m			9	9.52	4.90	MADE GROUND: Firm grey slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles are subrounded.			5.0
5.00	ES7										6.0
7.00	ES8					7.32	7.10	MADE GROUND: Firm grey slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles are subrounded.			7.0
.80 - 8.10 .00 .00	B11 D13 ES9										8.0
					!	5.42	9.00	MADE GROUND: Black WASTE including plastic bags, and timber.			9.0
		r Strikes			elling D	etails	<u> </u>	Remarks	1		
ruck at (m) Ca 3.00 5.00	3.00 5.00) Time (min) Rose to (m 20 1.80 20 3.70	n) From (To (m)		e (hh:mm)	Hand dug inspection pit excavated to 1.20m			
Casing Do	etails	Water Added	+								
	iam (mm)) From (m) To (m)	7								
17.50	200		Core	Barre	el	Flush	Туре	Termination Reason Last Up	date	ed	ī

	C	AUSEV	ΥΑΥ			Project 22-0		Project Na Client:	ame: Mobuoy DAERA/N		n Project Pha	ase 2		nole ID 644
5		AUSEV GEOT	ECH			~	-	Client's Re						•
Moth			Top (m)	Pasa	(m)	Coord	inatas	Client's Ri	ep: Tetra Tec	.rı			Chara	- f 2
Metho able Pero		Plant Used Dando 2000	0.00	9.0		Coora	inates	Final Depth	17.50 m	Start Date:	22/11/2021	Driller: MK+PJ		t 2 of 2 e: 1:50
otary Dr		Beretta T44	9.00	17.5		24784	1.80 E						Scare	2. 1.30
						41818	1.44 N	Elevation:	14.42 mOD	End Date:	01/02/2022	Logger: SF	FII	NAL
Depth (m)	Sample / Tests	Field Record	ls	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend		Desc	ription		Mater Bac	:kfill
						-3.08	12.50		Own sandy CLAY v	vith layers of s				11.6. 12.6 13.6 14.6 13.6 14.6 15.1 16.6 17.6 18.6
	\A/=+= :: C	'trikor	D											
k at (m) Ca	Water Stasing to (m)	Time (min) Rose to	(m) Rema		pecti	on pit exc	avated to	1.20m						
.00	3.00 5.00	20 1.80 20 3.70		J	,	,								
	3.00	5.70												
Casing D	etails	Water Added												
(m) D	Diam (mm)	From (m) To (m)											
.00 7.50	200 200		C= 1	. D	N .	Ell- '	Trum a	Torrein	. Doorer			1	datad	_
			Core	e Barre	el	Flush	ype	Terminated d	1 Reason ue to unable to ad	vanco casi	NB. Installation	Last Up		لبار
			1					ierminated d	ue to unable to ad	varice casing	ND: INSTAILATION V	vas 28/06,	10000	W. W.

	C	AUSEV	VAY			ect No. 0242	Project Client:	Name: Mobuoy DAERA/N		on Project Ph	ase 2		Borehole II BH644A
	-	GEOT	ECH				Client's	Rep: Tetra Ted	·h				
Metho	nd	Plant Used	Top (m)	Rase Im	Coord	dinates	Circiic	itebi Tetra Tet	j				Sheet 1 of 3
Rotary Dr		Beretta T44	0.00	16.00			Final Dep	oth: 16.00 m	Start Date:	07/02/2022	Driller:	MJ	Scale: 1:40
•	-					31.47 E							
					41818	34.70 N	Elevation	14.42 mOD	End Date:	09/02/2022	Logger:	SF	FINAL
Depth (m)	Sample / Tests	Field Record	ls	Casing Wate Depth Depti (m) (m)	Level mOD	Depth (m)	Legend		Des	cription		Water	Backfill
						-		MADE GROUND: BI	ack WASTE ba	nds of dark brov	vn sandy gra		
								CLAY and GRAVEL.					
						-							0.5
						-							
						-							
						-							1.0
						-							
						-							
						-							1.
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						F							7.
						F							
	Water 9	Strikes	Rema	ırks									
k at (m) Ca		Time (min) Rose to			ction pit ex	cavated to	o 1.20m						
(m) Di	etails iam (mm)	Water Added From (m) To (m)										
5.00	200			Dares	E11	Tuna	Torm: -4'	on Posser			ı	Lack Herelin	nd =
			Core	Barrel	Flush	туре		on Reason				Last Updat	
			1		1		rerminated	due to major rig br	eakdown			28/06/202	2 FAT P

	C	AUSEW — GEOTE	AY ECH			ect No. 0242	Project Nat Client: Client's Re	me: Mobuoy DAERA/N p: Tetra Tec	NIEA	on Project Ph	ase 2		orehole ID BH644A
Metho Rotary Dri		Plant Used Beretta T44	Top (m) 0.00	Base (m 16.00		dinates	Final Depth:			07/02/2022	Driller: N	41 I	Sheet 2 of 3 Scale: 1:40
						31.47 E 34.70 N	Elevation:	14.42 mOD	End Date:	09/02/2022	Logger: S		FINAL
Depth (m)	Sample / Tests	Field Records		Casing Water Depth Depth (m) (m)	Level mOD	Depth (m)	Legend			ription		Water	Backfill
uck at (m) Cas	Water S	trikes Fime (min) Rose to (n	Rema		-0.08	8.80	Bro	wn SAND and G	ly CLAY with b			elly	7.5 8.0 8.5 9.0 9.5 10.0 11.5 12.0 12.5 13.0 14.0 14.5
Casing De To (m) Dia 16.00		Water Added From (m) To (m)											
			Core	Barrel	Flush	Туре	Termination	Reason e to major rig br				28/06/2022	Poi

8	C	AUS	EW	AY			ect No. 0242	Project Na Client:	me: Mobuoy DAERA/I	Remediation Project Pha NIEA	ase 2		orehole II BH644A
		——-G	EOTE	СН				Client's Re	p: Tetra Ted	ch			
Meth otary D		Plant U		Top (m) 0.00	Base (m		dinates	Final Depth	-	Start Date: 07/02/2022	Driller: MJ		heet 3 of 3 Scale: 1:40
							31.47 E 34.70 N	Elevation:	14.42 mOD	End Date: 09/02/2022	Logger: SF		FINAL
Depth (m)	Sample / Tests	Fie	eld Records		Casing Wate Depth Depti (m) (m)	Level mOD	Depth (m)	Legend		Description		Water	Backfill
k at (m) (Strikes Time (min)	Rose to (m)	Rema Hand d		-1.58	- 16.00		own SAND and G	End of Borehole at 16.00m			15.0 16.0 16.1 17.0 17.1 18.0 19.0 20.0 21.0
Casing [Details Diam (mm)	Water From (m)	Added To (m)	_									
6.00	200	rioiii (m)	10 (m)	Core	Barrel	Flush	Туре	Termination	Reason		Last	Update	ed I
								Terminated du	e to major rig br	eakdown	28	/06/2022	ΛC

Mark Port Mark Plant Used Top (m) See (m) Cooling Plant Cooling Processor Cooling Processor Cooling Plant Cool		C	AUSEW GEOTI	AY ECH				ect No. ·0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	E	Borehole ID
Second S	Method		Plant Used	Top (m)	Base	(m)	Coor	dinates			Sheet 1 of 2
Security Cable Percuss	ion	Dando 2000	0.00	9.8	30					Scale: 1:40 FINAL	
1.50 - 1.70 85 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.5			Field Records		Casing Depth (m)	Depth			Legend Description	Water	Backfill
12.33 1.70							13.63	0.40	fine to coarse GRAVEL with fragments of red brick. Sand is fine to coarse.		0.5
SS SPT SS SPT SS SS SS S								-	with low cobble content. Sand is fine to coarse. Gravel is subangula to subrounded fine to coarse. Cobbles are subrounded. MADE GROUND: Firm black CLAY with fragments of plastic and		1.5
Fast seepage at 5.80m 7.23		PT (S)		mer SN =	2.00	Dry		-	**************************************		
11.23 2.80 MADE GROUND: Firm black CLAY with fragments of plastic and wood.							11.53	- 2.50			2.5
Truck at (m) Casing to (m) Time (min) Rose to (m) From (m) To (m) Time (hh:mm)							7.23	- 6.80	wood. Firm greyish brown silty sandy CLAY. Sand is fine to coarse.		3.0
To (m) Diameter From (m) To (m)				n) From (m)	ı) oT	m) Tin	me (hh:mm)	Hand dug inspection pit excavated to 1.20m		
Termination Reason Last Updated	To (m) Dian	neter									
Terminated on refusal 28/06/2022	9.50 2	UU									

						Proi	ect No.	Project	Name: Mobuoy	Remediation	on Proiect Ph	ase 2		Borehole ID
	S) C	CAUSEN	/AY				-0242	Client:	DAERA/I		,			BH645
	<i>S</i> -	——GEOT	ECH					Client's						
Metl	hod	Plant Used	Top (m)	Base	e (m)	Coo	rdinates							Sheet 2 of 2
Cable Per	rcussion	Dando 2000	0.00		80	2478	349.01 E	Final De	pth: 9.80 m	Start Date:	18/11/2021	Driller:	MK	Scale: 1:40
						4182	227.12 N	Elevatio	n: 14.03 mOD	End Date:	22/11/2021	Logger:		FINAL
Depth (m)	Sample / Tests	Field Records	;	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend			cription			ਬੇ Backfill
8.00 - 8.38	SPT (S)	N=50 (9,11/50 for 225 Hammer SN = 1264	mm)	8.00	7.00			X X X X X X X X X X X X X X X X X X X	Firm greyish brown	silty sandy CL	.AY. Sand is fine t	to coarse.		8.0 - 8.5 -
9.80 - 10.10	O SPT (S)	N=33 (10,12/33 for 15 Hammer SN = 1264	0mm)	9.80	8.10	4.23	9.80	X X X X X X X X X X X X X X X X X X X		End of Bore	ehole at 9.80m			9.5
							-							11.0 -
							-							12.5
							-							13.0 -
							-							13.5
							-							14.0 -
5.80 Casing	Casing to (n 5.80 Details	Trikes n) Time (min) Rose to (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	3.00	(m)	To (me (hh:mm) 01:00	Remarks Hand dug	inspection pit excava	ted to 1.20m			,	
To (m) 9.50	Diameter 200	r From (m) To (m)											I	
									ion Reason				Last Upda	
								Terminate	d on refusal				28/06/20	²² AGS

		GEOT	VAY ECH			roject No 22-0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole II BH646
Metho Cable Perc		Plant Used Dando 2000	Top (m) 0.00	Base 10.5		oordinates	Final Depth: 10.50 m Start Date: 16/11/2021 Driller: MK	Sheet 1 of 2
cable i cie	34331011	Buildo 2000	0.00	10.5	2	47875.13 E 18140.36 N	Elevation: 14.97 mOD End Date: 18/11/2021 Logger: SF	Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field Record	ls	Depth [evel Dept OD (m)	Legend Description	N Backfill
).30).70	ES1				14	.47 - 0.50	MADE GROUND: Firm brown gravelly CLAY. Gravel is fine to coarse angular. MADE GROUND: Firm black CLAY with fragments of wood, plastic, glass and tyres.	0.5
1.80 - 2.00 2.00 2.00 - 2.45	B3 ES3 SPT (S)	N=25 (10,5/6,10,5,4)	Hammer		13	.47 - 1.50	MADE GROUND: Stiff black CLAY with fragments of glass and plastic	1.5
2.60 - 3.00	B4	SN = 1368			12	37 - 2.60	MADE GROUND: Firm laminated CLAY.	2.5
3.00 3.00 3.00 - 3.45	D6 ES4 SPT (S)	N=11 (12,2/2,3,3,3) H = 1368	lammer SN		11	27 - 3.70		3.5
.00	ES5						MADE GROUND: Firm black CLAY with plastic.	4.0
					10	1.57 - 4.40	MADE GROUND: Firm brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.	4.5
.00 .30 .30	ES6 B5 D7				10	1.07 <u>-</u> 4.90	MADE GROUND: Firm brown gravelly CLAY. Gravel is fine to coarse angular.	5.0
5.30 - 5.75	SPT (S)	N=16 (25,8/5,4,4,3) F = 1368 Water strike at 5.70m			9	27 - 5.70	MADE GROUND: Firm black silty subangular fine to coarse GRAVEL with fragments of red brick.	5.5
		Water strike at 6.70m	1		8	27 - 6.70	MADE GROUND: Firm brownish black sandy gravelly CLAY. Sand is	6.1
.00	ES8				7	77 - 7.20	fine to coarse. Gravel is subangular to subrounded fine to coarse. Greyish brown clayey silty fine to coarse SAND and subangular to subrounded fine to coarse GRAVEL.	7.0
	Water	r Strikes	İ	Chise	lling De	etails	Remarks	
5.70 6.70	5.80 5.70	1) Time (min) Rose to 20 4.90 20 6.00 Water Added			To (m)	Time (hh:mn	Hand dug inspection pit excavated to 1.20m	
10.50	200						Termination Reason Last	Updated II
			1				Last	opuateu

	7					Proje	ect No.	Project Name: Mob	uoy Remediat	on Project Ph	ase 2	Bor	ehole ID
		CAUSEN	/AY			22-	0242	Client: DAEI	A/NIEA			В	H646
	9 –	——GEOT	ECH					Client's Rep: Tetra	Tech				
Metho	od	Plant Used	Top (m)	Base	e (m)	Coor	dinates			4010115		She	et 2 of 2
Cable Perci	ussion	Dando 2000	0.00	10	.50	2478	75.13 E	Final Depth: 10.50	m Start Date	16/11/2021	Driller:	IMK Sca	ale: 1:40
							40.36 N	Elevation: 14.97 m	OD End Date :	18/11/2021	Logger:		INAL
Depth (m)	Sample / Tests	Field Records	i	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend		scription		3	Backfill
.00	ES9						- - - - - - - - - -		clayey siity fine ti	o coarse SAND an EL.	d subangui	ar to	7.5 8.0 8.5
80 - 9.10	B17						Ė						
00	D8 ES10						-						9.0
.00 .00 - 9.45		N=50 (9,9/12,13,13,12 SN = 1368	?) Hammer	r		5.77	9.20	content. Sand	htly sandy slightl s fine to coarse. Cobbles are subr	y gravelly silty CL Gravel is subango ounded.	AY with low ular to subr	v cobble ounded	9.5
							-						
.0.00	ES18						-	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$					10.0
							-	\$ 0 × 8.					
0.50 - 10.65	SPT (S)	N=50 (25 for 75mm/50 75mm) Hammer SN =		10.5	8.50	4.47	10.50	201	End of Bor	ehole at 10.50m			10.5
		75mm riammer siv =	1300				-						
							-						11.0
							[
													11.5
							-						
							-						12.0
													12.5
							_						13.0
							-						
													13.5
													13.3
							-						
							-						14.0
							[
							-						14.5
	144 :	u Chuileac		Cr .	<u> </u>	. D "		Para auto					
	asing to (m	r Strikes n) Time (min) Rose to (m) From		elling To (Detail m) Tir	S ne (hh:mm)	Remarks Hand dug inspection pit ex	cavated to 1.20m				
5.70 6.70	5.80 6.70	20 4.90 20 6.00			_			•					
6- : -			_										
	Diameter	Water Added From (m) To (m)											
10.50	200						-	Termination Reason				Last Updated	
								Termination Reason Terminated at scheduled of				Lust Opuated	

	C	AUSEV	VAY			-	ect No. 0242	Project Client: Client's	Name: Mobuoy DAERA/N Rep: Tetra Tec	NIEA	on Project Ph	ase 2		Boreh BH6	
Metho Cable Perci		Plant Used Dando 2500	Top (m) 0.00	Base 8.4		24808	dinates 86.53 E 60.54 N	Final De	-		04/01/2022 28/01/2022	Driller:		Sheet Scale FIN	: 1:40
Depth	Sample /	Field Record	ls	Casing Depth	Water Depth	Level	Depth	Legend			cription	Loggeri		ag Back	
(m) 0.50 0.50 - 7.00	ES1 B10		<u> </u>	(m)	(m)	23.10	(m)		MADE GROUND: So to coarse. Gravel is MADE GROUND: Bla plastic waste includ rubber, rope, red ric	oft brown sligh subangular fin ack sandy grav ling plastics, g	itly sandy gravell ne to coarse. velly CLAY with h lass, metal, textil	igh volume	d is fine	M	0.5
.00	ES3						- - - - - - - - - - - - -								2.0
3.00	ES4						- - - - - - - -								3.0
1.00	ES5						-								4.0
5.00 5.00 - 5.45		N=19 (2,3/5,4,5,5) Ha 0894	nmmer SN =	5.00	Dry		- - - - - - - - -								5.0
5.00	ES7						-								6.0
7.00 7.00 - 8.10	ES8 B11					16.60	7.00		MADE GROUND: Gr cobble content, bar crockery. Sand is fin to coarse of pelite.	nds of gravel a	nd fragments of	plastic, me	tal and		7.0 -
ruck at (m) Ca		Strikes Time (min) Rose to	(m) From		elling I	Details	s ne (hh:mm)	Remarks		tod to 1.20				1	
Casing Do		Water Added	8.0		8.40		01:00	Hand dug	inspection pit excava	tea to 1.20m					
8.00	200		,					Terminat	ion Reason			Т	Last Upda	ated	
									d on refusal, rebore v	with rotary ria			28/06/20		

		CAUSEW				22-	ect No. 0242	Project Client: Client's	Name: Mobuoy DAERA/ Rep: Tetra Tec	NIEA	on Project Ph	ase 2			BH64	
Metho Cable Percu		Plant Used Dando 2500	Top (m) 0.00	Base 8.4		Coor	dinates	Final Dep	oth: 8.40 m	Start Date:	04/01/2022	Driller:	RW		heet 2 o Scale: 1	
							36.53 E 60.54 N	Elevation	1: 23.60 mOD	End Date:	28/01/2022	Logger:	SF	,	FINA	
Depth (m)	Sample / Tests	Field Records	i	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend	1	Des	cription			Water	Backfill	Т
(m) .00 .10 - 8.40 .40 - 8.51	ES9 B12 SPT (C)	N=50 (20 for 75mm/50 35mm) Hammer SN =	0 for 0894	8.40 Chis (m)	Dry	Details n) Tim	(m)	Remarks	MADE GROUND: Grobble content, bar crockery. Sand is fin to coarse of pelite.	reyish brown s nds of gravel a ne to coarse. G	slightly sandy gra	plastic, me	etal and	Ma	Datamil	7.5 8.0 9.0 9.5 10.0 11.5 12.0 13.5 14.0
	Diameter 200															
3.00	200							Terminati	on Reason				Last Up	date	d 🔳	_
			- [Terminated	l on refusal, rebore v	with rotany rig			28/06/			٦

	C	AUS	EW	AY			ect No. 0242	Project Name: Mobuoy Remediation Project Client: DAERA/NIEA	Phase 2		rehole ID 8H647A
			EOIE	СН				Client's Rep: Tetra Tech			
Meth Rotary D		Plant U		Top (m) 0.00	Base (m 17.50		dinates	Final Depth: 17.50 m Start Date: 28/01/202	22 Driller: PJ		neet 1 of 3 cale: 1:40
							83.52 E 60.54 N	Elevation: 23.60 mOD End Date: 28/01/202	Logger:		FINAL
Depth (m)	Sample / Tests	Fie	eld Records		Casing Wate Depth Dept (m) (m)	Level mOD	Depth (m)	Legend Description		Water	Backfill
k at (m)		Strikes Time (min)	Rose to (m	Rema Hand d		21.70 20.40	- 1.90	MADE GROUND: Black sandy GRAVEL. (Driller MADE GROUND: WASTE- Timber and black badescription)	s description)		1.4. 2.4. 2.4. 3.4. 4.4. 5.4. 6.4. 6.5.
	Details		Added								
7.50	Diam (mm) 200	From (m)	To (m)	1							
				Core	Barrel	Flush	Туре	ermination Reason	La	st Updated	
				1				erminated on engineers instruction		28/06/2022	40

						Pro	ject No.	Project	Name: Mobuoy	Remediatio	n Project Ph	ase 2	В	orehole ID
	C	AUS	EW	AY		22	-0242	Client:	DAERA/N	NIEA				ВН647А
		G	EOTE	CH				Client's	Rep: Tetra Ted	ch				
Meth		Plant U		Top (m)			rdinates	Final De	pth: 17 50 m	Start Date	28/01/2022	Driller: PJ		Sheet 2 of 3
Rotary [Drilling	Beretta	144	0.00	17.50		083.52 E		27.55 11.					Scale: 1:40
						418	060.54 N	Elevatio	n: 23.60 mOD	End Date:	28/01/2022	Logger:		FINAL
Depth (m)	Sample / Tests	Fie	ld Records		Casing Wa Depth De (m) (r	ter Level		Legend		Desc	ription		Water	Backfill
						14.40	9.60		MADE GROUND: W. description) MADE GROUND: W. MADE GROUND: W. MADE GROUND: Oidescription)	ack sandy GRA	VEL. (Driller's de	escription)		7.5 8.0 8.5 9.0 9.5 10.0 11.5 12.0 12.5 13.0
.50	ES1					9.10	- 14.50 -	******	Sandy GRAVEL. (Dri	ller's description	on)			14.5
	Water			Rema	rks									
Casing		Water From (m)		Hand	dug insp	ection pit	excavated to	o 1.20m						
17.50	200	From (m)	10 (M)	Core	Barrel	Flus	h Type	Terminat	tion Reason			1	ast Update	ed 🔳 =
							.,,,,						28/06/2022	

Client's Repr. Terra Tarich Client's Repr. Terra Tarich	3		ALICE	\ A / /	0.3/			Projec			ame: Mobuoy		on Project Ph	ase 2		orehole ID
Method		C	AUSE		4Y			22-0	242	Client:	DAERA/N	NIEA				ВН647А
Receits T44			GEC	JIE	СП					Client's Re	ep: Tetra Ted	ch				
Page Page								Coord	inates	Final Depth	h: 17.50 m	Start Date:	28/01/2022	Driller: F	PJ	
Series Ser										Elevation:	23.60 mOD	End Date:	28/01/2022	Logger:		
Series Ser	Depth (m)		Field Re	cords		Casing War	eter epth m)		Depth (m)	Legend		Desc	cription	<u>.</u>	Water	Backfill
7.50 200 Core Barrel Flush Type Termination Reason Last Updated	Casing	Water: Casing to (m)	Time (min) Rose	ed		rks	recti				andy GRAVEL. (Dril					15.0
	To (m) 17.50	Diam (mm)														
					Core	Barrel		Flush	Гуре							

		GEOT		Ь	, ,		J: •	Client's Rep: Tetra Tech	
Metho Cable Pero		Plant Used Dando 2000	Top (m) 0.00	_	.10		dinates	Final Depth: 12.10 m Start Date: 15/12/2021 Driller: MK	Sheet 1 of 2 Scale: 1:40
							08.60 E 28.08 N	Elevation: 21.92 mOD End Date: 20/12/2021 Logger: SF	FINAL
Depth (m)	Sample / Tests	Field Records	5	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description	backfill
						21.72	- 0.20	MADE GROUND: Soft greyish brown silty sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.	
.30	ES1					21.42	0.50	MADE GROUND: Soft black CLAY with plastic bags.	
.70	ES2					21.42		MADE GROUND: Firm greyish brown silty sandy gravelly CLAY. Sand i fine to coarse. Gravel is subangular to subrounded fine to coarse.	1.
						20.52	1.40	MADE GROUND: Firm brown CLAY with plastic bags, bottles and wood.	1.
.00	ES3						-		2.
							- - -		2.
.00	ES4						- - -		3
							- - -		
							-		3.
.00	ES5					18.12	3.80	MADE GROUND: Firm black sandy organic soil with wood chips and plastic.	
.00 - 4.45	SP1 (S)	N=8 (2,2/2,3,2,1) Ham 1264	imer SN =	4.00	Dry		- - -		
						17.12	4.80	MADE GROUND: Firm black CLAY with plastic bags, clothes and	4
.00	ES6						- - -	general waste.	5.
							-		5.
.00	ES7						- - -		
.00	LS/						- - -		
							- - -		
.00	ES8						-		7.
	Water	r Strikes		Chis	elling	g Details		Remarks	
uck at (m) C		Time (min) Rose to (m) From	(m)	To (m) Tim	ne (hh:mm)	Hand dug inspection pit excavated to 1.20m	
	Diameter	Water Added From (m) To (m)							
12.00	200							Termination Reason Last I	Jpdated
								Terminated on refusal 28/0	6/2022

		CAUSEW	/AY ECH			-	ect No. 0242	Project Client: Client's	DAERA/N		ase 2	В	orehole ID BH648
Meth Cable Per		Plant Used Dando 2000	Top (m) 0.00	_	e (m) .10	2480	08.60 E 28.08 N	Final De		Start Date: 15/12/2021 End Date: 20/12/2021	Driller: N	1K	Sheet 2 of 2 Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend	MADE CROUND, Fir	Description m black CLAY with plastic bag	s alathas and	Water	Backfill
3.00	ES9					13.92 13.62	- 8.00 - 8.30		general waste. MADE GROND: Black bags, glass and gene	ck CLAY with domestic waste o eral waste. Im brown and black CLAY with	of plastic, wood	d,	7.5 -
.00	ES10					13.12 12.72	- 8.80 - 9.20			m black CLAY with plastic bag	_		9.0
0.00	ES11						- - - - - - - - - -						10.0
1.00	ES12					10.72	11.20			slightly sandy gravelly CLAY. So pangular to subrounded fine to			11.5
.2.00 .2.00 - 12.4	ES13 5 SPT (C)	N=26 (5,5/6,7,7,6) Har	mmer SN =	12.0	Dry	9.82	11.70		Medium dense grey	r slightly clayey subangular fin	e to coarse GF	RAVEL.	12.0 —
		1264					- - - - -						12.5 -
							- - - -						13.0
							-						14.0 —
							-						14.5 -
Casing [Casing to (m	r Strikes)) Time (min) Rose to (i Water Added	1.4	(m)	To (s ne (hh:mm)	Remarks Hand dug	inspection pit excava	ted to 1.20m		L	
To (m) 12.00	Diameter 200	From (m) To (m)							ion Reason d on refusal		ı	Last Update 28/06/2022	

Basel		GEOT	AY ECH	Ras	()	22-	ect No. 0242	Project Client: Client's	DAERA/N		ase 2		orehole ID BH649
Meth Cable Per		Plant Used Dando 2000	0.00	_	e (m) 00	2478	89.96 E 97.37 N	Final De Elevatio		Start Date: 13/12/2021 End Date: 14/12/2021	Driller: N	MK S	heet 1 of 1 Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend		Description		Water	Backfill
0.30 0.70	ES1					19.71	0.10			oft brown slightly sandy slightly se. Gravel is subangular to sub		y CLAY.	0.5 -
2.00	ES3					18.51	1.30		MADE GROUND: Fir and flagstone.	m black CLAY with fragments	of brick, tile,	plastic	1.5 -
3.00 3.00 3.00 - 3.45	D8 ES4 SPT (S)	N=14 (3,2/2,3,4,5) Han 1264	nmer SN =	3.00	Dry		- - - - - - - - - -						2.5 -
						16.21	3.60			m brown slightly sandy slight			3.5 -
3.80 - 4.10 4.00	B7 ES5					15.91	- - 3.90 -		coarse.	rm black CLAY with fragments			4.0 —
						15.51	4.30		MADE GROUND: Fir	rm brown sandy gravelly silty bangular to subrounded fine t		fine to	4.5 -
5.00	ES6					15.01 14.81	- - 4.80 - 5.00		MADE GROUND: Blacks and concrete	ack CLAY with fragments of wo End of Borehole at 5.00m	ood, plastic, g	grass,	5.0 —
							-						5.5 -
							- - - -						6.0 —
							-						6.5 -
							- - - -						7.0 —
	18/040	r Strikes		Chia	منالم	g Detail	_	Remarks					
Casing I	Casing to (m	n) Time (min) Rose to (r	m) From (To (ne (hh:mm)		inspection pit excava	ted to 1.20m			
To (m) 5.00	Diameter 200	From (m) To (m)						Terminat	ion Reason		<u> </u>	Last Update	d = =
									d due to major rig br	eakdown		28/06/2022	

	C	AUSE — GEO	W/ OTE	AY CH				ect No. 0242	Project N Client: Client's R	DAERA/N Rep: Tetra Tec	NIEA	on Project Ph	ase 2			orehole BH649	
Metho		Plant Used		op (m) 0.00			Coor	dinates	Final Dept	t h: 14.10 m	Start Date:	05/01/2022	Driller:	RW	1	Sheet 1 c	
Cable Percı	ussion	Dando 2500		0.00	14.	10		92.17 E 96.81 N	Elevation:			05/01/2022	Logger:			Scale: 1: FINAI	
Depth (m)	Sample / Tests	Field Re	ecords		Casing Depth (m)	Water Depth	Level mOD	Depth (m)	Legend		Des	cription	1		Water	Backfill	
00 .00 - 10.00	ES1 B10			From	Chiso		13.69 Detail) Tir	(m)	In In In In In In In In In In In In In I	MADE GROUND: as made and many many many many many many many many	ack and brown itent and high, wire, concre	n slightly gravelly volume of was i	ncluding p	lastics,	PM STATE OF THE PARTY OF THE PA	SCENIII .	0.5 1.0 - 1.5 2.0 - 3.5 4.0 - 4.5 5.0 - 6.5
									-								
Casing De	etails	Water Add	led	1													
	Diameter		o (m)														
									Terminatio	n Reason				Last Up	odate	ed	
									Terminated of	on refusal, rebore v	with rotary rig			28/06,	/2022	2	P

		GEOT				22-	ect No. 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole II BH649A
Metho Cable Perco		Plant Used Dando 2500	Top (m) 0.00	Base 14.	_	2478	92.17 E 96.81 N	Final Depth: 14.10 m Start Date: 05/01/2022 Driller: RW Elevation: 19.69 mOD End Date: 05/01/2022 Logger: SF	Sheet 2 of 2 Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field Record	s	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description	Backfill M
00	ES3						- - - - - - - - -	MADE GROUND: Black and brown slightly gravelly sandy SILT with medium cobble content and high volume of was including plastics timber, metal, glass, wire, concrete, red brick, polystyrene, textile:	7.5
00	ES4						- - - - - - -		9.
0.00 0.00 - 14.10	ES5 B11						- - - - - - -		10.0
00	ES6						- - - - - - - -		11
2.00	ES7						- - - - - - - - -		12.
3.00 3.00 - 13.45		N=25 (4,6/5,5,7,8) Ha 0894	mmer SN =	13.0	Dry		- - - - - - -		13.
4.00	ES9					5.59	14.10	End of Borehole at 14.10m	14.
							-		
uck at (m) Ca		r Strikes) Time (min) Rose to	(m) From	Chis (m)	elling To (r	(Detail	S ne (hh:mm)	Remarks Hand dug inspection pit excavated to 1.20m	
Casing Do	etails Diameter	Water Added From (m) To (m)						
								Termination Reason Las	t Updated
								Terminated on refusal, rebore with rotary rig	3/06/2022 AG

	C	AUSE\	VA TECH	Y			ct No.)242	Project Name: Client:	DAERA/N	NIEA	on Project Ph	ase 2		orehole II BH649B
20.11					, ,			Client's Rep:	Tetra Tec	ch T		1		
Metho Rotary Dr		Plant Used Beretta T44	Top ((m) Ba:	se (m) 9.00	24788	e 40 E	Final Depth:	19.00 m	Start Date:	31/01/2022	Driller: PJ		sheet 1 of 3 Scale: 1:40
							6.80 N	Elevation: 19	9.69 mOD	End Date:	31/01/2022	Logger:		FINAL
Depth (m)	Sample / Tests	Field Reco	ords	Casii Dep (m	ng Water th Depth (m)	Level mOD	Depth (m)	Legend			cription	'	Water	Backfill
	Water			emarks		13.69		MADE C medium timber, 6.00m to	cobble con	ack and browr	n slightly gravelly volume of was i de, red brick, pol	ncluding plastic	s,	1.5 2.0 2.9 3.0 4.0 4.9 5.0 6.0 7.0
k at (m) Ca	asing to (m)	Time (min) Rose t	o (m) Ha	and dug	inspect	ion pit ex	cavated to	1.20m						
Casing D		Water Adde												
9.00	200	From (m) To (
			C	Core Ba	rrel	Flush	Туре	Termination Rea	son			La	st Update	ed
								Terminated on engi	neers instru	ction] 2	28/06/2022	AC

247/396 50 N Bievation: 19,69 m/o) Flaid fectors. Water Strikes Security Security Security (Security Security C	AUSEW GEOTE	AY ECH		Projec 22-0		Project Client: Client's	DAERA/N		ase 2		orehole ID BH649B	
Couling Details Water Strikes Remarks Remar	Method Rotary Drilling				24788	8.40 E						Scale: 1:40
Water Strikes Water Strikes Water Added Groy Gamp Cetails Water Cetails Gamp		Field Pecards	Ca	sing Water	Level	Depth	+ -	19.03 11100		2088611	ıter	
Core Barrel Flush Type Termination Reason Last Updated	Water Suck at (m) Casing to (m) Casing Details To (m) Diam (mm)	Strikes Time (min) Rose to (n	Remark	s	8.69			medium cobble con timber, metal, glass	ack and brown slightly gravelly tent and high volume of was in the concrete, red brick, pole with the concrete, red brick, pole with the concrete and the concrete are the concr	including plastics, ystyrene, textiles		7.5 8.0 9.0 9.5 10.0 11.5 12.0 12.5 13.0
			Core B	arrel	Flush	Туре	Terminati	ion Reason				- Pori

C	AUSEW GEOTE	AY CH		Project 22-0		Project Name: Mobuoy Remediation Project Pha Client: DAERA/NIEA Client's Rep: Tetra Tech	ase 2	Borehole ID BH649B
Method Rotary Drilling	Plant Used Beretta T44	Top (m) B	ase (m) 19.00	Coordi 247888		Final Depth: 19.00 m Start Date: 31/01/2022	Driller: PJ	Sheet 3 of 3 Scale: 1:40
				417996		Elevation: 19.69 mOD End Date: 31/01/2022	Logger:	FINAL
Depth (m) Sample / Tests	Field Records	Cu	asing Water Depth (m)	3.19 0.69	Depth (m)	Legend MADE GROUND: WASTE- sandy GRAVEL with timb black bags. (Driller's description) Sandy GRAVEL. (Driller's description) End of Borehole at 19.00m		15.0 - 15.5 - 16.5 - 16.5 - 17
Water S uck at (m) Casing to (m)		Remark) Hand du		ion pit exc	- - - - - - - - avated to	1.20m		21.5
Casing Details To (m) Diam (mm) 19.00 200	Water Added From (m) To (m)	Core B	arrel	Flush 1	Гуре	Termination Reason Terminated on engineers instruction		7pdated

		GEOTI				22-0	ct No.)242	Project Client: Client's	DAERA/I		nase 2		BH65	0
Metho Oynamic Sa		Plant Used Dando Terrier	Top (m) 0.00	3.0	0	24779	1.51 E 8.85 N	Final De		Start Date: 19/11/2021 End Date: 19/11/2021		5	heet 1 o Scale: 1: FINAl	50
Depth (m)	Sample / Tests	Field Records		Casing Depth I		Level mOD	Depth (m)	Legend	,	Description	<u> </u>	Water	Backfill	
30 - 0.50 60 - 0.90 00 - 1.20 20 - 1.65	ES1 ES2 ES3 SPT (C)	N=2 (1,1/1,0,1,0) Hamr 0491	mer SN =	0.00 (16.12 15.32	0.10		rubber. Sand is fine	oft brown sandy gravelly CLAY to coarse. Gravel is subangul ery loose dark greyish black sints of tin glass, timber, rubber	ar fine to coars	se.		1.0
00 - 2.45 40 - 2.60	SPT (C)	N=4 (1,1/1,1,1,1) Hami 0491	mer SN =	0.00	Dry		- - - - - - - -							2.0
										End of Borehole at 3.00m				3.5 4.0 4.5 5.0 5.5 6.0 7.5 8.0 8.5
uck at (m) Ca		r Strikes Time (min) Rose to (r			etails Diamet 150	er Ha		spection p	it excavated to 1.20m	n		Last Update	ed F	

		GEOT	ECH			22-0		Client: DAERA/NIEA Client's Rep: Tetra Tech		BH651
Metho Cable Perc		Plant Used Dando 2000	Top (m) 0.00	Base 8.0	00	24776	2.24 E 1.37 N	Final Depth: 8.00 m Start Date: 17/1 Elevation: 8.77 mOD End Date: 17/1		Sheet 1 of 2 Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field Records		Depth		Level mOD	Depth (m)	Legend Description	1	Backfill
.50 .00 .00	B9 ES2					8.67	- 0.10	MADE GROUND: Brown slightly gravelly brick and concrete. Sand is fine to coars to medium. MADE GROUND: Firm dark grey sandy g volume of waste including shredded pla glass, ceramics, concrete, red brick and Gravel is angular to subrounded fine to	gravelly silty CLAY with high astics, metal, hard plastics, rope. Sand is fine to coarse.	0.5
.00 .00 .00 - 2.45	B10 ES3 SPT (S)	N=8 (1,1/2,1,3,2) Hami 1368	mer SN =	2.00	Dry		- - - - - - - - - - - -			2.9
00 00 00	B12 B13 E54						- - - - - - - - - - - - - - - - - - -			4.0
70 90 00 00 - 5.38	B14 ES5 B15 SPT (S)	N=50 (3,6/50 for 225m Hammer SN = 1368	nm)	5.00		4.07 3.77	- 4.70 - 5.00	MADE GROUND: Grey sandy gravelly SII concrete timber and hard plastics. Sand angular to rounded fine to coarse. MADE GROUND: Grey and black sandy gof timber and plastic. Sand is fine to coarse.	d is fine to coarse. Gravel is gravelly SILT with fragments	
50 50 50 70	B16 D17 ES6 B18	Water Strike at 5.7m			:	3.07	- - - 5.70 - - -	to medium. 5.00m to 5.70m: Slight putrid odour Grey silty fine to medium SAND.		5.5
.50	ES7						- - - -			6.1
00 00 - 7.45	B19 SPT (C)	N=32 (2,3/5,7,9,11) Ha = 1368	ammer SN	7.00		1.87	- 6.90 - -	Dense grey sandy subangular to subrou Sand is fine to coarse.	nded fine to coarse GRAVEL.	7.0
uck at (m) Ca 5.70		Strikes) Time (min) Rose to (r	m) From		To (m)		e (hh:mm)	lemarks land dug inspection pit excavated to 1.20m unable	e to take ES sample at 3.0m as	s not enough fines .
Casing Do To (m) [8.00	etails Diameter 200	Water Added From (m) To (m) 5.70 8.00						ermination Reason	last	Updated II
								erminated at scheduled depth		06/2022 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

	C	AUSEV	V A	Y CH			ect No. ·0242	Project Client:		NIEA	on Project Pha	ase 2		Boreh BH	ole ID 651
Meti	hod	Plant Used	To	p (m) Ba	ise (m	Coor	dinates				17/10/0001			Sheet	2 of 2
Cable Per	rcussion	Dando 2000	0	0.00	8.00	2477	62.24 E	Final De	epth: 8.00 m	Start Date:	17/12/2021	Driller:	DE	Scale	: 1:40
							41.37 N	Elevatio	8.77 mOD	End Date:	17/12/2021	Logger:	SF	FIN	IAL
Depth (m)	Sample / Tests	Field Recor	ds	Cas De (r	ing Water pth Depth n) (m)	Level mOD	Depth (m)	Legend		Desc	cription		, and the second	Bacl	cfill
	Water Casing to (m)	Strikes Time (min) Rose to Water Added From (m) To (r) 5.70 8.00	n)		nisellir	0.77	- 8.00		Dense grey sandy so Sand is fine to coars	End of Bore	ehole at 8.00m		GRAVEL.	nough	9.0 — 9.5 — 9.0 — 9.5 — 11.0 — 11.5 —
									d at scheduled depth	1			28/06/20		AGS

		GEOTI					0242	Client:					BH652
Metho ynamic Sa		Plant Used Dando Terrier	Top (m) 0.00	Base 6.0		Coord	linates	Final De	epth: 6.00 m	Start Date: 19/11/2021	Driller: JC		Sheet 1 of Scale: 1:5
							52.24 E 55.09 N	Elevatio	n: 14.54 mOD	End Date: 19/11/2021	Logger: SF		FINAL
Depth (m)	Sample / Tests	Field Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend		Description			Backfill
10	ES1					14.44	0.10		GRAVEL of mixed lit	yey sandy angular to subangu hologies including quartz wit			
50 - 1.10	ES2						- - - - -			eyish brown very gravelly san is angular to subangular fine t			
20 - 1.65	SPT (C)	N=4 (1,1/1,1,1,1) Hamr 0491	mer SN =			13.54 13.34	- 1.00 - 1.20		shredded plastic.	DMESTIC WASTE- Black waste		/	
00 - 3.00 00 - 2.45	ES3 SPT (C)	N=2 (1,1/1,0,1,0) Hamn 0491 Water strike at 2.20m	mer SN =			12.54	2.00		Poor recovery.				Z
00 - 3.45	SPT (C)	N=12 (2,2/3,3,3,3) Han	nmer SN =				-						
20 - 4.30	B5	0491				11.34	3.20			oft to firm dark brown sandy g avel is angular to subangular f ist and rare plastic.			
00 - 5.00 00 - 4.45	ES4 SPT (C)	N=12 (1,2/2,3,3,4) Han	nmer SN =			10.24	-						Ш
30 - 6.00	В6	0491				10.24	4.30			ht greyish brown slightly graven nded to subrounded fine to co			
00 - 5.45	SPT (C)	N=11 (2,2/3,3,2,3) Han 0491	nmer SN =				-						
00 - 6.45	SPT (C)	N=16 (3,3/4,3,4,5) Han 0491	nmer SN =			8.54	- - 6.00			End of Borehole at 6.00m			
		r Strikes		ing D			emarks						
uck at (m) Ci	asing to (n 2.20	n) Time (min) Rose to (n 20 2.20	n) To (n 6.00		Diame 150		and dug ir	spection p	it excavated to 1.20m)			
						Te	erminatio	on Reasor	1		La	ast Upda	ted 🔳
						Te	rminated	at schedul	ed depth			28/06/20	

		CAUSEW	AY ECH				ect No. 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH653
Metho Cable Perc		Plant Used Dando 2000	Top (m) 0.00	Base 8.0		Coord	dinates	Final Depth: 8.00 m Start Date: 16/11/2021 Driller: DE	Sheet 1 of 2 Scale: 1:40
							55.59 E 54.77 N	Elevation: 5.80 mOD End Date: 17/11/2021 Logger: SF	FINAL
Depth (m)	Sample / Tests	Field Records		Casing N Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description	ਬੇ Backfill ≯
0.00 0.50 0.50	B1 B2 ES1					5.50	0.30	MADE GROUND: Soft brown sandy SILT. Sand is fine to coarse. MADE GROUND: Soft brown silty gravelly CLAY with fragments of red brick. Gravel is angular fine to coarse.	
1.00	ES2						-		1.0
1.20	В3					4.60	1.20	Grey sandy angular fine to coarse GRAVEL. Sand is fine to coarse.	- -
1.40 1.40 - 1.85	D4 SPT (S)	N=3 (0,0/1,0,1,1) Hami 1368	mer SN =			4.40	1.40	Very loose grey fine SAND.	1.5 —
2.00	ES3					4.00	1.80	Very loose brown fine SAND.	2.0
2.40 2.40 - 2.85	B5 SPT (S)	N=2 (0,0/0,1,0,1) Hamr 1368	mer SN =				- - - -		2.5
2.90 3.00 3.00 3.00 3.00 3.00 - 3.45	D6 D12 D7 ES4 SPT (S)	N=7 (1,2/1,2,2,2) Hami 1368	mer SN =			2.80	3.00	Medium dense brown fine SAND.	3.5
4.00	ES5						-		4.0
4.50 4.50 4.50 - 4.95 5.00	D13 D8 SPT (S)	N=12 (2,3/3,3,3,3) Han 1368	nmer SN =				-		4.5
5.50 5.50 5.50 - 5.95 6.00	D14 D9 SPT (S)	N=13 (2,3/3,4,3,3) Han 1368	nmer SN =						5.5
6.50 6.50 6.50 - 6.95	D10 D15 SPT (S)	N=15 (2,2/4,3,4,4) Han 1368	nmer SN =				-		7.0
Struck at /anl/o-		r Strikes n) Time (min) Rose to (n	n) From (Details	ie (hh:mm)	Remarks	
Casing D		Water Added	riom (111)	To (m	, IIIM	ie (iin:mm)	Hand dug inspection pit excavated to 1.20m	
5.00	_00	3.00						Termination Reason Last U	pdated
								Terminated at scheduled depth 28/06	/2022 AGS

	CAUSEW	/AV				ct No.			Remediation Project Ph	ase 2		ehole ID
	GEOT	ECH			22-0	242	Client:	DAERA/N			B	H653
							Client's	Rep: Tetra Tec	ch			
Method ble Percussion	Plant Used Dando 2000	Top (m) 0.00	Base 8.0		Coord 24755	inates	Final De	pth: 8.00 m	Start Date: 16/11/2021	Driller: D	ıF l	et 2 of 2 ale: 1:40
						4.77 N	Elevatio	n: 5.80 mOD	End Date: 17/11/2021	Logger: Si	F F	INAL
Depth Sample (m) Tests	/ Field Records	3	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend		Description	^	Water	ackfill
D11 D16	N=14 (2,3/3,4,3,4) Har 1368				-2.20	(m)		Medium dense brow			MA CONTRACTOR OF THE PROPERTY	9.0 - 10.0 - 10.5 11.0 - 12.5 12.0 - 13.5 14.0 - 14
						-						14.5
	er Strikes				Details		Remarks					

		CAUSEW	AY			oject No. 2-0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH654
Metho Cable Perc		Plant Used Dando 2000	Top (m) 0.00	Base (m 8.00	n) Co	ordinates	Final Depth: 8.00 m Start Date: 19/11/2021 Driller: DE	Sheet 1 of 2 Scale: 1:40
						7559.40 E 7391.44 N	Elevation: 7.39 mOD End Date: 22/11/2021 Logger: SF	FINAL
Depth (m)	Sample / Tests	Field Records		Casing Wate Depth Dept (m) (m)	h		Legend Description	Backfill
0.00 1.00 1.00 1.00 - 1.45 1.50 1.50 2.00 2.00 - 2.45 2.50	B3 D4	N=7 (1,1/2,1,2,2) Ham 1368 N=11 (3,2/2,3,3,3) Har 1368			5.99 4.89	- - - - - - - -	MADE GROUND: Soft to firm light brown slightly gravelly very sandy CLAY with roots and rootlets. Sand is fine to medium. Gravel is subangular fine to coarse of flint. MADE GROUND: Firm brown slightly silty CLAY with rare rootlets. Gravel is subangular fine to medium of schist. MADE GROUND: Grey clayey sandy subangular fine to coarse GRAVEL of flint, schist and slate. Sand is fine to coarse.	0.5
3.50 3.50 - 3.95 4.00	B6 SPT (S) D7 ES5	N=14 (1,2/3,3,4,4) Har 1368	nmer SN =		3.99	-	Medium dense light grey silty fine to medium SAND. Medium dense brown fine SAND.	3.5
4.50 4.50 - 4.95 5.00 5.00	B8 SPT (S) D9 ES6	N=10 (1,1/2,2,3,3) Har 1368	nmer SN =	4.50 4.7	0			4.5
6.00 6.00 - 6.45	D10 SPT (S)	N=21 (2,5/5,5,5,6) Har 1368	nmer SN =	6.00 3.2	1.45	5.90	Medium dense brown fine SAND.	6.5
	Water	r Strikes		Chiselli	ng Deta	ails	Remarks	
Casing D		Water Added From (m) To (m) 1.50 8.00				Time (hh:mm)	Hand dug inspection pit excavated to 1.20m	
							Termination Reason Last Upd	
							Terminated at scheduled depth 28/06/2	

	CAUSEW	/AV				ct No.			Remediation Project Ph	ase 2		ehole ID
	GEOT	ECH			22-0)242	Client:	DAERA/N			B	H654
							Client's I	Rep: Tetra Tec	:h	T		
Method ole Percussion	Plant Used Dando 2000	Top (m) 0.00	Base 8.0			9.40 E	Final Dep	th: 8.00 m	Start Date: 19/11/2021	Driller: D)F I	eet 2 of 2 ale: 1:40
						1.44 N	Elevation	: 7.39 mOD	End Date: 22/11/2021	Logger: S	F	INAL
Depth Sample / (m) Tests	Field Records	,	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend		Description		Water	Backfill
- 7.95 SPT (S)	N=7 (1,1/1,2,2,2) Ham 1368	mer SN =	7.50	1.80	-0.01	- 7.40 - -		Medium dense brov Loose brown fine SA				7.5
D11					-0.61	- - 8.00 -			End of Borehole at 8.00m			8.0
						-						8.5
						- - - -						9.0 -
												9.5
						-						10.0 -
						- - -						10.5
						-						11.0
						- - -						12.0
						-						12.5
						-						13.0
						-						13.5
						- - -						14.0
						- - - -						14.5
Moto	er Strikes n) Time (min) Rose to (elling	Details	e (hh:mm)	Remarks					

	/ –	GEOT	ECH	Ь		22-0	0242	Project f Client: Client's f	Name: Mobuoy DAERA/N Rep: Tetra Tec	NIEA	on Project Ph	ase 2			BH65	5
Method Cable Percu		Plant Used Dando 2500	Top (m) 0.00	12.		24811	5.68 E	Final Dep			17/12/2021 20/12/2021	Driller: Logger:			heet 1 o Scale: 1: FINAl	:40
Depth (m)	Sample / Tests	Field Record	ls	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend		Des	cription	ļ		Water	Backfill	Π
0.20 - 4.00	B8 ES1					24.77	0.20		MADE GROUND: Da coarse. Gravel is sul MADE GROUND: Bla domestic waste incl ACMs and metal. S subrounded fine to	bangular to su ack sandy grav luding glass, p and is fine to	brounded fine to velly CLAY with h lastics, concrete	o coarse. ligh volume , timber, su	of spected			0.5
.00	ES2						-									1.0
00	ES3						-									2.0
		N=13 (2,2/3,3,4,3) Ha 0894	ammer SN =	3.00	Dry		-									3.0
	ES5 B9						-									4.0
5.00	ES6						-									5.0
5.00 5.00 - 11.30	ES7 B15						-									6.0
7.00	ES10						- - - - -									7.0
ruck at (m) Cav		Strikes Time (min) Rose to	(m) From		elling To (n	Details	e (hh:mm)	Remarks	nspection pit excava	ted to 1 20m					•	
rackat (m) cas	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Time (time) rose to	()	(,		.,	<u>- (</u>	nanu dug ii	ispection pit excava	teu to 1.20m						
Casing De		Water Added														
To (m) D 12.30	iameter 200	From (m) To (m)													
									on Reason on blowing sands a				28/06/2			Į

		AUSEW				22	ect No. -0242	Project N Client: Client's I	DAERA/N		ase 2	E	rehole ID BH655
Meth Cable Per		Plant Used Dando 2500	Top (m 0.00	_	.40	2481	115.68 E 063.91 N	Final Dep		Start Date: 17/12/2021 End Date: 20/12/2021	Driller: F	RW Sc	eet 2 of 2 cale: 1:40 FINAL
Depth	Sample /	Field Records		Casing Depth	Depth	Level mOD	Depth	Legend	-	Description		-	Backfill
(m) 3.00	ES11			(m)	(m)	IIIOD	(m)	, i	domestic waste incl	ack sandy gravelly CLAY with h luding glass, plastics, concrete and is fine to coarse. Gravel is coarse.	, timber, sus	of pected	7.5 8.0 -
9.00	ES12						- - - - - - -						9.0 -
.0.00	ES13						-						10.0 -
1.00	ES14						-						11.0 -
1.30 - 12.4	00 B16					13.67	11.30		Brown fine to coars	se SAND and angular fine to co	oarse GRAVEI	L.	11.5
						12.57	12.40			End of Borehole at 12.40m			12.5
							-						13.0 -
							-						13.5
							-						14.0 -
							-						14.5
Casing [Casing to (m) Details	Strikes Time (min) Rose to (Water Added			To (g Detai	ls me (hh:mm)	Remarks Hand dug in	spection pit excava	ted to 1.20m		. '	,
To (m) 12.30	Diameter 200	From (m) To (m)					-	Terminatio	nn Reason			Last Updated	
									on blowing sands a	and gravels		28/06/2022	AGS

Moderate seepage at 0.70m 13.37 0.60 ES2 4.70 ES5 555 6 2 1.37 0.60 ES4 9.27 4.70 ES5 6 2 1.37 1.37 1.00 1.37 1.00			CAUSEN	/AY ECH			-	ect No. -0242	Project Client: Client's		NIEA	on Project Ph	ase 2			oreho	
24/392/3-61					_	-	Coor	dinates	Final De	onth: 7 10 m	Start Date:	22/04/2022	Driller:	CC	S	heet	1 of 1
Moderate seepage at 0.70m 13.37	Cable Percu	ussion	Dando 3000	0.00	7.	10				·							
Moderate seepage at 0.70m 13.37			Field Record	5	Depth	Depth			Legend	'	Des	cription		1	Water	Back	fill
9.27 4.70 553	50		Moderate seepage at	0.70m			13.37	0.60		fragments of wood Gravel is subangula MADE GROUND: B sheeting, textiles, ti	and fragment r to subround lack decompo in cans, batter	es of plastic. Sand led fine to coarse using organic was	d is fine to de.	stic bags,			0.
9.27 4.70 Essa Part 00																1.	
9.27 4.70 ES6 Trim becoming stiff grey slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Grave is subangular to subrounded. 7.07 6.90 6.87 7.10 Water Strikes Chiselling Details Water Mile (min) Rose to (m) From (m) To (00	ES4															3.
Termination Reason A	00	ES5					9.27	4.70									4
Termination Reason Targe BOULDER/Possible BEDROCK recovered as subangular fine to coarse GRAVEL Large BOULDER/Possible BEDROCK recovered as subangular fine to coarse GRAVEL End of Borehole at 7.10m	00	ES6							×-0	low cobble content	. Sand is fine t	to coarse. Gravel	is subangu	ılar to			5
Water Strikes Chiselling Details Remarks							7.07	- - - 6.90		Large BOULDER/Po	ssible BEDROO	CK recovered as :	subangular	fine to			6
Casing Details Water Added From (m) To (m) To (m) To (m) O1:00							6.87	7.10		coarse GRAVEL	End of Bore	ehole at 7.10m					
Casing Details Water Added From (m) To (m) To (m) To (m) O1:00						Ш											
6.90 200 4.00 6.90 Termination Reason Last Updated	0.70 Casing De	osing to (m 0.70	Time (min) Rose to (6.9	(m)	To (n	n) Tir	me (hh:mm)	Remarks								
	6.90														1 /		
Terminated on suspected bedrock/large boulder 28/06/2022											a alı /lc ::==	ldor					

	C	AUSEW GEOT	/AY ECH			Project 22-02		Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH602R
Meth		Plant Used	Top (m)	_		Coordin	ates	Final Depth: 6.20 m Start Date: 21/04/2022 Driller: CC	Sheet 1 of 1
Cable Per	cussion	Dando 3000	0.00	6.2	2	247967. 118166.		Elevation: 14.83 mOD End Date: 21/04/2022 Logger: SF	Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field Records	;	Depth [evel nOD	Depth (m)	Legend Description	at Backfill
50	ES1	Moderate seepage at (0.90m		1.	4.13	0.70	MADE GROUND: Soft brown slightly sandy slightly gravelly CLAY w fragments of plastic, rags, fragments of glass and wood. Sand is fit to coarse. Gravel is subangular fine to coarse. Om to 0.7m: Putrid odour MADE GROUND: Black decomposing organic waste with plastic batextiles, sponge, wire, food wrapping, ceramics, rubber, glass and wood. O.7m to 3.0m: Strong putrid odour	ne 0.5
00	ES3					- - - - - - - - - -			2.5
00	ES4					1.83	3.00	MADE GROUND: Soft light brown slightly gravelly sandy CLAY with some shredded plastic and fragments of wood. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. 3.0m to 3.3m: Mild putrid adour Firm becoming stiff grey slightly sandy slightly gravelly silty CLAY with subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse.	
00	ESS					-			4.4 4.5 5.0
						3.83 -	6.00 6.20	Large BOULDER/Possible BEDROCK: Recovered as subangular fine coarse GRAVEL End of Borehole at 6.20m	6.0
						-			7.0
Casing Co (m) 6.20	Casing to (m 0.90	Time (min) Rose to (i 20 0.80	6.00	(m)	Iling D To (m) 6.20	Time (h	hh:mm) :00	Remarks	
0.20	200								st Updated 8/06/2022 A G

Meth		AUSEW GEOT	AY ECH	Raco	(m)	22-0	oct No. 0242 dinates	Project N Client: Client's R	DAERA/N Rep: Tetra Tec	NIEA	on Project Ph	ase 2			BH60	3
Cable Per		Dando 3000	0.00	3.8		24791	.0.24 E 23.37 N	Final Dept			25/03/2022 25/03/2022	Driller:			heet 1 c Scale: 1: FINAl	:40
Depth (m)	Sample / Tests	Field Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend		Desc	ription			Water	Backfill	Т
00	ES1					14.20	0.10	₩ N	/IADE GROUND: So /IADE GROUND: Bla hargers, tablet pac	ack DOMESTIC			astic,			1.0 -
00	ES3						-									2.0 -
.00	ES4						-									3.0
						10.50	3.80			End of Bore	hole at 3.80m					4.0 -
							-									4.0 -
							- - - -									4.5
							-									5.0 -
							- - -									5.5
							-									6.0 -
							-									6.5
							- - -									7.0 -
	Water	Strikas		Chica	llin-	Details	<u> </u>	Remarks								
Casing To (m)	Casing to (m)	Time (min) Rose to (r Water Added From (m) To (m)	m) From (i		To (m		e (hh:mm)	DTB 2.10m								
3.80	200						-	Terminatio	n Reason				act	Jpdate	d ==	<u>_</u>
									due to significant ga	assing from ha	se of horehole)6/2022		4

		GEOT				22-	ect No.	Project Client: Client's	Name: Mobuoy DAERA/N Rep: Tetra Tec	NIEA	on Project Ph	ase 2		E	orehole 3H603I	R
Metl Cable Per		Plant Used Dando 3000	Top (m) 0.00	7.0			dinates 83.25 E	Final De	pth: 7.00 m	Start Date:	21/04/2022	Driller:	СС		heet 1 of Scale: 1:4	
							97.86 N	Elevatio	n: 15.07 mOD	End Date:	21/04/2022	Logger:	SF		FINAL	
Depth (m)	Sample / Tests	Field Record	s	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend	MADE GROUND: G		cription	maulor fins		Water	Backfill	
.00	ES1	Moderate seepage at	0.40m				-		coarse GRAVEL with tops, tin cans, wire, Sand is fine to coars 0.0m to 5.3m: Putrid odos	n plastic bags, foam, polysty se.	sheeting, food v	vrapping, b	ottle	▼		1.0
.00	ES3						-									2.0
.00	ES4						-									3.5
.00	ES5						-									4.0
.00	ES6					9.76	5.30		Stiff grey slightly sai coarse. Gravel is sul				e to	-		5.0
.00	ES7							× × × × × × × × × × × × × × × × × × ×								6.5
						8.26	6.80	***	Possible BEDROCK:	recovered as	subangular fine	to coarse G	GRAVEL	-		
						8.06	- 7.00 -	[\(\frac{1}{2}\)\(\fr		End of Bore	ehole at 7.00m			1		7.0
							-									
ouck at (m) 0.40		r Strikes) Time (min) Rose to 0.40		(m)	elling I To (m 7.00	ı) Tin	s me (hh:mm) 01:00	Remarks								
Casing	Details	Water Added														
To (m) 6.50	Diameter 200)													
0.30	200							Terminat	ion Reason				Last Up	date	d T	7
								Terminate	d on possible bedroc	k			28/06/	/2022	Λſ	Ź

8				,			ect No.	Project	Name: Mobuoy	Remediation Pr	oject Pha	ase 2			orehol	
		AUSEV	VAY TECH			22-	0242	Client:	DAERA/I	NIEA					BH60	7
	7	GEO	ГЕСП					Client's	Rep: Tetra Ted	ch						
Metl Cable Per		Plant Used Danod 3000	Top (m		e (m) 80	Coor	dinates	Final De	pth: 0.80 m	Start Date: 24/0	 03/2022	Driller:	CC	1	heet 1	
Cable Per	cussion	Danod 3000	0.00	0.	80	2480	14.10 E			,					Scale: 1	:40
	- I			Casing	Water		70.40 N	Elevatio	n: 3.70 mOD	End Date: 24/0	03/2022	Logger:	SF	L.	FINA	1
Depth (m)	Sample / Tests	Field Recor	ds	Casing Depth (m)	Depth (m)	Level mOD	Depth (m)	Legend	Brown gravelly fine	Description to coarse SAND with		le content	Gravel	Water	Backfill	
20	ES1					3.50	0.20		is subangular to ang \angular.	gular fine to coarse.	Cobbles ar	re subangı	ular to /			
50	ES2								Grey angular fine to content.	coarse GRAVEL wit	h medium:	angular co	obble			0.5
						2.90	0.80	3,000		End of Borehole	at 0.80m					
							-									1.0 -
							-									1.5
							-									
																2.0 -
							-									2.5
							-									2.3
																3.0 -
							ŧ									
							-									3.5
							-									4.0 -
							-									
																4.5
							-									
							-									5.0 -
							-									5.5
							-									
							-									6.0 -
							-									6.5
							-									6.5
							Ŀ									7.0 -
							-									
	141. *	Chuileac		<u> </u>		- D-4 "		Darri '								
ck at (m)		Strikes Time (min) Rose to	(m) From		To (m) Tir	s ne (hh:mm)	Remarks DTB 3.70m								
Casing	Details Diameter	Water Added														
0.80	200							Terminat	ion Reason				Last Up	date	d 💻	<u></u>
									d on suspected bedro	nck			28/06/			<u> </u>

						Proje	ct No.	Project	Name: Mobuoy	Remediation Project Ph	ase 2	В	orehole I
	C	AUSEV	MA	Y		22-0	0242	Client:	DAERA/I	NIEA			BH608
		——GEO	TEC	Н				Client's	Rep: Tetra Ted	ch			
Met		Plant Used	_	(m) Ba		Coord	linates	Final De	unth: 0.45 m	Start Date: 24/03/2022	Driller: CC	9	Sheet 1 of
Cable Pe	ercussion	Dando 3000	0.	.00	0.45	24802	28.10 E	Fillal De	: ptii: 0.45 iii	Start Date: 24/05/2022	Driller. CC		Scale: 1:4
							20.30 N	Elevatio	n: 14.29 mOD	End Date: 24/03/2022	Logger: SF		FINAL
Depth (m)	Sample / Tests	Field Reco	rds	Ca: De	ing Water pth Depth n) (m)	Level mOD	Depth (m)	Legend	1	Description		Water	Backfill
.20	ES1						_		Brown sandy suban	gular to angular fine to coarse e content.	GRAVEL of schist		
20						13.89	8:49	ZVVVV					
						13.84	0.45		Suspected BEDROC	End of Borehole at 0.45m		-1	
							-						
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							-						
							-						
	Water					g Details		Remarks					
uck at (m)) Casing to (m)	Time (min) Rose to	o (m) F	rom (m) 0.40	To (e (hh:mm) 01:00	DTB 4.00r	n				
				0.40	0	. '							
C= -:	Det-"-	14/c+ 4 1 1											
To (m)	Details Diameter	Water Added											
0.45	200												
								Terminat	tion Reason			Update	
	i l	1			1	- 1		T	d on suspected bedro	1.	1	/06/2022	

Na al		AUSEW GEOT		200 (1-1)	22-(oct No.	Project Client: Client's		NIEA	on Project Ph	ase 2			BH60	9
Meth Cable Per		Plant Used Dando 3000	Top (m) B	0.40	24806	60.80 E 86.20 N	Final De			24/03/2022	Driller:			heet 1 o Scale: 1 FINA	:40
Depth (m)	Sample / Tests	Field Records	S Ca	ising Water epth Depth (m) (m)	Level mOD	Depth (m)	Legend			cription			Water	Backfill	Т
.20	ES1				13.91	0.40		Brown sandy suban content. Sand is fin	e to coarse.	lar GRAVEL of so	hist with lov	w cobble			0.5
						-									2.0
						-									3.0
						-									3.5
						-									4. <u>.</u> .
						-									5.4
															6. 7.
uck at (m)	Water S	Strikes Time (min) Rose to (Cm) From (m		g Details m) Tim	ie (hh:mm)	Remarks DTB 4.90n								_
Casing I To (m) 0.40	Details Diameter 200	Water Added From (m) To (m)													
								tion Reason d on suspected bedro	ock.			28/06/2			F

		AUSEV GEOT					0242	Client:						BH63	
Meth Cable Per		Plant Used Dando 3000	Top (m)	_	(m) 20	Coord	dinates	Final De	epth: 7.20 m	Start Date:	23/03/2022	Driller: (C I	Sheet 1 c Scale: 1:	
							36.10 E 07.20 N	Elevatio	on: 4.38 mOD	End Date:	23/03/2022	Logger: S		FINA	
Depth (m)	Sample / Tests	Field Record	s	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend			cription	'	Water	Backfill	
							-		MADE GROUND: Ve	ery soft brown	ish grey SILT wit	h rubble.			
	504						-								
50	ES1					3.78	0.60	***	Soft greyish brown	slightly sandy	gravelly SILT. Sar	nd is fine to c	oarse.		0.
							-	* * * * * * * * * * * * * * * * * * *	Gravel is subangula	r fine to medi	um.				
00	ES2					3.38	1.00	° ° 0	Brown sandy angula cobble content. Sar						1.
							E	9 9	subrounded.	id is fille to co	iasie. Cobbles ai	e subangulai	10		
							-	° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °							1.
							-	9 9							
00	ES3						-	9 9 9							2.
							-	9 9							
							[0 0							2.
							-	° ° ° °							2.
							-	° ° ° °							
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							-	9 9 9							6.
							-	a ' a ' a							
							-								7.
						-2.82	7.20			End of Bore	ehole at 7.20m				
			,							3					
ck at (m) (Water S	Strikes Time (min) Rose to	(m) From	Chis	elling To (m	Details	e (hh:mm)	Remarks							
on at (III)	casing to (III)	(ilili) Rose to	, 110111	\''' <i>I</i>	11) 01	', '""	()	DTB 3.50r	11						
Casing I	Details Diameter	Water Added From (m) To (m)												
7.20	200	10 (11)	<i>'</i>												
								Terminat	tion Reason				Last Update		
								Terminate	ed on refusal.				28/06/2022	A	
															_

.00		Plant Used Dando 3000 Field Records	Top (m) 0.00	10.0	OO 2	4760	9.16 E 7.70 N Depth (m)	××× co		End Date: Descriptly grandy slightly grandy		SF #	Sheet 1 Scale: 1 FINA Backfill	:40 .L
(m) .50	ES1 ES2	Field Records		Casing Depth (m)	Water Depth (m) n	evel nOD	Depth (m)	X X X X So X X X Co X X X An	oarse. Gravel is sub	ndy slightly gra	velly clayey SILT	ine to	Backfill	
00	ES2						- - - -	XXXX So co an	oarse. Gravel is sub					
						1.58	6.00	X X X X Sa	rm to stiff light gre and is fine to coars i schist.					1.0 1.5 2.0 3.0 4.0 4.5 5.0 6.5
1	Water S				elling D			Remarks				I		
Casing De	etails	Water Added From (m) To (m)	n) From (m)	To (m)	Time	e (hh:mm)	DTB 1.80m	a Poscon			lank Und	ord J	
								Terminated at	1 Reason t scheduled depth			28/06/202		ᆜ

Solution	20						Proj	ect No.	Project I	Name: Mobuoy	Remediation	on Project Ph	ase 2		В	orehole I	ID
Method Plant Used Top (m) Sase (m) Coordinates			AUSEV	VAY			22-	-0242	Client:	DAERA/N	NIEA					ВН640	
Application Dando 3000 Da			——GEO	IECH					Client's I	Rep: Tetra Tec	ch						
August A							Cooi	rdinates	Final Dep	th: 10.00 m	Start Date:	22/03/2022	Driller:	СВ	1		
The state of the s	Cable Fel	cussion	Danuo 3000	0.00	10.								Logger:	SF	3		0
Water Strikes Water Strikes Chiselling Details Water Added (a) Market From (no.) To (m). Cosing Details Water From (no.) To (m).			Field Record	ds	Casing Depth	Water Depth			Legend		Desi	crintion			ater		
To (m) Diameter From (m) To (m)	(m)	Water	Strikes		Chis	elling	-5.58	(m)	Remarks	Sand is fine to coars of schist.	ey gravelly sar se. Gravel is su	ndy SILT with low ubangular to ang	cobble coular fine to	ontent. O coarse	Water		1.0 —
To (m) Diameter From (m) To (m)																	
To (m) Diameter From (m) To (m)	Casing	Details	Water Added														
10.00 200	To (m)	Diameter															
	10.00								-	D-						, I 	_
Termination Reason Last Updated Terminated at scheduled depth. 28/06/2022									Terminatio	on Reason							IJ

						Proj	ect No.	Project	Name: Mobuoy	Remediation	on Project Ph	ase 2		Bore	hole ID
	C	AUSEV	VAY	,			0242	Client:	DAERA/N		-			Bŀ	1641
		GEOT	ECH					Client's							
Meth	nod	Plant Used	Top (m) Bace	(m)	Coor	dinates	Chefft	nep. letta let	11		1		Char	et 1 of 2
Cable Per		Dando 3000	0.00	10.		Coor	umates	Final De	pth: 10.00 m	Start Date:	23/03/2022	Driller:	СВ		le: 1:40
							11.80 E								
				Casing	Water		22.12 N	Elevatio	n: 4.38 mOD	End Date:	23/03/2022	Logger:			NAL
Depth (m)	Sample / Tests	Field Record	s	Depth (m)	Depth (m)	Level mOD	Depth (m)	Legend	Soft dark brown SIL		cription			Water Ba	nckfill
							-		5010 dain 510 mil 512	· William	•				
50	ES1					3.88	0.50								0.5
10	LSI					3.88	0.30	X	Soft dark grey slight medium.	ly gravelly SIL	T. Gravel is subro	ounded fin	e to		0.3
						3.58	0.80	× × ×	Dark grey slightly si	Ity sandy suba	ngular to subro	unded fine	to		
00	ES2							x × ×	coarse GRAVEL. San	d is fine to co	arse.				1.0
							-	×××							
							-	××××							1.5
							-	× × ×							
							-	× × ×							
00	ES3							× × ×							2.0
						1.98	2.40	××××							
						1.50	2.40		Firm grey slightly sa Gravel is subangula				coarse.		2.5
									· ·						
							-								3.0
							-								
							-								3.5
							-								
							-								4.0
							=								
							-								
															4.5
							-								
							F								5.0
															5.5
							-								3.3
							-								6.0
							-								
							-								6.5
							-								
						-2.52	- 6.90	* * * * *	Firm 4. 1966 11 1 1			CUT C	- f ·		
							-	(Firm to stiff slightly coarse. Gravel is sub				s πne to		7.0
							-	(× × ×							
	Water	Strikes	\neg	Chis	elling	g Detail	s	Remarks							
ck at (m)		Time (min) Rose to	(m) From		To (me (hh:mm)	DTB 2.50n							
Casing I To (m)	Diameter	Water Added From (m) To (m)												
10.00	200							Terminat	ion Reason				Last Upd	ated	
			1						d at scheduled depth				28/06/20		

2						Proje	ect No.	Project	Name: Mobuoy	Remediation	on Project Ph	ase 2		В	orehole	ID
	C	AUSEV GEOT	VAY	•			0242	Client:	DAERA/I		-				BH641	
		——GEO1	ГЕСН					Client's								
Met		Plant Used	Top (m		(m)	Coor	dinates					T		S	heet 2 of	2
	rcussion	Dando 3000	0.00	_				Final De	pth: 10.00 m	Start Date:	23/03/2022	Driller:	СВ	1	Scale: 1:4	
							11.80 E 22.12 N	Elevatio	n: 4.38 mOD	End Date:	23/03/2022	Logger:	SF		FINAL	
Depth (m)	Sample / Tests	Field Record	ds	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend			cription			Water	Backfill	
		Field Record	ds	Casing Depth (m)	Water (m)			Legend	Firm to stiff slightly coarse. Gravel is sul	sandy slightly brounded to s rangular fine t	gravelly clayey S ubangular fine to	o coarse.		Water		7.5 · · · · · · · · · · · · · · · · · · ·
							-								1	13.5
							-								1	14.0 =
							-									
															1	14.5
		Ca!l.			-111	- P · · ·										_
		Strikes Time (min) Rose to Water Added			elling To (g Detail m) Tin	s ne (hh:mm)	Remarks DTB 2.50m								
o (m) 10.00	Diameter 200	From (m) To (m														
								Terminat	ion Reason				Last Up			Ī
								Terminated	d at scheduled depth	ı.			28/06/	/2022	$-\ \Lambda\ $	ĸ

		AUSEV				22	ect No.	Project Client: Client's	DAERA/N		ct Phase 2			orehole I BH642	
Met Cable Pe		Plant Used Dando 3000	0.0	(m) Bas 00 10	e (m) 0.00	2476	572.12 E 504.02 N	Final Dep		Start Date: 22/03/2 End Date: 22/03/2				neet 1 of 1 scale: 1:40 FINAL	
Depth (m)	Sample / Tests	Field Reco	rds	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend		Description		-	Water	Backfill	\neg
0.50	ES1					3.47	1.00		medium GARVEL wi	ey slightly sandy angulai th roots. Sand is fine to	coarse.				0.5 —
2.00	ES3					3.47	1.00		subangular fine to c	ey slightly sandy slightly coarse GRAVEL with low ete and plastic. Sand is fi	cobble conten			1	1.5 —
3.00	ES4													а	2.5 —
4.00	ES5						-								4.0 —
5.00	ES6						-								5.0 —
6.00	ES7					-1.03	- 5.50 - - - - - - - -	7.7 4 1 41	Brown fine to coars low cobble content.	e SAND and rounded fin	e to coarse GR	AVEL with			6.0
7.00	ES8					-2.03	- 6.50 - - - - - -			ghtly sandy slightly grave subangular fine to mediu		Sand is fine			6.5 — - - - 7.0 — -
	Water	Strikes		Chi	selling	Detai	ls	Remarks							\dashv
		Time (min) Rose to Water Addec From (m) To (ii	i	rom (m)	To (r		ime (hh:mm)	DTB 3.0m							
								Terminati	on Reason			Last Up	date	d	Ŋ
								Terminated	l at scheduled depth			28/06,	/2022	AG	iS

							Proje	ect No.	Project N	lame: Mobuoy	Remediation	n Project Ph	ase 2		R	orehole ID
	8 C	AUSI	=W	ΔΥ				0242	Client:	DAERA/N		on roject in	usc z			BH642
		— GE	ОТЕ	СН			££-1	VL7L								511072
Nash		Plant Use		op (m)	D	/m)	Caarr	dinates	Client's R	Rep: Tetra Tec	in I		1			12.62
Cable Pero		Dando 30		op (m) 0.00	10.	_		72.12 E	Final Dept	t h: 10.00 m	Start Date:	22/03/2022	Driller:	СВ		heet 2 of 2 Scale: 1:40
								04.02 N	Elevation:	4.47 mOD	End Date:	22/03/2022	Logger:	SF		FINAL
Depth (m)	Sample / Tests	Field	Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend			ription			Water	Backfill
Casing C	Casing to (m) Details Diameter	Strikes Time (min) Ro		From (Chiso		-5.53	- 10.00	Remarks DTB 3.0m	irm to stiff grey slig o coarse. Gravel is	subangular fir	ghtly gravelly sille to medium.	ty CLAY. Sa	nd is fine		7.5 8.0 8.5 9.0 9.5 10.0 11.5 12.0 12.5 13.0 14.5
10.00	200							Ĺ								- 1
									Terminatio	n Reason				Last Up	date	d 🔳
														28/06/		

		AUSEW GEOT			()	22-	ect No.	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH643
Meti Cable Per		Plant Used Dando 3000	0.00	n) Base 7.	3 0	2477	717.70 E 551.50 N	Final Depth: 7.30 m Start Date: 22/03/2022 Driller: CC Elevation: 4.41 mOD End Date: 22/03/2022 Logger: SF	Sheet 1 of 1 Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field Record	s	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description	ਬੇ Backfill ≯
0.50	ES1					3.90	- 0.50	MADE GROUND: Firm brown slightly sandy slightly gravelly clayer, SILT. Sand is fine to coarse. Gravel is subangular fine to medium. MADE GROUND: Firm dark grey slightly sandy slightly gravelly cla SILT with 1 pieces of visqueen plastic, 20cm x 10cm x 10xm, piece timber 5cm x 10cm x 5cm square cut. Sand is fine to coarse. Grav subangular fine to coarse.	vey s of
1.00	ES2								1.0
2.00	ES3					1.90	- 2.50	Firm light orangish brown slightly sandy slightly gravelly SILT with pockets of grey silt. Sand is fine to coarse. Gravel is subrounded fi	2.0 - 2.5
3.00	ES4								3.0
4.00	ES5					0.10	4.30	*	4.0 -
								fine to medium.	5.0 · 5.5
						-2.90	7.30	End of Borehole at 7.30m	7.0
Casing To (m)	Casing to (m) Details Diameter	Strikes Time (min) Rose to Water Added From (m) To (m		Chis	selling To (g Detail	me (hh:mm)	lemarks ITB 2.20m	
7.30	200							ermination Reason La	t Updated
									3/06/2022 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

	C	AUSEW	AY			22-	0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA	ВН656
		——GEOT	ECH					Client's Rep: Tetra Tech	
Metl		Plant Used	Top (m)	_		Coor	dinates	Final Depth: 10.00 m Start Date: 30/03/2022 Driller: DE	Sheet 1 of 2
Cable Pei	rcussion	Dando 2000	0.00	10	.00		71.32 E 33.80 N	Elevation: 9.61 mOD End Date: 30/03/2022 Logger: SF	Scale: 1:40 FINAL
Depth	Sample / Tests	Field Records		Casing Depth	Water Depth	Level mOD	Depth (m)	Legend Description	ë Backfill
(m) 50	ES1			(m)	(m)	IIIOD		MADE GROUND: Soft to firm brown sandy gravelly SILT with rare fragments of timber, concrete, slate and plastic. Sand is fine to coarse. Gravel is subrounded fine to medium.	S 0000 1000
00	ES2					8.41	- 1.20	MADE GROUND: Soft black mottled dark grey and brown sandy gravelly silty CLAY with pockets of sand and gravel, fragments of brick, concrete, slate and asphalt. Sand is fine to coarse. Gravel is angular to subangular fine to coarse.	
90	ES3						- - - -	2.00m to 2.90m: Black domestic waste comprise of shredded plastic, hard plastic, timber, fabric, glass and ceramics. (Putrid odour)	2.
50	ES4					6 74	3.00		2.
00	ES5					6.71	2.90	MADE GROUND: Soft brown sandy silty CLAY. Sand is fine to medium.	3.
00	ES6					5.91	- 3.70 - - - - -	MADE GROUND: Black DOMESTIC WASTE comprised of shredded plastic, hard plastic, timber, fabric, glass, concrete, brick, slate and ceramics in a sandy silty gravel matrix. Sand is fine to coarse. Gravel is angular to subangular fine to medium. 3.70m to 4.60m: Putrid odour	
00	ES7					5.01	- 4.60 - - - - -	MADE GROUND: Soft grey sandy gravelly SILT with fragments of shredded plastic, timber, concrete, slate, glass, fabric. Sand is fine to coarse. Gravel is subrounded fine to medium.	5.5
90	ES8					4.11 3.61	- 5.50 6.00	MADE GROUND: Soft grey sandy gravelly SILT. Sand is fine to coarse. Gravel is subrounded fine to medium.	5
		Water strike at 6.00m				3.01		Grey sandy subrounded fine to medium GRAVEL. Sand is fine to coarse.	6.
.00	ES9						- - - -		7.
		Strikes	, -			Details		Remarks	
uck at (m) 6.00	Casing to (m) 6.00	Time (min) Rose to (r	m) From	(m)	To (n	n) Tim	ne (hh:mm)		
Casing	Details	Water Added							
To (m) 10.00	Diameter 200	From (m) To (m)							
							}	Termination Reason Last U	pdated
								Terminated at scheduled depth. 28/06	1/2022

8						Proje	ect No.	Project	Name: Mobuoy	Remediation	on Project Ph	ase 2		В	orehole II	D
	C	AUSEV	VAY			22-	0242	Client:	DAERA/N	NIEA					BH656	
		——GEO	TECH	1				Client's								
Met	hod	Plant Used	Top (ı	m) Base		Coor	dinates				00/5-1-			S	heet 2 of 2	 2
Cable Pe	rcussion	Dando 2000	0.00	0 10.	.00	2477	71.32 E	Final De	pth: 10.00 m	Start Date:	30/03/2022	Driller:	DE	1	Scale: 1:40	
							33.80 N	Elevatio	n: 9.61 mOD	End Date:	30/03/2022	Logger:	SF		FINAL	
Depth (m)	Sample / Tests	Field Reco	rds	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend			cription			Water	Backfill	
						1.71	- - - - 7.90	* * * *	Grey sandy subrour coarse. Soft brown slightly a						7.	
00	ES10						- - - - - - - - -	* * * * * * * * * * * * * * * * * * *	is subangular to sub						8.	1.5
						-0.39	- - - - - - - - - - - - - - - - - - -	* * * * * * * * * * * * * * * * * * *		End of Bore	hole at 10.00m			-	9.	
							- - -								10.	.5
															11.	0
							-									.0
							-								11.	.5
							- - -								12.	۰ 0.
							-								12.	.5
							- - -								13.	.0
							-								13.	.5
							-								14.	.0
							-								14.	.5
							<u> </u>									
-l	Water		2 (122) -			Detail		Remarks								_
6.00	6.00	Time (min) Rose to	(m) Fro	ın (m)	To (ın) Tin	ne (hh:mm)									
	Details	Water Added														
To (m) 10.00	Diameter 200	From (m) To (m)													
								Terminat	ion Reason				Last Up	date	d	Ī
								Terminate	d at scheduled depth	ı.			28/06/	/2022	AG	ſ

	C	CAUSEW	AY ECH			ect No. 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH657
Met		Plant Used	Top (m) Ba		Coor	dinates	Final Depth: 10.00 m Start Date: 31/03/2022 Driller: DE	Sheet 1 of 2
Cable Pe	rcussion	Dando Terrier	0.00 1	0.00		41.21 E 31.50 N	Elevation: 7.76 mOD End Date: 31/03/2022 Logger: SF	Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field Records	Casi Dep (m	ng Water th Depth (m)	Level mOD	Depth (m)	Legend Description	Backfill
0.50	ES1 ES2				5.86	1.90	MADE GROUND: Dense grey sandy silty subrounded fine to medium GRAVEL. Sand is fine to coarse. MADE GROUND: Soft dark brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to rounded fine to coarse.	0.5
.00	ES4	Water strike at 3.90m			3.86	- 3.90	Brown slightly silty very sandy subrounded to rounded fine to coarse GRAVEL with low cobble content. Sand is fine to coarse. Cobbles are	3.5
5.00	ES6						subrounded	5.0 - 5.5 6.0 - 6.5
						-		
3.90		Nater Added From (m) To		To (g Details	s ne (hh:mm)	Remarks	
10.00	200	, , , , , , , , , , , , , , , , , , , ,					Township Decem	-t-d
							Termination Reason Last Upd	ن ا
							Terminated at scheduled depth 28/06/20	JZZ AG

		ALICEV	1/AV				ect No.		Name: Mobuoy		n Project Ph	ase 2			orehole II	
3		AUSEV	TECH			22-	0242	Client:	DAERA/N						BH657	
								Client's	Rep: Tetra Ted	ch T						_
Meth able Per	nod rcussion	Plant Used Dando Terrier	Top (m)	10.			dinates 41.21 E	Final De	pth: 10.00 m	Start Date:	31/03/2022	Driller:	DE		heet 2 of 2 Scale: 1:40	
							31.50 N	Elevatio	n: 7.76 mOD	End Date:	31/03/2022	Logger:	SF		FINAL	
Depth (m)	Sample / Tests	Field Recor	rds	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend			ription			Water	Backfill	
						0.05	- 7.70	4 × 0	Brown slightly silty of GRAVEL with low consubrounded	obble content.	Sand is fine to o	oarse. Cob	bles are		7.	7.5
						0.06	7.70	X X X X X X X X X X X X X X X X X X X	Soft light brown sar subrounded fine to		T. Sand is fine to	o coarse. G	ravel is			3.0 -
							-								9.	9.0 -
						-2.24	- - - 10.00	*		End of Boreh	nole at 10.00m					9.5 0.0 -
															10.	0.5
							-								11.	1.0
							-								11.	1.5
							-									2.0
							-									3.0
							-								13.	1.5
															14.	1.0
															14.	1.5
		Strikes				g Detail		Remarks								_
k at (m) .90	Casing to (m) 3.90	Time (min) Rose to	o (m) From	(m)	To (m) Tir	me (hh:mm)									
(m)	Details Diameter	Water Added														
0.00	200						-	Terminat	ion Reason			1	Last Up	date	d 🔳 i	_
									d at scheduled depth	ı			28/06/			ġ

A 59 2 50 Water Strike at 2,20 in Sale 1		9	GEOT	ЕСН				ect No. - 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole II BH658
Dough Samura Paint Records					_		Coor	rdinates	Final Depth: 10.00 m Start Date: 29/03/2022 Driller: DE	Sheet 1 of 2
The second control of the second control of									Elevation: 7.39 mOD End Date: 29/03/2022 Logger: SF	FINAL
fine to coarse GRAVE, with high cobble content and fragments of bitmac, plastic, fabrir, red brick and slate. Sund is fine to coarse. 4.89 2.50 MADE GROUND: Graych brown elity sandy angular to subangular fine to coarse GRAVE, with high cobble content and fragments of plastic brings, concert, marrial and fabric (downward), sand is fine to coarse GRAVE, with high cobble content and fragments of plastic brings, concert, marrial and fabric (downward), sand is fine to coarse. 3.49 3.90 MADE GROUND: Graych brown elity sandy angular to subangular fine to coarse GRAVE, with high cobble content and fragments of plastic brings, concert, marrial and fabric (downward), sand is fine to coarse. Cookies are subangular to concert easily subangular to concert. 3.49 3.90 MADE GROUND: Dark graych black sandy subangular to subbrounded GRAVEL with are fragments of plastic and fabric. Sand is fine to coarse. 5.61 gray with straintines of dark gray/black slightly gravely sandy organic SLT. and is fine to coarse. 5.62 Soft gray with straintines of dark gray/black slightly gravely sandy organic SLT. and is fine to coarse. 5.63 gray with straintines of dark gray/black slightly gravely sandy organic SLT. and is fine to coarse. 5.64 Soft gray with straintines of dark gray/black slightly gravely sandy organic SLT. and is fine to coarse. 5.65 Soft gray with straintines of dark gray/black slightly gravely sandy organic SLT. and is fine to coarse. 5.66 gray with straintines of dark gray/black slightly gravely sandy organic SLT. and is fine to coarse. 5.67 Soft gray with straintines of dark gray/black slightly gravely sandy organic SLT. and is fine to coarse. 5.68 gray with straintines of dark gray/black slightly gravely sandy organic SLT. and is fine to coarse. 5.69 gray with straintines of dark gray/black slightly gravely sandy organic SLT. and is fine to coarse. 5.60 gray gray ship subtraintines of dark gray black sandy subtraintines of dark gray black sandy subtraintines of dark gray black sandy subtraintines of dark gray b			Field Records		Depth	Depth			Legend Description	Backfill
Water strike at 2.20m 4.89 2.50 MADE GROUND: Greyith brown silty analy angular to subangular fine to coarse GRAVEL with high cobine metal and fragments of plastic in hage, concrete, metal and fisher (down-site waste), sand is fine to coarse. Cobbies are subangular to concrete 3.49 3.90 MADE GROUND: Dark greyish black sandy subangular to subrounded GRAVEL with rare fragments of plastic and fabric. Sand is fine to coarse. Soft grey with striations of dark grey/black slightly gravelly sandy organic SIT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Soft grey with striations of dark grey/black slightly gravelly sandy organic SIT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Soft grey with striations of dark grey/black slightly gravelly sandy organic SIT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Soft grey with striations of dark grey/black slightly gravelly sandy organic SIT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Soft grey with striations of dark grey/black slightly gravelly sandy organic SIT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Soft grey with striations of dark grey/black slightly gravelly sandy organic SIT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel	.50								fine to coarse GRAVEL with high cobble content and fragments of	0.5
MALE GROUND: Dark yrely sharty and group to subangular fine to coarse GRAVEL with high cobble content and fragments of plastic bin bags, concrete, metal and fabric (domestic wasse) sand is fine to coarse. Cobbles are subangular to concrete MADE GROUND: Dark greyish black sandy subangular to subrounded GRAVEL with rare fragments of plastic and fabric. Sand is fine to coarse. Soft grey with striations of dark grey/black slightly gravelly sandy organic SILT. Sand is fine to coarse. Soft grey with striations of dark grey/black slightly gravelly sandy organic SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Soft grey sandy subrounded fine to coarse. GRAVEL. Sand is fine to coarse. Dark grey sandy subrounded fine to coarse GRAVEL. Sand is fine to coarse. Casing Details Water Added (m) Diameter From (m) To (m) To (m) Diameter From (m) To (m) To (m)	.00	ES3	Water strike at 2.20m					- - - - - -		2.0
MADE GROUND: Dark greysh black sandy subangular to subrounded GRAVEL with rare fragments of plastic and fabric. Sand is fine to coarse. 1.99	.00	ES4					4.89	2.50	fine to coarse GRAVEL with high cobble content and fragments of plastic bin bags, concrete, metal and fabric (domestic waste). sand is	3.0
1.99 5.40 Soft grey with striations of dark grey/black slightly gravelly sandy organic SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Dark grey sandy subrounded fine to coarse GRAVEL. Sand is fine to coarse GRAVEL. Sand is fine to coarse. Dark grey sandy subrounded fine to coarse GRAVEL. Sand is fine to coarse. Personance of the coarse of t	.00	ES5					3.49	3.90	GRAVEL with rare fragments of plastic and fabric. Sand is fine to	4.4
1.09 6.30 1.09 6.30 2.00 5.	.00	ES6					1.00	-		5.0
1.09 6.30 Section 1.09 6.30 Section 1.09 6.30 Section 1.09 6.30 Section 1.09 6.30 Section 1.09 6.30 Section 1.09 6.30 Section 1.09 6.30 Section 1.09 6.30 Section 1.09 6.30 Section 1.09 Section 1.							1.99	- 5.40	organic SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.	5
Casing Details Water Added 50 (m) Diameter From (m) To (m) Time (hh::mm)	40	ES7					1.09	6.30	Dark grey sandy subrounded fine to coarse GRAVEL. Sand is fine to	6.5
Casing Details Water Added 50 (m) Diameter From (m) To (m) Time (hh::mm)		Mate	r Strikes		Chir	olling	Detail	ls T	Romarks	
10.00 200	2.20 Casing	Casing to (m 2.20 Details) Time (min) Rose to (r	m) From					neilidi kə	
Termination Reason Last Updated	To (m) 10.00		From (m) To (m)	\dashv						
Terminated at scheduled depth. 28/06/2022										

					Proi	ect No.	Project Name: Mohuo	/ Remediation Project Pha	ase 2	Bo	rehole ID
	A) C	AUSEV	VAY			0242	Client: DAERA/		336 2		BH658
		AUSEV GEOT	ТЕСН			y= 7 £				'	555
Metl		Plant Used		Base (m)	Coor	dinates	Client's Rep: Tetra Te			CL	neet 2 of 2
Cable Per		Dando 2000	0.00	10.00			Final Depth: 10.00 m	Start Date: 29/03/2022	Driller: DE		cale: 1:40
						29.84 E 52.91 N	Elevation: 7.39 mOD	End Date: 29/03/2022	Logger: SF		FINAL
Depth (m)	Sample / Tests	Field Recor	ds	Casing Water Depth Depth (m) (m)	Level mOD	Depth (m)	Legend	Description		Water	Backfill
					-0.11	- - 7.50	coarse	brounded fine to coarse GRAVE			7.5
					-2.11	- 9.50	Soft grey with stria organic SILT. Sand is subrounded fine to	tions of dark grey and black sligs fine to coarse. Gravel is subart to coarse. Tular to subrounded fine to coalse. End of Borehole at 10.00m	ngular to		11.5
											-
	Water	Strikes		Chisellin	g Detail	s	Remarks				
Casing To (m)	Casing to (m)	Time (min) Rose to Water Added From (m) To (n	o (m) From (i			ne (hh:mm)					
10.00	200	, , , , , , , , , , , , , , , , , , , ,					Tormination Posses		100411	ndata	·
							Termination Reason		Last U		
							Terminated at scheduled dept	h.	28/06	5/2022	WAUS

Meti		AUSEV GEO		Y H (m) Ba	asa (m	22-	0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	BH659 Sheet 1 of 3
Cable Per		Dando 3000	0.0	00	16.00	2478	44.37 E 53.18 N	Final Depth: 16.00 m Start Date: 31/03/2022 Driller: CC Elevation: 18.30 mOD End Date: 01/04/2022 Logger: SF	Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field Reco	rds	Ca: De (I	pth Depth n) (m)	Level mOD	Depth (m)	Legend Description	Backfill
0.50	ES1						- - - - - - - - - -	MADE GROUND: Soft brownish grey slightly sandy slightly gravelly CLAY with low cobble and boulder content and fragments of plastic bags, springs, rags, aluminum, paper, red brick, glass bottles and wire. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles and boulders are subangular to subrounded.	
2.00	ES3					16.10	2.20	MADE GROUND: Dark greyish black sandy very clayey fine to coarse GRAVEL with low cobble and boulder content and fragments of plastic bags, sheets, wire springs, tin cans, aluminium. Sand is fine t	
3.00	ES4						- - - - - - -	plastic bags, sheets, whe springs, thi cans, auminium. Sand is line to coarse. 2.2m to 7.7m: Black oily staining and strong hydrocarbon odour	3.0
1.00	ES5						- - - - - - -		4.0
5.00	ES6						-		5.0
5.00	ES7						- - - - - - - -		6.0
7.00	ES8						-		7.0
	Water		,) .			g Detail		Remarks	
Casing To (m)	Details Diameter	Water Addec	i m)	iom (m)	IO IO	(m) Tin	ne (hh:mm)		
12.00 16.00	200 150	12.00 16.0	טט					Termination Reason Last	Updated
								Terminated at scheduled depth 28/	06/2022 AG

	C	AUSEW GEOT	/AY ECH		-	ect No. 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH659
Meth Cable Per		Plant Used Dando 3000	Top (m) B	ase (m) 16.00	Coor	dinates	Final Depth: 16.00 m Start Date: 31/03/2022 Driller: CC	Sheet 2 of 3
cable i ci	icussion	Dunido 3000	0.00	10.00		44.37 E 53.18 N	Elevation: 18.30 mOD End Date: 01/04/2022 Logger: SF	Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field Records	De	sing Water epth Depth m) (m)	Level mOD	Depth (m)	Legend Description	Backfill
3.00	ES9				10.60	- 7.70	MADE GROUND: Dark greyish black sandy very clayey fine to coarse GRAVEL with low cobble and boulder content and fragments of plastic bags, sheets, wire springs, tin cans, aluminium. Sand is fine to coarse. MADE GROUND: Black sandy clayey subangular fine to coarse GRAVEL with low cobble and boulder content with plastic bags, rubber, tile, fragments of wood, crisp packets (dated january 1998), wire and glass bottled. Sand is fine to coarse. Cobbles are subangular. 7.7m to 10.5m: Viscous black hydrocarbon liquid with strong hydrocarbon odour.	7.5
9.00	ES10					-		9.0
10.00	ES11				7.80	10.50	MADE GROUND: Soft greyish black mottled brown slightly sandy slightly gravelly CLAY with low cobble and boulder content,	10.5
11.00	E512					-	fragments of wood, tile, metal wire, tin cans, plastic sheeting. 10.5m to 13.1m. Strong hydrocarbon odour	11.6
12.00	ES13					-		12.0
13.00	ES14				5.20	13.10	Brown silty fine to medium SAND	13.0
14.00	ES15					- - - - -		14.5
	Water S				g Details		Remarks	
ruck at (m)	Casing to (m)	Time (min) Rose to (m) From (m) To (m) Tim	ne (hh:mm)		
Casing I	Details Diameter	Water Added From (m) To (m)						
12.00 16.00	200 150	12.00 16.00					Termination Reason Last Up	dated ==
							Terminated at scheduled depth 28/06/	

Method le Percussion epth Sample / Tests	Plant Used Dando 3000 Field Records	Top (m) B	Casing Depth (m)	24784	dinates 44.37 E 53.18 N Depth	Client's Rep: Tetra Tech Final Depth: 16.00 m Start Date: 31/03/2022 Driller: Elevation: 18.30 mOD End Date: 01/04/2022 Logger:	Scale: 1:40
le Percussion	Dando 3000	0.00	16.00	24784 41795 Level	44.37 E 53.18 N		Scale: 1:40
	Field Records	; ,	Casing Water Depth Depth (m) (m)	41795 Level	53.18 N	Elevation: 18.30 mOD End Date: 01/04/2022 Logger:	FINAL
	Field Records	i c	Casing Water Depth Depth (m) (m)		Depth		
				2.30	- 16.00	End of Borehole at 16.00m	Section
					- - -		
Water Sti	rikes		Chisellin	g Detail	s T	Remarks	

	8	CAUSEW	AY			ect No. ·0242	Project Client:	Name: Mobuoy Remediation Project Phase 2 DAERA/NIEA	В	orehole I BH660
	- -	——GEOTE					Client's	Rep: Tetra Tech		
Met	hod	Plant Used	Top (m) B	ase (m)	Coor	dinates			9	Sheet 1 of 2
Cable Pe	rcussion	Dando 3000	0.00	9.50		65.10 E 36.12 N	Final De			Scale: 1:40
Depth	Sample /	Field Records	Ca	ising Water	Level	Depth	Legend	Description	Water	Backfill
(m) .50	ES1			m) (m)	mOD 16.98	(m) - 0.50		MADE GROUND: Soft brown mottled grey slightly sandy slightly gravelly CLAY with low cobble and boulder content and fragments o wood, yellow plastic tape, rubber and aluminum. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. MADE GROUND: Soft grey sandy gravelly CLAY with low cobble and boulder content and fragments of wood, yellow plastic tape, sweet		0
.00	ES2				16.48	1.00		wrappers, glass of lipstick casing. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. MADE GROUND: Soft grey mottled dark grey slightly sandy gravelly CLAY with fragments of glass bottles, metal spoons, plastic bags, wood, metal cans and sweet wrappers. Sand is fine to coarse, Grave is subangular to subrounded fine to coarse.	I	1
.00	ES3	Small seepage at 2.00m	1		15.48	- 2.00		MADE GROUND: Soft dark greyish black slightly sandy slightly gravelly CLAY with plastic bags and sheeting, garden waste, paper, occasional tiles, wire, glass, fragments of concrete, metal (tins, cutlery, cans) and rubber flooring. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. 2.00m to 7.00m: Hydrocarbon odour and presence of tar had stained most materials dark greyish black	*	2
.00	ES4									3
.00	ES5					-				4
.00	ES6									5
5.00	ES7									6
'.00	ES8				10.48	7.00		MADE GROUND: Soft dark greyish black slightly sandy slightly gravelly CLAY with fragments of wood, concrete, red brick, plastic crisp wrappers, bags of tin with clumps bitmac (100mm). Sand is fin to coarse. Gravel is subangular to subrounded fine to coarse.	e	7
		r Strikes		hiselling			Remarks			
ruck at (m) 2.00	Casing to (m 2.00	n) Time (min) Rose to (m 20 1.95	9.50) To (9.7		me (hh:mm) 01:15				
	Details	Water Added								
To (m) 9.50	Diameter 200	From (m) To (m)	\dashv							
							Terminat	ion Reason Last	Update	ed
							Termiante	d on refusal 28/	06/2022	AC

	C	AUSEW GEOT	ECH		22-0	ct No. 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole IC BH660
Met Cable Pe		Plant Used Dando 3000	0.00 Ba	se (m) 9.50	24786	55.10 E	Final Depth: 9.50 m Start Date: 29/03/2022 Driller: CC	Sheet 2 of 2 Scale: 1:40
Depth	Sample /		Ca	ing Water	41793	36.12 N	Elevation: 17.48 mOD End Date: 29/03/2022 Logger: SF	FINAL
(m)	ES9	Field Record	5 De (t	ing Water, the Depth Depth Depth (m)	mOD	(m)	Legend MADE GROUND: Soft dark greyish black slightly sandy slightly gravelly CLAY with fragments of wood, concrete, red brick, plastic crisp wrappers, bags of tin with clumps bitmac (100mm). Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.	Backfill 7.5
.00	ES10				0.20	- 0.30		9.0
					8.28	9.20	Pushing BOULDER	
								10.5 11.5 12.6 13.6 14.6
						-		
2.00	Casing to (m) 2.00 Details Diameter 200	Time (min) Rose to (20 1.95	(m) From (m) 9.50			e (hh:mm) 01:15	Remarks	
							Termination Reason Last Up	
							Termianted on refusal 28/06,	²⁰²²

	C	AUSEW GEOTI	AY ECH			Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech Ordinates			Borehole II BH660A			
Method	ı	Plant Used	Top (m)	Base (m)	Coor	dinates				Duill 00		Sheet 1 of 3
ble Percus	ssion	Dando 3000	0.00	16.00	2478	61.35 E	Final Dep	otn: 16.00 m	Start Date: 30/03/2022	Driller: CC		Scale: 1:40
						38.71 N	Elevation	17.74 mOD	End Date: 04/04/2022	Logger: SF		FINAL
Depth (m)	Sample / Tests	Field Records		Casing Water Depth Depth (m) (m)	Level mOD	Depth (m)	Legend		Description ft brownish grey slightly sandy		Water	Backfill
		Small seepage at 2.00n	n		15.74	2.00		MADE GROUND: So: gravelly CLAY. Comp paper and occasions metal cans, rubber Is subangular to subongular to subongu	ft dark greyish black slightly sa bunded fine to coarse bunded fine to coarse. If dark greyish black slightly sa bunded fine to coarse at tiles, wire, glass and fragme basket ball. Sand is fine to coarse. Then odour and presence of tar has staine to coarse.	ndy slightly g, garden refus nts of concrete rse. Gravel is	æ,	2.5 2.5 3.0 4.0 4.5 5.0 6.0 6.0
		Strikes Time (min) Rose to (n		Chiselling		s ne (hh:mm)	Remarks					
.00	2.00	20 1.97	,,	, 10(.,						
.00	ameter 200 150	Water Added From (m) To (m) 11.00 16.00					Terminati	on Reason		La	st Updat	ed 🔳 🔹
							Terminated				28/06/202	

	C	AUSEW	AY	,		oject No. 2-0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH660A
Meth		Plant Used) Base (n	_	ordinates	Final Depth: 16.00 m Start Date: 30/03/2022 Driller: CC	Sheet 2 of 3
Cable Per	rcussion	Dando 3000	0.00	16.00	247	7861.35 E 7938.71 N	Elevation: 17.74 mOD End Date: 04/04/2022 Logger: SF	Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field Records		Casing Wat Depth Dep (m) (m	th		Legend Description	ਚ Backfill ≥
							MADE GROUND: Soft dark greyish black slightly sandy slightly gravelly CLAY. Comprising plastic bags and sheeting, garden refuse, paper and occasional tiles, wire, glass and fragments of concrete, metal cans, rubber basket ball. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.	7.5 8.0 -
.00	ES1				8.74	4 - 9.00	MADE GROUND: Black clayey sandy subangular fine to coarse GRAVEL with plastic bags, rope and fragments of metal pipe 9.00m to 10.80m. Strong hydrocarbon odour, all materials submerged in a viscous black liquid. Mild solvent odour, possible acetone - nall varnish/thinners	9.0 -
0.00	ES2				6.94	4 - 10.80	Greyish black silty gravelly fine to coarse SAND. Gravel is subrounded fine to coarse. Gravel is subrounded fine to coarse. 10.80m to 12.40m: Strong hydrocarbon odour and oily sheen	10.5
								11.5
					5.34	4 12.40	Greyish brown slightly silty fine to medium SAND. 12.40m to 16.00m: Mild hydrocerbon adour	12.5
						-		14.5
uck at /m\		Strikes Time (min) Rose to (r	m) Erom		ing Deta	ails Time (hh:mm)	Remarks	
2.00 Casing To (m) 12.00	2.00	20 1.97 Water Added	n) From	1 (111)	o (m)	ime (nn:mm)		
16.00	150	11.00 10.00					Termination Reason Last Upd	ated 📕
							Terminated at scheduled depth 28/06/2)22 AG

		AUSE — GE			_			0242	Client:	DAERA/î Rep: Tetra Tec					ВН660А
Method able Percu		Plant Use Dando 30		0.00	Base 16.		24786	61.35 E 38.71 N	Final Dep			30/03/2022	Driller:		Sheet 3 of 3 Scale: 1:40
Depth	Sample /				Casing	Water	Level	Depth	Elevation	: 17.74 MOD	ļ	04/04/2022	Logger:		FINAL
(m)	Water Sing to (m) 2.00		1.97	From (Chiso	elling To (r	nOD 1.74	(m)	Remarks	Greyish brown sligh	atly silty fine to	p medium SAND			
	iameter 200	From (m)	To (m) 16.00												
	150			I			1		Termination	on Reason				Last Upda	ated 🔳

A A A A A A A A A A	hole ID 1661			se 2	Phas	on Project I	NIEA		Project Client:	ect No. 0242			Y	V A	EV	AUS	C	
### Proof Records Sample Proof Records	t 1 of 2	Sheet	DE	Driller:	22	28/03/202	Start Date:	onth: 10.00 m	Final De	dinates	Coor							
MAGE CROUND: Gray to long many angular free to subangular free to care cRANCL to check center in a frequency of concete, plants, red brish, represent of the care. Catables are angular. 5.81 1.20 5.81 1.20 5.81 1.20 5.81 1.20 MAGE CROUND: Say the vice obtained free to care. Catables are angular. 5.81 1.20 MAGE CROUND: Say the previous free to care. Catables are angular. 5.81 1.20 MAGE CROUND: Say the previous free to care. Catables are angular. 5.81 1.20 MAGE CROUND: Light grey andly gravelly SLT with our fragments of plants and metal. Sand is fine to coarse. 6.84 MAGE CROUND: Light grey and sprayed brown sandy subangular to rounded fine to coarse. 7.84 1.20 MAGE CROUND: Light grey and brown sandy subangular to rounded fine to coarse. 8.85 MAGE CROUND: Strip grey and brown sandy subangular to rounded in the coarse. 9.85 MAGE CROUND: Light grey and brown sandy subangular to rounded fine to coarse. 9.85 MAGE CROUND: Light grey and brown sandy subangular to rounded fine to coarse. 9.85 MAGE CROUND: Light grey and brown sandy subangular to rounded fine to coarse. 9.85 MAGE CROUND: Light grey and brown sandy subangular to rounded fine to coarse. 9.85 MAGE CROUND: Light grey and brown sandy subangular to rounded fine to coarse. 9.85 MAGE CROUND: Light grey and brown sandy subangular to rounded fine to coarse. 9.85 MAGE CROUND: Light grey and brown sandy subangular to rounded fine to coarse. 9.85 MAGE CROUND: Light grey sandy organic SILT sand is fine to coarse. 9.85 MAGE CROUND: Light grey sandy organic SILT sand is fine to coarse. 9.85 MAGE CROUND: Light grey sandy organic SILT sand is fine to coarse. 9.85 MAGE CROUND: Light grey sandy organic SILT sand is fine to coarse. 9.85 MAGE CROUND: Light grey sandy organic SILT sand is fine to coarse. 9.85 MAGE CROUND: Light grey sandy organic SILT sand is fine to coarse. 9.85 MAGE CROUND: Light grey sandy organic SILT sand is fine to coarse. 9.85 MAGE CROUND: Ligh	e: 1:40 NAL							·				.00	00 10	C	2000	Dando	rcussion	Cable Pe
MAGE CROUND: Gray to long many angular free to subangular free to care cRANCL to check center in a frequency of concete, plants, red brish, represent of the care. Catables are angular. 5.81 1.20 5.81 1.20 5.81 1.20 5.81 1.20 MAGE CROUND: Say the vice obtained free to care. Catables are angular. 5.81 1.20 MAGE CROUND: Say the previous free to care. Catables are angular. 5.81 1.20 MAGE CROUND: Say the previous free to care. Catables are angular. 5.81 1.20 MAGE CROUND: Light grey andly gravelly SLT with our fragments of plants and metal. Sand is fine to coarse. 6.84 MAGE CROUND: Light grey and sprayed brown sandy subangular to rounded fine to coarse. 7.84 1.20 MAGE CROUND: Light grey and brown sandy subangular to rounded fine to coarse. 8.85 MAGE CROUND: Strip grey and brown sandy subangular to rounded in the coarse. 9.85 MAGE CROUND: Light grey and brown sandy subangular to rounded fine to coarse. 9.85 MAGE CROUND: Light grey and brown sandy subangular to rounded fine to coarse. 9.85 MAGE CROUND: Light grey and brown sandy subangular to rounded fine to coarse. 9.85 MAGE CROUND: Light grey and brown sandy subangular to rounded fine to coarse. 9.85 MAGE CROUND: Light grey and brown sandy subangular to rounded fine to coarse. 9.85 MAGE CROUND: Light grey and brown sandy subangular to rounded fine to coarse. 9.85 MAGE CROUND: Light grey and brown sandy subangular to rounded fine to coarse. 9.85 MAGE CROUND: Light grey sandy organic SILT sand is fine to coarse. 9.85 MAGE CROUND: Light grey sandy organic SILT sand is fine to coarse. 9.85 MAGE CROUND: Light grey sandy organic SILT sand is fine to coarse. 9.85 MAGE CROUND: Light grey sandy organic SILT sand is fine to coarse. 9.85 MAGE CROUND: Light grey sandy organic SILT sand is fine to coarse. 9.85 MAGE CROUND: Light grey sandy organic SILT sand is fine to coarse. 9.85 MAGE CROUND: Light grey sandy organic SILT sand is fine to coarse. 9.85 MAGE CROUND: Ligh	:kfill	Nater Bac				ription	Desc	'	Legend			Depth	Depth	rds	eld Reco	Fie		
00 ESS MADE GROUND: Light greyish brown sandy subangular to rounded GROVE with occasional pockets of slightly sandy organic sitt. Sand is fine to coarse. 2.41	0.5		ne to crete, oles are	ents of co arse. Cob	ragme to coa	ontent and fr Sand is fine t gravelly SILT v	n low cobble cope and fabric. oft grey sandy gand is fine to co	coarse GRAVEL with plastic, red brick, re angular. MADE GROUND: Se plastic and metal. S		1.20	5.81							0.50 1.00
MADE GROUND: Light greyish brown sandy subangular to rounded GRAVEL with occasional pockets of slightly sandy organic silt. Sand is fine to coarse. 2.41 4.60 2.41 5. Me, 34 6.30 7. Me, 34 7.	2.0									- - - - - - - - -							ES3	2.00
MALE ENCOUND. Light greys brown sandy subangular to rounded GRAVUND. Light greys brown sandy subangular to rounded GRAVUND. Light greys brown sandy subangular to rounded GRAVUND. Light greys sandy organic silt. Sand is fine to coarse. 2.41	3.0										2 11						ES4	3.00
O.71	4.0	lic.						GRAVEL with occasi		- - - -								
Water Strikes Chiselling Details From (m) Time (min) Rose to (m) From (m) To (m) Time (hh:mm) Casing Details Water Added To (m) Diameter From (m) To (m) To (m) 10.00 200 To (m) To (m) To (m) To (m) To (m) Diameter From (m) To (m) To (m) To (m) Diameter From (m) To (m) To (m) To (m) Diameter From (m) To (m) To (m) To (m) Diameter From (m) To (m) To (m) Diameter To (m) To (m) To (m) Diameter To (m) To (m) To (m) Diameter To (m) To (m) To (m) Diameter To (m) To (m) To (m) Diameter To (m) To (m) To (m) Diameter To (m) To (m) To (m) Diameter To (m) To (m) To (m) Diameter To (m) To (m) To (m) Diameter To (m) To (m) To (m) Diameter To (m) To (m) To (m) Diameter To (m) To (m) To (m) Diameter To (m) To (m) To (m) Diameter To (m) To (m) To (m)	5.0						PEAT	Soft brown fibrous	a alle alle alle alle alle alle alle al	- 4.60	2.41						ES5	5.00
Casing Details Water Added To (m) Diameter From (m) To (m) 10.00 200 To (m) To (m)	6.5			irse.	to coa	Sand is fine t	y organic SILT. !	Soft light grey sand	× × × × × × × × × × × × × × × × × × ×	- 6.30 	0.71							
Casing Details Water Added To (m) Diameter From (m) To (m) 10.00 200 To (m)								<u> </u>	Remarks				1					
10.00 200										ne (hh:mm)	m) Tii	To (ı	om (m)	I	Added	Water	Details	
IDEMINISHIN ROSEN		datad	Lact Hard					tion Posser	Torm:									
Terminated at scheduled depth. 28/06/2022																		

Cable Percussion Danda 2000 0.00 10.00							Proi	ect No.	Project	Name: Mohuov	Remediation Project Ph	ase 2	B	orehole ID
Method Plant Used Top (m) Base (m) Coordinates Cable Percussion Dando 2000 0.00 10.00 2.47870.58 E 417999.15 N Elevation: 7.01 mod End Date: 28/03/2022 Logger: SF FINAL Logger 1.49 Region Security 1.49 Region 1.49 Regio		8	ΔUSEV	V ΔΥ										
Method Plant Used Top (m) Base (m) Coordinates Cable Percussion Dando 2000 0.00 10.00 247870.58 E 417898.15 N Elevation: 7.01 m/D End Date: 28/03/2022 Logger: SF FINAL Logger SF Final Records Security 1.139 8.20 Security 1.139 8.20 Brown sandy subrounded fine to coarse GRAVEL. Sand is fine to coarse. Security		——GEO	ТЕСН				02-72						Dilooi	
Cable Percussion Dando 2000 0.00 10.00 24/870.58 & 417598.15 N Elevation: 7.01 mOb End Date: 28/93/2022 Logger: SF FINAL	Met					(m)	Coor	dinates	Client	вкер: тетта тес	:n 	1		hoot 2 of 2
At 7538.15 No. Elevation: 7.01 mOD End Date: 28/03/2022 Logger: SF FINAL					_				Final De	pth: 10.00 m	Start Date: 28/03/2022	Driller: DE	=	
-0.39 7,40 Sent light grey sundy organic SLIT. Sand fine to coarse. -1.19 8.20 Brown sandy subrounded fine to coarse GRAVEL. Sand is fine to coarse. -2.99 -10.00 End of Borehole at 10.00m									Elevatio	n: 7.01 mOD	End Date: 28/03/2022	Logger: SF		
-2.99 - 10.00 Brown sandy subtrounded fine to coarse GRAVEL Sand is fine to Coarse. Brown sandy subtrounded fine to coarse GRAVEL Sand is fine to Coarse. Castrollar Sand Sand Sand Sand Sand Sand Sand Sand	Depth (m)		Field Recor	ds	Casing Depth (m)	Water Depth (m)	Level mOD		Legend		Description		Nater	Backfill
-2.99 - 10.00 End of Borehole at 10.00m								-	×××	Light brown silty fin fine to coarse GRAV Brown sandy subrou	e to coarse SAND and subang EL with medium cobble cont	ular to subroui ent.	nded	
10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0								-						
							-2.99	10.00			End of Borehole at 10.00m			10.0
								-						- - -
12.5														10.5 —
12.5														11.0 —
12.0								-						-
								-						11.5
12.5														-
								-						12.0 —
														-
								ŧ						12.5 —
								-						-
								-						-
								-						13.5
														-
								-						14.0 —
														-
								-						14.5 —
Water Strikes Chiselling Details Remarks Struck at (m) Casing to (m) Time (min) Rose to (m) From (m) To (m) Time (hh:mm)						elling	g Detail	s	Remarks					
	To (m) 10.00	Diameter 200	From (m) To (n	11)					.	in De		T -		
10.00 200														
10.00 200 Termination Reason Last Updated									Terminate	d at scheduled depth	l.		28/06/2022	AUS

		CAUSEW		L		22-(ct No.	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH662
Metho Dynamic Sa		Plant Used Dando Terrier	Top (m) 0.00	5.0		24746	33.18 E	Final Depth: 5.00 m Start Date: 29/03/2022 Driller: LW Elevation: 6.52 mOD End Date: 29/03/2022 Logger: SF	Sheet 1 of 1 Scale: 1:50 FINAL
Depth (m)	Sample / Tests	Field Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description	Backfill
0.50 0.70 - 1.00 1.00 1.20 1.20 - 1.65	D3 B1 D4 D7 SPT (S)	N=5 (1,1/2,1,1,1)				5.72	0.20	TOPSOIL: Dark brown slightly sandy slightly gravelly CLAY. Light brown slightly gravelly sandy CLAY. Sand is fine to coarse. G is rounded fine to coarse. Soft brownish grey gravelly silty CLAY with low cobble content. Gravel is rounded fine to coarse.	1.5 -
.00 .00 .00 - 2.45	D5 D8	N=0 (1,0/0,0,0,0)				4.22	2.30	Very soft dark grey SILT	2.5
						2.92	3.60	X X X X X X X X X X X X X X X X X X X	3.5 -
						1.52	- 5.00	alle और अपि अपिट अपिट अपिट अपि End of Borehole at 5.00m	5.0 – 5.5 · 6.0 – 6.5 · 7.0 – 7.5 ·
ruck at (m) Ca		Strikes) Time (min) Rose to (n			Diame 150	eter			9.0 – 9.0 –

		AUSEW GEOT			22-	ect No. 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole II
Meth Dynamic S		Plant Used Dando Terrier	Top (m) B	ase (m) 4.00	2475	12.96 E 51.87 N	Final Depth: 4.00 m Start Date: 29/03/2022 Driller: LW Elevation: 5.57 mOD End Date: 29/03/2022 Logger: SF	Sheet 1 of 1 Scale: 1:50 FINAL
Depth (m)	Sample / Tests	Field Records	C.	asing Water epth Depth (m) (m)	Level mOD	Depth (m)	Legend Description	ੁੱਛ ਬ Backfill ≥
0.50	ES1				5.17	0.40	MADE GROUND: Soft light brown CLAY MADE GROUND: Soft to firm dark grey silty CLAY with fragments of red brick and rubble.	0.5
2.00	ES3				4.47	1.10	Dark greenish grey slightly gravelly fine to coarse SAND. Gravel is rounded fine.	1.9
					3.17	2.40	Light brown fine SAND	2.9
					1.57	4.00	End of Borehole at 4.00m	3.9
						- - - - - -		4.3
						- - - - - -		5.3
						- - - - - -		7.0
						- - - - - -		7.5
						- - - - - -		9.0
ruck at (m)	Water :	Strikes Time (min) Rose to (ng Detail	eter	emarks		
			4.00	15	0			
					T	erminatio	on Reason Last Up	dated
							due to blowing sands. 28/06/	

247/513.87 E 47/451.38 N Elevation: 5.58 m/OD End Date: 07/04/2022 Logger: SF FINAL	CAUSE			Project 22-0	242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH663A
Sample Field Records Field						Final Depth: 3.00 m Start Date: 07/04/2022 Driller: LW	
MADE GROUNDS. Very soft brown slightly sandly thy gravelly CLAY with fragments of red brick and bitmac. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel 24 Jan. 25 Jan. 25 Jan. 26 Jan. 27 Jan. 28 Jan. 29 Jan. 20 Jan. 2			Codes Mess			Elevation: 5.58 mOD End Date: 07/04/2022 Logger: SF	
	Depth (m) Sample / Tests Field Res	cords	Casing Witter Depth Depth (n)	Level mOD 5.08	Depth (m) - 0.50	Legend Description MADE GROUND: Very soft brown slightly sandy slightly gravelly CLAY with fragments of red brick and bitmac. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse Dark green fine to coarse SAND Light brown fine to coarse SAND	

						Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH663B Sheet 1 of 1	
Method ynamic Sampling			3.00	24751		Final Depth: 3.00 m Start Date: 07/04/2022 Driller: LW	Scale: 1:50	
Depth Sample /			Casing Water	41744 Level	6.06 N Depth	Elevation: 5.70 mOD End Date: 07/04/2022 Logger: SF	FINAL	
Water S uck at (m) Casing to (m)		Cas		eter	(m)	MADE GROUND: Soft dark brown slightly sandy slightly gravelly CLAY with fragments of red brick and bitmac. Sand is fine to coarse. Grave is subangular to subrounded fine to coarse Dark green fine to coarse SAND End of Borehole at 3.00m		
						n Reason Last Use to running sands 28/0	pdated	

		CAUSEW	AY ECH			oject No. 2-0242	Project Client: Client's		NIEA	on Project Ph	ase 2		Borehol BH66	
Metho Cable Perc		Plant Used Dando 3000	Top (m) I	Base (n 6.00	1) Co	ordinates	Final De	epth: 6.00 m	Start Date:	: 28/03/2022	Driller:	СС	Sheet 1	
cable Fere	u331011	Dundo 3000	0.00	0.00		7552.26 E 7466.95 N	Elevatio	on: 5.81 mOD	End Date:	28/03/2022	Logger:	SF	Scale: 1	
Depth (m)	Sample / Tests	Field Records		Casing Wat Depth Dep (m) (m	er Leve		Legend		Des	scription	ļ		Backfill	ı
Depth (m)	ES1 ES2	Field Records		Casing beth per did not be the p	4.2	D (m)	Legend	Very soft brown mo	e SAND		andy CLAY. S		<u> </u>	1.5 1.5 2.0 2.5 3.0 4.0 4.5 5.0 6.5
ruck at (m) Ca 1.90		Strikes		Chiselli		ails Time (hh:mm)	Remarks	5						7.0
Casing D		Water Added												
To (m) [200	From (m) To (m)					Termina	tion Reason			Т	Last Upda	ted 💻	
								non Reason ed due to blowing sar				28/06/20		

		CAUSEW	AY ECH				ct No.)242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH664A
Metho		Plant Used Dando 3000	Top (m) 0.00	Base 6.0		Coord	inates	Final Depth: 6.00 m Start Date: 29/03/2022 Driller: CC	Sheet 1 of 1
ible Perc	Lussioii	Dalluo 3000	0.00	0.00			2.26 E 6.95 N	Elevation: 5.81 mOD End Date: 29/03/2022 Logger: SF	Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field Records		Casing V Depth C		Level mOD	Depth (m)	Legend Description	të Backfill
		r Strikes Time (min) Rose to (n 20 1.30		Chise		0.19 0.19	1.60	Brown very silty fine SAND End of Borehole at 6.00m	1.5
Casing D)etails	Water Added							
	Diameter 200								
									ast Updated
								erminated at scheduled depth.	^{28/06/2022} AG

	C	CAUSEM	VAY			ect No. - 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole II BH665
Meth Cable Per		Plant Used Dando 3000	Top (m) 0.00	Base (m 16.00) Coor	dinates	Final Depth: 16.00 m Start Date: 04/04/2022 Driller: 0	Sheet 1 of 3
cubic i ci		Bando 3000	0.00	10.00		53.62 E 22.43 N	Elevation: 17.21 mOD	Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field Record	s	Casing Water Depth Depth (m) (m)	Level mOD	Depth (m)	Legend Description	a Backfill S
.50	ES1				16.21	1.00	MADE GROUND: Soft greyish brown slightly sandy gravelly CLI low cobble content and fragments of metal, glass, ceramic tile rubber tyres, plastic bag, crisp wrappers, paper and pieces of Sand is fine to coarse. Gravel is subrounded fine to coarse. Co and boulders are subrounded. MADE GROUND: Soft grey mottled black slightly sandy gravell with low cobble and boulder content and fragments of glass, tile, plastic bags, polystyrene, crisp wrappers, metal pipe, garc refuse, wood and tin can. Poor recovery and pushing somethilarse infront of casing. (Possible car tyre)	y CLAY ceramic
00	ES3	Seepage at 2.00m					large infront of casing. (Possible car tyre) 1.00m to 4.00m. Strong hydrocarbon odour	2.5
00	ES4					-		3.:
00	ES5				13.21	4.00	MADE GROUND: Soft greyish black sandy gravelly CLAY with lo cobble and boulder content, fragments of glass, wood, plastic and crisp wrappers. Sand is fine to coarse. Cobbles are subrou	bags,
00	ES6					- - - - - -		5.
.00	ES7							6.
.00	ES8					- - - - -		7.
		r Strikes) Time (min) Rose to ((ma) =		ng Detail	ls me (hh:mm)	emarks	
Casing To (m)	2.00 Details Diameter	20 1.95 Water Added From (m) To (m))	in ic	(m) Tii	ille (illi.illili)		
12.00 16.00	200 150	11.00 16.00					ermination Reason	Last Updated
							erminated at scheduled depth	28/06/2022 \G

	C	AUSEV — GEOT	AY ECH			ect No. 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH665
Metho Cable Pero		Plant Used Dando 3000	Top (m) 0.00	Base (m) 16.00	Coord	dinates	Final Depth: 16.00 m Start Date: 04/04/2022 Driller: CC	Sheet 2 of 3
Cable Felc	Lussion	Dando 3000	0.00	10.00		53.62 E 22.43 N	Elevation: 17.21 mOD End Date: 05/04/2022 Logger: SF	Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field Records		Casing Water Depth Depth (m) (m)	Level mOD	Depth (m)	Legend Description	ë Backfill
9.00	ES9				8.81	- 8.40	MADE GROUND: Soft greyish black sandy gravelly CLAY with low cobble and boulder content, fragments of glass, wood, plastic bags, and crisp wrappers. Sand is fine to coarse. Cobbles are subrounded. MADE GROUND: Black clayey sandy subangular fine to coarse GRAVEL with plastic bags, rope, fragments of glass and pieces of wood. 8.4m to 11.2m: Black hydrocarbon liquid with strong hydrocarbon odour	
0.00	ES10							9.5
1.00	ES11				6.01	- 11.20	Brownish grey slightly silty fine to coarse SAND. 11.2m to 16.0m: Lenses of black staining with strong hydrocarbon odour	11.0 -
12.00	ES12							12.5
	Water S	trikes		Chiselling	netails		Remarks	
2.00 Casing D	easing to (m) 2.00	Rose to (20 1.95				6 e (hh:mm)		Updated T
			1	1			Terminated at scheduled depth 28/	

	CAUSE\ ——GEO	WAY	7			ect No. 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA	Borehole BH665
	——GEO	TECH					Client's Rep: Tetra Tech	
Method ble Percussion	Plant Used Dando 3000	Top (m	n) Base 16.		Coord	dinates	Final Depth: 16.00 m Start Date: 04/04/2022 Driller:	CC Scale: 1:4
						53.62 E 22.43 N	Elevation: 17.21 mOD End Date: 05/04/2022 Logger:	
Depth Samp		ords	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description	ä Backfill
Wa	ter Strikes (m) Time (min) Rose	to (m) Fron	Chis		1.21	(m)	End of Borehole at 16.00m End service at 16.00m	
asing Details (m) Diame .00 200		(m)						
	1					ŀ	ermination Reason	Last Updated
.00 150						l		Lust opuateu

Meti Cable Per	hod	Plant Us	EOTE sed	Top (n 0.00	n) Bas	e (m) 5.00	Coord 24782	110242 110010000000000000000000000000000	Client: Client's Final De	•		06/04/2022	Driller:	СС	BH666 Sheet 1 of 3 Scale: 1:40
	l				Carino	Water		52.59 N	Elevation	n: 18.26 mOD	End Date:	06/04/2022	Logger:		FINAL
Depth (m)	Sample / Tests	Field	d Records		Casing Depth (m)	Depth (m)	Level mOD	Depth (m)	Legend	MADE GROUND: So	Descr	·	sandy grav		Backfill
.50	ES1						17.36	- 0.90		CLAY with low cobb and wood througho subrounded fine to MADE GROUND: So low cobble and bou tile, glass, metal pip is fine to coarse. GraCobbles are subroun 0.9m to 4.0m: Strong hyd	out. Sand is fine coarse. Cobble off greyish black ilder content, fr be, wire, plastic avel is subangul nded.	s are subrounds a slightly sandy a ragments of red bags, shirt slee	gravelly CL brick, corve and wo	AY with occrete, and Sand	1.0
00	ES3							- - - - - - - -							2.0
.00	ES4							-							3.0
.00	ES5						14.26	- 4.00		MADE GROUND: So CLAY with roots (2 t concrete and plastic subrounded fine to 4.0m to 5.0m: Hydrocarbo	to 30mm thick) c. Sand is fine to coarse.	garden refuse,	fragments	of glass,	4.0
00	ES6						13.26	- 5.00 - 5.00		MADE GROUND: So slightly gravelly CLA fragments of glass, fine to coarse. Grave	Y with roots (2 tile, plastic pipe	to 50mm thick) e, rope and cris	with 170 p wrapper	mm long s. Sand is	5.0
00	ES7							-							6.0
2.00	ES8							- - - -							7.0
ough a dead	Water :		Dans to 1	۵) 5			g Details		Remarks						
Casing To (m)	Details Diameter	Water A	Added To (m)	- Fron	ii (m)	То (in) Tim	e (hh:mm)							
10.50 16.00	200 150	13.00	16.00					-	Terminati	ion Reason				Last Upda	ted 🔳
									Terminated	d at scheduled depth	1			28/06/20	22 AG

			EOTE	СН			22-	ect No. 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH666
Meth Cable Per		Plant Us Dando 30		Top (m) 0.00	16	e (m) .00	24782	24.79 E 62.59 N	Final Depth: 16.00 m Start Date: 06/04/2022 Driller: CC Elevation: 18.26 mOD End Date: 06/04/2022 Logger: SF	Sheet 2 of 3 Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field	l Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description MADE GROUND: Soft greyish black mottled grey slightly sandy	Backfill
8.00	ES9							- - - - - - - - - -	slightly gravelly CLAY with roots (2 to 50mm thick) with 170mm long fragments of glass, tile, plastic pipe, rope and crisp wrappers. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.	8.0 — 8.5 —
9.00	ES10						9.26	- - - 9.00 - - - - -	MADE GROUND: Brown slightly sandy slightly gravelly CLAY with broken ceramic tiles (2mm 150 x 100mm), plastic bags and broken glass. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. 9.0m to 10.0m: Hydrocarbon odour	9.0 -
10.00	ES11						8.26	- - 10.00 - - - - - -	MADE GROUND: Soft greyish black slightly sandy slightly gravelly CLAY with low cobble content and fragments of wood (2 to 20mm) fragments of glass, tiles, plastic, metal wire and polystyrene. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. 10.0m to 12.8m: Hydrocarbon odour	10.0 —
11.00	ES12							- - - - - - -		11.0 -
12.00	ES13							- - - - - - -		12.0 -
							5.46	- 12.80 13.20	MADE GROUND: Greyish black slightly gravelly very clayey fine to coarse SAND with fragments of plastic bags. 12.8m to 13.2m: Hydrocarbon odour Brown silty fine to coarse SAND. 13.2m to 16.0m: Mild hydrocarbon odour	13.0 -
14.00	ES14							- - - - - - -		14.0
truck at (m)	Water S	Strikes Time (min) R	ose to (m) From		elling To (r	Details	s ne (hh:mm)	Remarks	
Casing I To (m) 10.50		Water A From (m) 13.00				·				
16.00	150		•					-	Termination Reason Last U	pdated
									Terminated at scheduled depth 28/06	AGS

0.0			Project No.	Project Name: Mobuoy Remediation Project Phase 2	Borehole ID
XX	CALISEV	VAY	22-0242		BH666
	CAUSEV GEOT	ГЕСН	22-0242	Client: DAERA/NIEA	рпоор
				Client's Rep: Tetra Tech	
Method Cable Percussion	Plant Used Dando 3000	Top (m) Base (m) 0.00 16.00		Final Depth: 16.00 m Start Date: 06/04/2022 Driller: CC	Sheet 3 of 3 Scale: 1:40
			247824.79 E 417962.59 N	Elevation: 18.26 mOD End Date: 06/04/2022 Logger: SF	FINAL
Depth Sampl (m) Test		ds Casing Water Depth Depth (m) (m)	Level Depth mOD (m)	Legend Description	Backfill
Wa Struck at (m) Casing to Casing Details To (m) Diamet		Chisellin (m) From (m) To	2.26 — 16.00	End of Borehole at 16.00m Remarks	16.5 — 17.0 — 18.5 — 19.0 — 19.5 — 19
10.50 200 16.00 150	13.00 16.00	υ		Termination Reason Last	Updated
				Terminated at scheduled depth 28/	06/2022 AGS

Cable Percussion Dando 3000 0.00 16.00 247861.54 Evention: 19.36 mOT) End Date: 14/04/7022 Logger: SF FI	ehole ID			se 2	ct Pha	on Projec	IEA	DAERA/N	ect N nt: nt's I	CI	ject No. - 0242	22			СН	EOTE			
Section Process Proc	et 1 of 3 ile: 1:40		СС	Driller:	022	14/04/20	Start Date:	16.00 m	l Dep	Fi				-					
MADE GROUND: Soft gary slightly gravelly sandy CLAY with plants MADE GROUND: Soft gary slightly gravelly sandy CLAY with plants MADE GROUND: Soft gary slightly gravelly sandy CLAY with plants MADE GROUND: Soft gary slightly gravelly sandy CLAY with plants MADE GROUND: Soft gary slightly gravelly sandy CLAY with plants MADE GROUND: Soft gary slightly gravelly sandy CLAY with plants MADE GROUND: Soft gary slightly gravelly sandy CLAY with plants MADE GROUND: Soft gary slightly gravelly sandy CLAY with plants MADE GROUND: Soft gary slightly gravelly sandy CLAY with plants MADE GROUND: Soft gary slightly gravelly sandy CLAY with plants MADE GROUND: Soft gary slightly gravelly sandy CLAY with plants MADE GROUND: Soft gary slightly gravelly sandy CLAY with plants MADE GROUND: Soft gary slightly gravelly sandy CLAY with plants MADE GROUND: Gary very Clayer sandy subangular to suborounded fine to coanse. MADE GROUND: Gary very Garyer sandy subangular to suborounded fine to coanse. MADE GROUND: Gary with low cobble content and fragments of glass, metal wive, red brick, wood and plants. Sand is fine to coanse. MADE GROUND: Gary with low cobble content and fragments of glass, metal wive, red brick, wood and plants. Sand is fine to coanse. MADE GROUND: Gary with low cobble content and fragments of glass, metal wive, red brick, wood and plants. Sand is fine to coanse. MADE GROUND: Gary this box cobble content and fragments of glass, the and garden refuse, social coanse. Globales are subangular to subrounded fine to coanse. MADE GROUND: Gary this box coatse. MADE GROUND: Gary this box	INAL		SF	Logger:	022	14/04/20	nd Date:	19.36 mOD	ation	El			Water	Carina				l	
subangular to subrounded fine to coarse. 18.36 - 1.00 18	ackfill	N ate		AY with	andy C			GROUND: So		L			Depth	Depth		eld Records	Fie		
16.36 3.00 IMADE GROUND: Soft grey slightly gravelly sandy CLAY with plastic bags, food wrapping, glass, garden refuse and tiles. Sand is fine to coarse. Characteristic states and tiles. Sand is fine to coarse. The coarse GRAVE, with low coable content and fragments of glass, metal wire, red brick, wood and plastic. Sand is fine to coarse. GRAVE, with low coable content and fragments of glass, metal wire, red brick, wood and plastic. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Mater Strikes Chiseling Details Water Added To (m) Time (min) Rose to (m) From (m) To (m) Time (min) Time	0.5	-	low wood	LAY with	sandy C wrappii	o coarse. ly gravelly s rags, food v	it grey slightl lastic bags, i and is fine to oarse.	GROUND: So e content and arden refuse. unded fine to			- 1.00	18.36		ES2					
NADE GROUND: Soft grey signify gravelity of sheet is subangular to subrounded fine to coarse. 15.36	2.0																	ES3	.00
MADE GROUND: Grey very capey sandy subangular to subrounded fine to coarse (RAVEL with low cobble content and fragments of glass, metal wire, red brick, wood and plastic. Sand is fine to coarse. MADE GROUND: Grey mottled black slightly sandy slightly gravelly CLAY with low cobble content and raparely glass, metal wire, cars, glass, file and garden refuse. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles and boulders are subrounded. MADE GROUND: Grey mottled black slightly sandy slightly gravelly CLAY with low cobble content and plastic bags, rags, pipe, wood, food wrapping, metal sheet, wire, cars, glass, file and garden refuse. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles and boulders are subrounded. MADE GROUND: Grey ish black mottled grey very clayey sandy subangular to subrounded fine to coarse. Gravel is subangular to subrounded. MADE GROUND: Grey ish black mottled grey very clayey sandy subangular to subrounded fine to coarse. Gravel is subangular to subrounded. MADE GROUND: Grey ish black mottled grey very clayey sandy subangular to subrounded fine to coarse. Gravel is subangular to subrounded. MADE GROUND: Grey ish black would be and plastic. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded. MADE GROUND: Grey ish black mottled grey very clayey sandy subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to subrounded fine to coarse. Gravel is subangular to su	3.5	-		Sand is f	nd tiles	n refuse an	glass, garde angular to su	food wrappinge. Gravel is sul	∭ t		3.00	16.36						ES4	.00
MADE GROUND: Grey mottled black slightly gravelly (CLAY with low cobble content and plastic bags, rags, pipe, wood, food wrapping, metal sheet, wire, cans, glass, tile and garden refuse. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Grovel is subangular to subrounded. 3.0m to 7.0m. Putril odout MADE GROUND: Grey ish black mottled grey very clayey sandy subangular to subrounded fine to coarse GRAVEL with low cobble and boulder content and fragments of red brick, concrete, metal pipe, wire, wood, plastic bag aluminium foil and tile. Sand is fine to coarse. Cobbles and boulders are subangular to subrounded. Water Strikes Chiselling Details Tuck at (m) Casing to (m) Time (min) Rose to (m) From (m) To (m) Time (hh.mm) Remarks	4.5	-	ts of	fragmen	ent and	obble conte	L with low co	coarse GRAV	∭ f		4.00	15.36						ES5	1.00
Subangular to subrounded fine to coarse GRAVEL with low cobble and boulder content and fragments of red brick, concrete, metal pipe, wire, wood, plastic bag aluminium foil and tile. Sand is fine to coarse. Cobbles and boulders are subangular to subrounded. Water Strikes	5.c 5.5	-	ood, n refuse.	s, pipe, w nd gardei	ags, rag ss, tile a to subre	d plastic ba e, cans, glas ubangular t	e content and I sheet, wire a. Gravel is su boulders are	with low cobb vrapping, met s fine to coars e. Cobbles and	f		5.00	14.36							
truck at (m) Casing to (m) Time (min) Rose to (m) From (m) To (m) Time (hh:mm) Casing Details Water Added To (m) Diameter From (m) To (m)	7.0	_	obble netal fine to	vith low co increte, m e. Sand is	RAVEL vorick, collaboration	coarse GR nts of red b minium foil	inded fine to and fragmer stic bag alun	gular to subro oulder conten wire, wood, p	\$ P		-								7.00
Casing Details Water Added To (m) Diameter From (m) To (m)									rks	Re					From	Rose to (m)			ruck at (m)
											·		- (. ,		Added	Water	Details	Casing
															1	To (m) 16.00	From (m) 13.00	Diameter 200	To (m) 16.00
Termination Reason Last Updated Terminated at scheduled depth 28/06/2022			-																

	C	AUSEV GEOT	ECH		22-	ect No. ·0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH667
Meth Cable Per		Plant Used Dando 3000	Top (m) B	ase (m) 16.00		dinates 61.54 E	Final Depth: 16.00 m Start Date: 14/04/2022 Driller:	CC Sheet 2 of 3 Scale: 1:40
						92.46 N	Elevation: 19.36 mOD End Date: 14/04/2022 Logger:	SF FINAL
Depth (m)	Sample / Tests	Field Records		asing Water lepth Depth (m) (m)	Level mOD	Depth (m)	Legend Description	Backfill N
3.00	ES9					-	MADE GROUND: Greyish black mottled grey very clayey sar subangular to subrounded fine to coarse GRAVEL with low and boulder content and fragments of red brick, concrete, pipe, wire, wood, plastic bag aluminium foil and tile. Sand i coarse. Cobbles and boulders are subangular to subrounde	cobble 7.5 metal s fine to
.00	ES10					-		9.0
10.00	ES11					-		10.0
1.00	ES12				8.36	- 11.00	MADE GROUND: Soft greyish brown sandy gravelly CLAY wi fragments of wood, plastic bags, of garden refuse. Sand is f coarse. Gravel is subangular to subrounded fine to coarse.	
2.00	ES13					-		12.5
13.00	ES14				5.96	13.40	Brownish grey slightly silty slightly gravelly fine to coarse SA	13.0 iND.
						-	Gravel is subangular to subrounded fine to coarse of variou lithologies.	14.0
						-	13.5× 3	
ruck at (m) Casing To (m)		Strikes Time (min) Rose to (Water Added From (m) To (m)	m) From (m	Chiselling		s ne (hh:mm)	Remarks	
16.00	200	13.00 16.00					Termination Reason	Last Updated
							Termination Reason Terminated at scheduled depth	28/06/2022 A.G.

		AUSEV			(n.)	22-0		Client's Rep: Tetra Tech	BH667
Metho able Perci		Plant Used Dando 3000	0.00	n) Base		247861		Final Depth: 16.00 m Start Date: 14/04/2022 Driller: CC	Sheet 3 of 3 Scale: 1:40
	la			Casing	Water	417992		Elevation: 19.36 mOD End Date: 14/04/2022 Logger: SF	FINAL
Casing Do		Field Recor Strikes Time (min) Rose to Water Added From (m) To (r	o (m) Froi		elling To (m	3.36 Details i) Time	Depth (m)	Brownish grey slightly slity slightly gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse of various lithologies. End of Borehole at 16.00m End was a subrounded fine to coarse of various lithologies.	Section 15.00 15.00 16
16.00	200	13.00 16.0	טט				-	Termination Reason Las	t Updated
								Terminated at scheduled depth 28	3/06/2022 1

		AUSEW GEOT	ECH	L	:	22-0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	BH668 Sheet 1 of 3		
Meth Cable Per		Plant Used Dando 3000	Top (m) 0.00	Base 16.0	00	47892.95 E	Final Depth: 16.00 m Start Date: 11/04/2022 Driller: CC		Sheet 1 of 3 Scale: 1:40	
					4	17958.06 N	Elevation: 18.06 mOD End Date: 11/04/2022 Logger: SF		FINAL	
Depth (m)	Sample / Tests	Field Record	5	Depth [evel Depth	Legend Description MADE GROUND: Greyish brown sandy gravelly CLAY with low col	Water	Backfill	
0.50 1.00	ES1						and boulder content and plastic bags, textiles, wood, food wrapp and glass. Sand is fine to coarse. Gravel is subangular to subround fine to coarse. Cobbles and boulders are subangular to subround 0.0m to 4.0m. Hydrocarbon odour	ng led	1.4	
2.00	ES3					- - - - - - - - -			2.3	
3.00	ES4					- - - - - - - -			3.	
1.00	ES5				14	4.00	MADE GROUND: Brown sandy very clayey subangular to subrour fine to coarse GRAVEL with low cobble and boulder content and plastic bags, bottles, rags and food wrapping. Sand is fine to coar Cobbles and boulders are subangular to subrounded. 4.0m to 6.0m: Hydrocarbon odour		4	
5.00	ES6					- - - - - - - - -			5.1	
6.00	ES7				12	2.06 - 6.00	MADE GROUND: Soft greyish black sandy gravelly CLAY with low cobble content and plastic bags, rags, tape, glass, tile, wood, gard refuse of decomposed appear. Sand is fine to coarse. Gravel is subangular to subroudned fine to coarse. Cobbles are subangula 6.0m to 8.0m: Hydrocarbon adour		6.4	
7.00	ES8					- - - -			7.1	
truck at (m)	Water S	Strikes Time (min) Rose to (m) From		lling De	Time (hh:mm)	Remarks No ES completed 16 0m due to conducaching out			
u ack at (M)	casing tO (m)	Time (Timi) Rose to (3.60		4.20	01:00	No ES sample at 16.0m due to sand washing out			
Casing	Details	Water Added								
To (m) 10.50	Diameter 200	From (m) To (m)	\dashv							
16.00	150						Termination Reason La	t Update	ed	
			1			1				

	C	AUSEW	AY			roject No. 22-0242	Client:	t Name: Mobuoy DAERA/I			вн668	
		——GEOT	ECH				Client'	s Rep: Tetra Ted	ch			
Metho		Plant Used	Top (m)			oordinates	Final De	enth: 16.00 m	Start Date: 11/04/2022	Driller: CC		Sheet 2 of 3
Cable Perc	cussion	Dando 3000	0.00	16.0		7892.95 E	Fillal De		Start Date. 11/04/2022	Dillier. CC		Scale: 1:40
						.7958.06 N	Elevatio	on: 18.06 mOD	End Date: 11/04/2022	Logger: SF		FINAL
Depth (m)	Sample / Tests	Field Records	Depth D	epth m) mC		Legend	MADE CROUND: So	Description oft greyish black sandy gravelly	CLAV with low	Water	Backfill	
.00	ES9				10.	06 - 8.00		cobble content and refuse of decomposubangular to subro MADE GROUND: Decobble content and and timber. Sand is	I plastic bags, rags, tape, glass, sed appear. Sand is fine to coal budned fine to coarse. Cobbles ark brown slightly sandy gravel I plastic bags, clothing, metal, rifine to coarse. Gravel is subanbles are subrounded.	tile, wood, gar rse. Gravel is are subangula lly CLAY with lo rope, glass, brid	w ck	8 8
.00	ES10											9
.0.00	ES11					- - - - - - -						10
1.00	ES12					-						11
2.00	ES13											12
.3.00	ES14					 - - - - - -						13
.4.00	ES15				4.5	56 - 13.50			reenish brown mottled black sl D with occasional fragments of Ir fine to medium. Trydrocarbon odour			13
						-						14
ruck at (m) Ca	Water Sasing to (m)	Strikes Time (min) Rose to (m) From	m)	ling De To (m) 4.20	Time (hh:mm)	Remarks No ES san	nple at 16.0m due to	sand washing out			
			3.00		7.20	01.00						
Casing D	otails	Water Added	_									
To (m) 0T	Diameter	From (m) To (m)										
10.50 16.00	200 150						Termina	tion Reason		1.0	ast Update	-d = -
							icinillid	NCasuii		"	Joe Opuali	

		AUSEV GEOT				22-	ect No. 0242	Client:		NIEA				Borehol BH66	68
Meth Cable Per		Plant Used Dando 3000	Top (r	n) Base	.00		dinates	Final De	epth: 16.00 m	Start Date:	11/04/2022	Driller:	СС	Sheet 3 Scale: 1	
						92.95 E 58.06 N	Elevatio	on: 18.06 mOD	End Date:	11/04/2022	Logger:	SF	FINA	۱L	
Depth (m)	Sample / Tests	Field Record	s	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend			iption			ë Backfil	1
							-		MADE GROUND: Gr fine to coarse SAND Gravel is subangula	with occasion	al fragments of				
5.00	ES16					3.06	- 15.00	××××	Dark greenish grey						15.0
								× × × × ×							
							-	×.×							15.
								× ^ × × × ×							•
						2.06	- 16.00 -	×: ×:		End of Boreh	ole at 16.00m			· H·	16.0
							Ė								
													16.		
						-									
						-								17.	
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							-								17.
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							-								21
							-								21
							-								
							-								
	Water	Strikes		Chis	elling	Detail	s	Remarks	<u> </u>						_
ck at (m)	Casing to (m)	Time (min) Rose to	(m) From	m (m)	To (m) Tin	ne (hh:mm) 01:00	No ES sam	nple at 16.0m due to	sand washing o	ut				
Casing I		Water Added													
o (m) 10.50	Diameter 200	From (m) To (m)												
16.00	150							Terminat	tion Reason				Last Upd	ated	
								Terminate	ed at scheduled depth	١			28/06/2	022	T.

		AUSEW	ECH		22-	ect No. 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH669
Meti Cable Per		Plant Used Dando 3000	Top (m) 0.00	16.00		dinates	Final Depth: 16.00 m Start Date: 07/04/2022 Driller:	CC Scale: 1:40
						28.89 E 33.66 N	Elevation: 17.32 mOD End Date: 07/04/2047 Logger:	: SF FINAL
Depth (m)	Sample / Tests	Field Records	5	Casing Depth (m) (m)	Level mOD	Depth (m)	Legend Description	ਬ Backfill
00	ES1				16.32	- 1.00	MADE GROUND: Soft greyish brown sandy gravelly CLAY wibags, wood, garden refuse-roots (2 to 20mm x 200mm) tile and metal wire. Sand is fine to coarse. Gravel is subangular subrounded fine to coarse. MADE GROUND: Greyish black sandy gravelly CLAY with plarags, rope, string, food wrapping, wood, tile and metal wire fine to coarse. Gravel is subangular to subrounded fine to coarse.	, glass to 0.5 sistic bags,
.00	ES3					- - - - - - - -		2.5
.00	ES4				14.32	3.00	MADE GROUND: Soft grey sandy gravelly CLAY with low cot boulder content and carpet, tiles, rubber tyre, plastic bags, string, garden refuse, roots (2 to 25mm x 150mm) and glas fine to coarse. Gravel is subangular to subrounded fine to cobbles and boulders are subangular to subrounded. 3.0m to 5.0m: Hydrocarbon odour	rags, s. Sand is
.00	ESS				12.32	- 5.00	MADE GROUND: Soft greyish black slightly gravelly sandy C low cobble and boulder content and carpet tiles, carpet, ru tyres, tiles, plastic bags, rags, glass, metal sheet, wire, gard textiles and polystyrene. Sand is fine to coarse. Gravel is su to subrounded fine to coarse. Cobbles and boulders are sul	bber, en refuse, bangular
5.00	ES7					-	to subrounded. 5.0m to 12.6m: Strong hydrocarbon odour	6.4
7.00	ES8					-		7.0
ruck at (m)	Water S	Strikes Time (min) Rose to (Chisellin		s ne (hh:mm)	Remarks	
Casing To (m) 10.50		Water Added From (m) To (m) 12.60 16.00	3.50			02:00		
16.00	150	10.00					ermination Reason	Last Updated
							erminated at scheduled depth	28/06/2022 AG

			ЕОТЕ	СН			22-	ect No. 0242	Project Client: Client's		NIEA	n Project Ph	ase 2			orehole	9
Meth Cable Per		Plant Us Dando 30		Top (m) 0.00	16.		2478	28.89 E 33.66 N	Final De		Start Date: End Date:		Driller: Logger:		S	neet 2 o cale: 1:	40
Depth (m)	Sample / Tests	Field	l Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend	"		ription			Water	Backfill	
8.00	ES9							- - - - - - - - -		MADE GROUND: So low cobble and bou tyres, tiles, plastic b textiles and polysty to subrounded fine to subrounded.	ulder content a pags, rags, glass rene. Sand is fi	nd carpet tiles, s, metal sheet, v ne to coarse. G	carpet, rub wire, garde ravel is sub	ober, en refuse, oangular			7.5 · 8.0 -
9.00	ES10							- - - - - - - - -									9.0 -
10.00	ES11							-									10.0 -
11.00	ES12							-									11.0 - 11.5
.2.00	ES13						4.72	12.60									12.0 - 12.5
13.50	ES14						4.02	13.30		Brown mottled grey coarse SAND. Grave 12.6m to 13.3m: Hydroca Brownish grey sligh Gravel is subangula	el is subangular arbon odour utly silty slightly	gravelly fine to	fine to me	edium.			13.0 -
	Water	Strikes		1	Chis	elling	Detail	s	Remarks						÷		14.5
Casing I	Casing to (m) Details Diameter	Time (min) R Water A From (m)	dded To (m)	3.50	(m)	To (n 5.00	n) Tir	me (hh:mm) 02:00									
10.50 16.00	200 150	12.60	16.00							tion Reason d at scheduled depth	1			Last Up			4

	ercussion Dando 3000 0.00 1						0242	Client: Client's I	DAERA/N			T		вне	
Metho able Percu							dinates 28.89 E	Final Dep	th: 16.00 m	Start Date:	07/04/2022	Driller:	СС	Sheet :	
					Casing	Water	33.66 N	Elevation	: 17.32 mOD	End Date:	07/04/2047	Logger:	SF	FIN	AL
Casing De	Water Sing to (m)	Strikes Time (min) Ro	se to (m)		Chiso	elling To (r) 5.00	Depth (m)	Remarks	Brownish grey sligh Gravel is subangula	tly silty slightly r to subrounde	gravelly fine to ded fine to mediu	coarse SA	ND.	Back Back State St	15.0 15.0 16.0 16.0 17.0 18.0 19.0 19.5 20.0 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5
To (m) D 10.50 16.00	200 150		To (m) 16.00	-			-	Terminatio	on Reason				Last Up	dated	_
								Terminated	at scheduled depth	1			28/06/2		

		AUSEW GEOT	ECH			22-0		Project Name: Mobuoy Remediation Project Pha Client: DAERA/NIEA Client's Rep: Tetra Tech	ase 2	Borehole II BH670 Sheet 1 of 3		
Methodological Cable Perco		Plant Used Dando 3000	Top (m)	15.	00	24779	4.81 E	Final Depth: 15.00 m Start Date: 12/04/2022	Driller: CC		Scale: 1:4	10
Depth	Sample /		Casing	Water	41791 Level	3.33 N Depth		Logger: SF	er	FINAL	_	
(m) 0.50	Tests ES1	Field Records		Depth (m)		mOD	(m)	MADE GROUND: Brown gravelly sandy CLAY with a concrete and plastic. Sand is fine to coarse. Gravel subangular fine to coarse. MADE GROUND: Dark greyish brownish black clay	is angular to	Water	Backfill	0.5
1.00	ES2						- - - - - - -	subangular fine to coarse GRAVEL with domestic v plastic, timber, glass and ceramic. Sand is fine to c				1.0
2.00	ES3						- - - - - - - -					2.0
3.00	ES4						- - - - - - - - - - - - - - - - - - -	4.00m: Crisp packet dated 2002 4.00m to 5.00m: Increased volume of shredded plastic			:	3.5 4.0
5.00	ES5						- - - - - -					5.0
6.00	ES6				1	10.30	- 5.70 - - - - - - -	MADE GROUND: Greyish brown sandy gravelly silt fragments of concrete and schist. Sand is fine to coangular to subangular fine to coarse.				6.0
7.00	ES7					8.70	- - - - 7.30					7.0
	Water S			Chis	elling D	etails		Remarks		1		_
		Time (min) Rose to (m) From		To (m)		e (hh:mm)					
Casing D		Water Added From (m) To (m)	_									
7.50 10.50	200 150							Termination Reason	Last Up	date	ed T	Ŧ

		AUSEV GEOT			2	roject No. 22-0242	Client:		NIEA	oojecti II	1		Borehole I BH670
Metho Cable Percu		Plant Used Dando 3000	Top (m) 0.00	15.0	00	oordinates 47794.81 E	Final De	epth: 15.00 m	Start Date:	12/04/2022	Driller:	СС	Sheet 3 of 3 Scale: 1:40
						17913.33 N	Elevatio	on: 16.00 mOD	End Date:	12/04/2022	Logger:		FINAL
Depth (m)	Sample / Tests	Field Record	is .	Casing W	(m) m	wel	Legend	Grey silty gravelly fi rounded fine to coa	ne to coarse S arse.	cription AND. Gravel is s hole at 15.00m			Backfill
ck at (m) c	Water S		(m) From	Chise	lling De	tails	Remarks						19 19 20 21
Casing De (m) D (7.50	etails Diameter 200	Water Added From (m) To (m		(m)	To (m)	(IIme (hh:mm)							
10.50	150						Termina	tion Reason				Last Upda	ated

	C	AUSEW —GEOT	/AY		1	ect No. -0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA	Borehole ID BH671
_				L	_		Client's Rep: Tetra Tech	
Meth Cable Per		Plant Used Dando 3000	Top (m 0.00	10.50	Coo	rdinates	Final Depth: 10.50 m Start Date: 11/04/2022 Driller: CC	Sheet 1 of 2 Scale: 1:40
						352.84 E 399.54 N	Elevation: 9.91 mOD End Date: 12/04/2022 Logger: SF	FINAL
Depth (m)	Sample / Tests	Field Records	3	Casing Water Depth Depth (m) (m)	Level mOD	Depth (m)		ਬੋ Backfill
					0.55	- 0.25	MADE GROUND: Reinforced CONCRETE	
00	ES1				9.66	0.25	MADE GROUND: Light brown silty very gravelly fine to coarse SAND with high cobble and boulder content. Gravel is subangular to subrounded fine to coarse. Cobbles and boulders are rounded (Hardcore fill)	0.5
.00	ES3				8.51	1.40	MADE GROUND: Black occasionally mottled brown sandy gravelly CLAY with plastic, timber and organic material. Sand is fine to coarse. Gravel is subrounded fine to coarse. 1.4m to 3.0m: Hydrocarbon odour	2.0 -
.00	ES4				6.91 6.61	3.30	MADE GROUND: Black slightly sandy gravelly silty CLAY with occasional fragments of wire, timber, plastic piping. Sand is fine to coarse. Gravel is subrounded to rounded fine to coarse. 3.3m to 3.3m: Strong hydrocarbon odour Dark greenish brown silty fine to coarse SAND. 3.3m to 10.5m: Hydrocarbon odour	3.0 -
.00	ES5						S.Sin to 10.5in. Hydrocardon addur	4.0 -
00	ES6							5.0
						-	EVEX.4	📑 🌣
munds -+ / \	Water S	Strikes Time (min) Rose to (m) From	Chisellin		ls me (hh:mm)	Remarks	
Casing To (m) 5.00		Water Added From (m) To (m) 1.00 10.00						
10.50	150						Termination Reason Last Upd	ated 🔳
							Terminated on engineers instruction 28/06/2	022 AGS

NA-A1		GEO			(m)		0242	Client: Client's I	DAERA/N Rep: Tetra Tec			T		BH671
Meth able Per	cussion	Plant Used Dando 3000	Top (m) 0.00	10.			dinates	Final Dep	th: 10.50 m	Start Date:	11/04/2022	Driller:	СС	Sheet 2 of 2 Scale: 1:40
							52.84 E 99.54 N	Elevation	: 9.91 mOD	End Date:	12/04/2022	Logger:	SF	FINAL
Depth (m)	Sample / Tests	Field Reco	rds	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend			cription			Backfill
ck at (m) C	Casing to (m)	Strikes Time (min) Rose t			elling To (1	-0.59	10.50	Remarks	Dark greenish brow		hole at 10.50m			7.5 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0
o (m)	Diameter	From (m) To (m)											
5.00 0.50	200 150	1.00 10.0	00				}	Terminatio	on Reason				Last Upda	ted 🔳 🔳
								T (4 d	on engineers instru				28/06/20	

8.57 0.70 Sest and some subrounded fine to coarse of the c			AUSEV GEO				22-	ect No. 0242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH672
MALE GROUNDS: recording anglant to subangular first to coarse. 8.57 0.30 8.57 0.70 8.				_			24786	62.48 E		Scale: 1:40
8.97 0.30 8.57 0.70 8.57 0.70 8.57 0.70 8.57 0.70 8.57 0.70 8.57 0.70 8.57 0.70 8.57 0.70 8.57 0.70 8.57 0.70 8.57 0.70 8.58 0.70 8.59 0.70 8.50 8.50 0.70 8.50 8.50 0.70 8.50 8.50 0.70 8.50 8.50 0.70 8.50 8.50 0.70 8.50 8.50 0.70 8.50 8.50 0.70 8.50 8.50 0.70 8.50 8.50 0.70 8.50 8.50 0.70 8.50 8.50 0.70 8.50 8.50 0.70 8.50 8.50 0.70 8.50 8.50 0.70 8.50			Field Recor	ds	Depth	Water Depth (m)		Depth (m)		Backfill N
Solution Section Secti	0.50 1.00							-	MADE GROUND: Brown silty sandy angular to subangular fine to coarse GRAVEL with fragments of brick and concrete. Sand is fine coarse. MADE GROUND: Grey clayey very sandy angular to subrounded to coarse GRAVEL with low cobble content, fragments of ceramic	0.5 —
100 ES4	2.00	ES3					6.57	- 2.70	Brown silty gravelly fine to medium SAND. Gravel is subangular t	2.5
Water Strikes Casing Details Casing Details Water Added To (m) Diameter From (m) To (m) To (m) To (m) Termination Reason Last Updated	3.00	ES4						-		3.0 — - - - -
Casing Details Water Added To (m) Diameter From (m) To	4.00	ESS								4.0
Casing Details Water Added	*****************			(m) F:					Remarks	1 1
	Casing D To (m) 1 3.00	etails Diameter 200	Water Added		om (m)	10 (r	II) Tim	ie (nh:mm)	ermination Reason La	st Updated
I I I I I I I I I I I I I I I I I I I										

Project No. Project No.					A. A			Dro	ject No.	Project	Nama: Mahuay	Pomodiatio	an Draiget Dh	250.7		T P.	orehole ID
Morth-ord Plant Used Topy (n) Base (m) Coordinates Cable Percusion Outdo 3000 Out 11.00 2476.0.48 To Cable Percusion Outdo 3000 Out Outdo 3000 Ou		8	ΔΠΩ	=W/	ΔΥ								JII FIOJECI FII	ase Z			
Morth-ord Plant Used Topy (n) Base (m) Coordinates Cable Percusion Outdo 3000 Out 11.00 2476.0.48 To Cable Percusion Outdo 3000 Out Outdo 3000 Ou	5		—— GE	OTE	СН			~	0242								DI 10/ Z
Capie Percussion						D	1. 1			Client's	Kep: Tetra Tec	ch I					
A 2478 247							_	Coc	ordinates	Final Dep	oth: 11.00 m	Start Date:	13/04/2022	Driller:	CC	- 1	
To coming Details Water Strikes Chiesting Details To (min) To										Elevation	9.27 mOD	End Date:	14/04/2022	Logger:	SF		
To coming Details Water Strikes Chiesting Details To (min) To	Depth (m)		Field	Records		Casing Depth	Water Depth	Level		Legend		Desc	cription		-	/ater	Backfill
Last Opdated Last Opdated	Casing To (m) 3.00	Water Casing to (m Details Diameter 200	Strikes) Time (min) Ro	ose to (m)		Chisc	elling	-1.73	3 - 11.00	Remarks	subrounded fine to	fine to mediu coarse.	ım SAND. Gravel	is subang			7.5 — 7.5 —
Terminated on engineers instruction 28/06/2022	11.00	150								Terminati	on Reason				Last U	pdate	d
										Terminated	on engineers instru	ction			28/06	5/2022	AGS

Method Cable Percussion Depth (m) Sample / Tests 0.50 ES1 1.00 ES2 2.00 ES3 3.00 ES4 5.00 ES5 5.00 ES6	/ Field Percer	Records	Casing Depth I	247	(m)	Final Depth: 10.00 m Start Date: 20/04/2022 Elevation: 10.37 mOD End Date: 20/04/2022 Legend Description MADE GROUND: Greyish brown clayey sandy subsubrounded fine to coarse GRAVEL with low cobbl fragments of wood, red brick and concrete. Sand i Cobbles are subangular to subrounded. 0.0m to 2.0m: Mild hydrocarbon odour	le content and	Sheet 1 of 2 Scale: 1:40 FINAL Backfill 0.5
(m) Tests 0.50 ES1 0.00 ES2 0.00 ES3 0.00 ES4	Pield Record		Casing Depth I	Depth mOD	(m)	MADE GROUND: Greyish brown clayey sandy subsubrounded fine to coarse GRAVEL with low cobbl fragments of wood, red brick and concrete. Sand i Cobbles are subangular to subrounded. Om to 2 0m: Mild hydrocarbon odour	le content and	1.5
2.00 ES3 3.00 ES4	Water strike at 1.80n	1.80m		8.37	7 - 2.00	subrounded fine to coarse GRAVEL with low cobbl fragments of wood, red brick and concrete. Sand i Cobbles are subangular to subrounded. Om to 2.0m: Mild hydrocarbon odour	le content and	1.5
				5.67 4.37	7 4.70	MADE GROUND: Greyish black slightly gravelly sar garden refuse, textiles, fragments of red brick, cor Sand is fine to coarse. Gravel is subangular to subricoarse. 2 m to 2.7m: Strong hydrocarbon odour MADE GROUND: Black clayey gravelly fine to coarse garden refuse and fragments of wood. Gravel is susubrounded fine to coarse 2.7m to 4.7m: Viscous hydrocarbon liquid with strong hydrocarbon of the subject of	se SAND with ubangular to	2.0 2.5 3.0 3.5 4.0 4.5 5.0
Water		ose to (m) From 1.50	Chise	illing Deta	ails Time (hh:mm)	Remarks Termination Reason	lact II	pdated 6.3

X	C	ΔUSEV	ΥΔΥ				ct No. 0242	Project Nam Client:			on roject ril	4JC Z		orehole ID BH673
3		AUSEV GEOT	ECH			∠∠- (J242		DAERA/I					DH0/3
Math -					(m)	Ca===	linata -	Client's Rep	: Tetra Ted	an T				haata sa
Metho le Perci		Plant Used Dando 3000	Top (m) 0.00	10.			linates	Final Depth:	10.00 m	Start Date:	20/04/2022	Driller:	CC I	heet 2 of 2 Scale: 1:40
							34.91 E 99.32 N	Elevation:	10.37 mOD	End Date:	20/04/2022	Logger:		FINAL
epth (m)	Sample / Tests	Field Record	ls	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend		Des	cription		Water	Backfill
	Water	Strikes Time (min) Rose to 20 1.50		Chisc		0.37	- 10.00		n slightly silty		hole at 10.00m			9.0 10.0 11.0 11.5 12.5
asing De (m) [etails Diameter 200 150	Water Added From (m) To (m 5.00 9.00						Termination R	pason			Т	Last Update	d ====
								Terminated on e	243011				28/06/2022	

Metho Cable Perc	od	Plant Used Dando 3000	Top (m) Bas	e (m) 2.00	Coord	0242 dinates B1.94 E	Client: DAERA/NIEA Client's Rep: Tetra Tech Final Depth: 12.00 m Start Date: 15/04/2022 Driller: CC	Sheet 1 of 2 Scale: 1:40
						41792	11.74 N	Elevation: 11.47 mOD End Date: 15/04/2022 Logger: SF	FINAL
Depth (m)	Sample / Tests	Field Recor	ds	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description MADE GROUND: Soft grey slightly sandy gravelly CLAY with plastic	Backfill
00	ES1					10.47	- 1.00	bags, textiles, refuse, fragments of tile, glass and wood. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. MADE GROUND: Soft greyish black slightly sandy slightly gravelly CLAY with textiles, carpet, rubber tyres, plastic bags, food wrapping, fragments of wood, glass, garden refuse. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium.	1.5
.00	ES3 ES4 ES5					8.07	- 3.40	MADE GROUND: Black DOMESTIC WASTE comprising textiles, plastic	2.5
.00	ES6					7.47	- 4.00 	bags, food wrapping, fragments of wood, glass and red brick. 3.4m to 4.0m: Black hydrocarbon liquid with strong hydrocarbon odour Dark greyish black slightly silty sandy subangular to subrounded fine to coarse GRAVEL with low cobble and boulder content. Sand is fine to coarse. Cobbles and boulders are subrounded. 4.0m to 6.3m: Strong hydrocarbon odour	4.0 ·
5.00	ES7					5.17	6.30	Greyish brown slightly silty fine to coarse SAND. 6.3m to 12.0m: Mild hydrocarbon odour	5.5
	Water 9	Strikes		Chi	selling	g Details	5	Remarks	
Casing D		Water Added From (m) To (n 6.00 12.0	n)		To (ne (hh:mm)	Termination Reason Last (Jpdated J

							oject No.		Name: Mobuoy		on Project Ph	ase 2			rehole ID
		AUSEV	TECH			22	2-0242	Client:	DAERA/N					1	ВН674
								Client's	Rep: Tetra Ted	ch					
Met Cable Pe		Plant Used Dando 3000	Top (m) 0.00	Base 12.			rdinates 7881.94 E	Final Dep	oth: 12.00 m	Start Date:	15/04/2022	Driller:	CC		neet 2 of 2 cale: 1:40
							'911.74 N	Elevation	11.47 mOD	End Date:	15/04/2022	Logger:	SF		FINAL
Depth (m)	Sample / Tests	Field Recor	ds	Casing Depth (m)	Water Depth (m)	Leve mOE	Depth (m)	Legend			cription			Water	Backfill
		Vater Added From (m) To (n 6.00 12.0	n)		relling To (-0.5.		Remarks	on Reason		hole at 12.00m		Last Up		9.0 — 10.0 — 11.5 — 12.5 — 13.5 — 14.5 —
									on engineers instru	ection			28/06/		ACC
								ieiiiiiiate0	on engineers instru	CHUII			20/06/	2022	AUS

	C	AUSEW —GEOTI	AY ECH		Projec 22-0		Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH675
Meth	hod	Plant Used	Top (m) B	ase (m)	Coord	inates	First Bouth. 12.00 m Start Bota. 12/05/2022 Buillion CC	Sheet 1 of 2
Cable Per	rcussion	Dando 3000	0.00	13.00	24789 41790		Final Depth: 13.00 m Start Date: 12/05/2022 Driller: CC Elevation: 13.20 mOD End Date: 12/05/2022 Logger: SF	Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field Records	D	epth Depth	Level mOD	Depth (m)	Legend Description	Backfill
).50 1.00	ES1				13.00	- 0.20	MADE GROUND: Grey silty sandy angular fine to coarse GRAVEL with high cobble content. Sand is fine to coarse. MADE GROUND: Black DOMESTIC WASTE of plastics, clothing, carpet, rubber, metal and timber.	0.5
.00	ES3				11.60	- 1.60 - 2.00	MADE GROUND: Dark brown clayey sandy subangular to subrounded fine to coarse GRAVEL with occasional plastics. Sand is fine to coarse. MADE GROUND: Black slightly sandy gravelly SILT with high volume of timber, plastics, carpet metal and textiles. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.	2.0 -
.00	ES4					- - - - - - - -		3.0 -
.00	ESS					-	4.00m to 9.00m: Yellow powder encountered, very strong smell of rotten cheese. Bicycle tyres, electrical wire and glass.	4.5
.00	ES7							5.5 6.0
7.00	ES8					- - - - -		7.0
	Water 9	Strikes		hiselling	g Details		Remarks	
Casing To (m)		Time (min) Rose to (n Water Added From (m) To (m)				(hh:mm)		
13.00	150						Termination Reason Last Up	dated 📕
							Terminated on engineers instruction 28/06/	

		AUSEW —GEOT				22-0	ct No.)242	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech	Borehole ID BH675
Meti Cable Per		Plant Used Dando 3000	Top (m) 0.00	13.0	00	24789	7.24 E 0.97 N	Final Depth: 13.00 m Start Date: 12/05/2022 Driller: CC Elevation: 13.20 mOD End Date: 12/05/2022 Logger: SF	Sheet 2 of 2 Scale: 1:40
Depth (m)	Sample / Tests	Field Records	i	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description MADE GROUND: Black slightly sandy gravelly SILT with high volum	Backfill e
8.00	ES9						- - - - - - - - -	of timber, plastics, carpet metal and textiles. Sand is fine to coarse Gravel is subangular to subrounded fine to coarse.	
.00	ES10						- - - - - - -		9.0 - 9.5
10.00	ES11					3.40	- 9.80	Brown silty fine SAND	10.0 -
13.00	ES12					0.20	13.00	End of Borehole at 13.00m	12.0
truck at (m)	Water :	Strikes Time (min) Rose to (i	m) From	Chise (m)	elling [Details	- - - - - - - - -	Remarks	14.5
Casing To (m) 10.00	Details Diameter 200	Water Added From (m) To (m)			•				
13.00	150						-		t Updated 3/06/2022 AGS

Meth	od	AUSEV GEOT	Top (m)	_	-	22-0	ect No. 0242 dinates	Project Name: Mobuoy Remediation Project Phase 2 Client: DAERA/NIEA Client's Rep: Tetra Tech Final Depth: 12.00 m Start Date: 09/05/2022 Driller: CC	Borehole ID BH676 Sheet 1 of 2
Cable Per	cussion	Dando 3000	0.00	12.0	00		13.48 E 32.03 N	Elevation: 11.31 mOD End Date: 10/05/2022 Logger: SF	Scale: 1:40 FINAL
Depth (m)	Sample / Tests	Field Record	s	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend Description	Backfill
0.50 1.00	ES1					10.81	- 0.50	MADE GROUND: Grey slightly sandy angular to subangular fine to coarse GRAVEL with low cobble content, fragments of brick and concrete. Sand is fine to coarse. Cobbles are angular. MADE GROUND: Brown very clayey sandy subangular to subrounded fine to coarse GRAVEL with fragments of plastic, rubber, polystyrene glass and timber. Sand is fine to coarse. MADE GROUND: Black sandy gravelly SILT with fragments of timber, glass, plastic, carpet, lino flooring and textiles. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.	1.0 -
2.00 3.00	ES3								2.0 2.5 3.0 3.5
4.00	ES5						-		4.0 -
5.00	ES6					6.31	- 5.00 	Dark brown and black silty fine to coarse SAND. 5.0m to 12.0m: Strong hydrocarbon oddur	5.0
6.00	ES7						- - - - - - - -		6.0 -
7.00	ES8						- - - -		7.0 -
Casing E		Nate)		To (n	Details n) Tim	se (hh:mm)	Remarks	
12.00	150	5.00 12.00							Jpdated I I AGS

	CAUSEWAY GEOTECH Method Plant Used Top (m) Base						ject No. 2-0242	Client:	Name: Mobuoy	NIEA	on Project Ph	ase 2			rehole ID 3H676
								Client's I	Rep: Tetra Tec	ch					
Meth Cable Per		Plant Used Dando 3000	Top (m) 0.00	Base 12.		Coc	ordinates	Final Dep	th: 12.00 m	Start Date:	09/05/2022	Driller:	CC	l	neet 2 of 2 cale: 1:40
							813.48 E 882.03 N	Elevation	: 11.31 mOD	End Date:	10/05/2022	Logger:	SF		FINAL
Depth (m)	Sample / Tests	Field Record	ds	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend			cription			Water	Backfill
(m) 3.00	ES9			(m)		-0.69			Dark brown and bla	ck silty fine to					7.5 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0
truck at (m)	Water Casing to (m) Details	Strikes Time (min) Rose to		Chis	elling To (g Deta		Remarks		End of Bore	hole at 12.00m				13.0 13.5 14.0
To (m) 5.00	Diameter 200	From (m) To (m 8.00 12.00	1)												
12.00	150							Terminatio	on Reason				Last Up	dated	
								Terminated	on engineers instru	ction			28/06/	2022	AC

		AUSEW	ECH		22	ject No. 2-0242	Project Client: Client's		NIEA	oject Pha	ase 2			BH67	77
Metl Cable Per		Plant Used Dando 3000	Top (m) 0.00	12.00	247	826.12 E	Final De		Start Date: 11/0		Driller:			heet 1 Scale: 1	L:40
Depth	Sample /			Casing Water	Level	873.35 N Depth	Elevatio	n: 11.43 mOD	End Date: 11/0		Logger:	SF	.er	FINA	
(m)	Tests	Field Records	i 	Depth (m) Depth	mOD		Legend	MADE GROUND: CO	Description DNCRETE	n 			Water	Backfil	_
0.50 1.00	ES1				11.18	0.25		MADE GROUND: Gr to coarse GRAVEL w and glass. Sand is fi	vith low cobble cont						0.5
2.00	ES3				9.83	1.60		MADE GROUND: BI gravelly sandy SILT glass, textiles, red b coarse. Gravel is sul	with low cobble con	itent and fra netal wire. S	agments of Sand is fine	f timber,			2.0 -
3.00	ES4					-									3.0
4.00	ES5					- - - - - -									4.0
5.00	ES6					-									5.0
6.00	ES7				5.63	- 5.80		MADE GROUND: BI GRAVEL with high v 5.8m to 9.3m: Hydrocarbi	olume of timber, me						6.0
7.00	ES8					- - - - -									7.0 -
	Water		> = :	Chisellin			Remarks	<u> </u>						<u> </u>	
ruck at (m)	casing to (m)	Time (min) Rose to (m) From (m) lo	(m) T	Time (hh:mm)									
Casing		Water Added													
To (m) 9.00	Diameter 200	From (m) To (m)													
12.00	150							tion Reason				Last Upo			Ų
							Terminate	d on engineers instru	ıction			28/06/2	2022		<u>Ut</u>

Metho Cable Percu	d	Plant Us Dando 30	sed	Top (m) 0.00	Base	_	Coorc 24782	dinates 26.12 E 73.35 N	Client: DAERA/NIEA Client's Rep: Tetra Tech Final Depth: 12.00 m Start Date: 11/05/2022 Driller: CC Elevation: 11.43 mOD End Date: 11/05/2022 Logger: SF	Sheet 2 of 2 Scale: 1:40
Depth	Sample /	Field	d Records		Casing Depth	Water Depth (m)	Level	Depth	Legend Description	be Backfill
(m)	ES9				(m)	(m)	mOD	(m)	MADE GROUND: Black slightly sandy subangular fine to coarse GRAVEL with high volume of timber, metal, glass, plastic, rubber.	7.5
.00	ES10						2.13	9.30	Dark brown silty fine to coarse SAND. 9.3m to 12.0m: Slight hydrocarbon odour	9.0 -
2.00	ES11						-0.57	- 12.00	End of Borehole at 12.00m	12.0
	Water 5	Strikes			Chis		g Details		Remarks	
Casing De	etails	Water A) From	(m)	To (e (hh:mm)		Updated I

Metho		AUS G		AY CH		2 ()	22-(ect No. 0242 dinates	Project Client:		NIEA	n Project Ph	ase 2		Borehole II BH678	
Cable Perc		Dando 3		0.00	12	.00	24781	14.44 E 52.90 N	Final De		Start Date: End Date:		Driller: Logger:		Sheet 1 of 2 Scale: 1:40 FINAL	
Depth (m)	Sample / Tests	Field	d Records		Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend	MADE GROUND: CO		ription			Backfill	
0.50	ES1 ES2						12.18	0.30		MADE GROUND: Gr coarse GRAVEL with (crisp packet dated textiles.	rey sandy very :	le content and	occasiona	l plastic	1.	0.5 1.0 -
.00	ES3						10.58	1.90		MADE GROUND: Bla brown silty sand an tops and textiles.					Ш	2.0
3.00	ES4							-							Ш	3.0 -
i.00	ES5							-							4.	4.0 - 4.5
.00	ES6							-							Ш	5.0 -
.00	ES7							- - - - - -							Ш	6.0 - 6.5
7.00	ES8							- - - -							* , , , ,	7.0 -
		Time (min) R) From	Chis (m)	Selling To (g Details	se (hh:mm)	Remarks						1	
To (m) 8.00 12.00	Details Diameter 200 150	From (m) 7.70	To (m) 12.00							tion Reason ed on engineers instru	uction			Last Upc 28/06/2		

		AUSEV GEOT				22-	ect No. ·0242	Client's	Name: Mobuoy DAERA/N Rep: Tetra Tec	NIEA	on Project Ph	ase Z		Borehole II BH678
Meth Cable Per		Plant Used Dando 3000	Top (m)	Base 12.		Coor	dinates	Final De	pth: 12.00 m	Start Date:	10/05/2022	Driller:	CC	Sheet 2 of 2 Scale: 1:40
							14.44 E 52.90 N	Elevation	n: 12.48 mOD	End Date:	11/05/2022	Logger:	SF	FINAL
Depth (m)	Sample / Tests	Field Record	s	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend	MADE GROUND: BI		cription	with nock	ets of	Backfill
.00	ES9					0.48	- 7.70		brown silty sand an tops and textiles. Dark brown silty fin	e to coarse SA		plastic, bee	er bottle	9.5
							-							14.0
	Water S			Chis		Detail	s	Remarks						
Casing I	Details	Water Added From (m) To (m 7.70 12.00)	(m)	To (n	n) Tir	me (hh:mm)							
12.00	150	7.70 12.00						Terminat	ion Reason				Last Up	dated
									d on engineers instru				28/06/2	

	C	AUSEW GEOT	ECH				ect No. 0242	Project Client: Client's		NIEA	on Project Ph	ase 2			BH67	
Meth Cable Per		Plant Used Dando 3000	Top (m)	_	e (m) .00		dinates 34.40 E	Final De	epth: 12.00 m	Start Date:	16/05/2022	Driller:	СС		heet 1 Scale: 1	
							55.68 N	Elevatio	in: 12.34 mOD	End Date:	16/05/2022	Logger:	SF	_	FINA	۸L
Depth (m)	Sample / Tests	Field Record	s	Casing Depth (m)	Water Depth (m)	Level mOD	Depth (m)	Legend	MADE GROUND: CO		cription			Water	Backfil	1
						12.04	0.30									
0.50	ES1					11.84	- 0.50		MADE GROUND: Do cobble content, frag	gments of plas	stic, glass, timbe	r and red b	orick.			0.5
							-		Gravel is subangula MADE GROUND: Br	own slightly s	andy slightly gra	velly SILT v	vith			
1.00	ES2						Ĺ		fragments of plastic subangular to subro			arse. Grave	el is			1.0
1.00	E32								-							1.0
							-									
							-									1.5
							-									
2.00	ES3						F									2.0
						9.94	2.40		MADE GROUND: Br							2.5
							-		fine to coarse. Grav	el is subangul	ar to subrounde	d fine to co	oarse.			
							-									
3.00	ES4						F									3.0
							-									
							-									3.5
						8.64	3.70		MADE GROUND: BI	ack silty very g	gravelly fine to c	oarse SANI	D with			
4.00	ES5						_		low cobble content subrounded fine to				gular to			4.0
							-									
							-									
							-									4.5
							-									
5.00	ES6						F									5.0 -
							[
																5.5
							-									
						6.54	5.80		MADE GROUND: Da							
5.00	ES7						-		silty CLAY with frag black sandy subang							6.0
							-		timber, metal and g	lass.						
							-									6.5
							[
7.00	ES8						L									7.0
							-									
							-	KXXXXXX								
	Water S					Detail		Remarks								
ruck at (m) 8.00	Casing to (m) 8.00	Time (min) Rose to (20 7.60	m) From	(m)	To (ı	m) Tin	ne (hh:mm)									
Casing		Water Added														
To (m) 9.00	Diameter 200	From (m) To (m) 8.00 12.00														
13.00	150							Terminat	tion Reason				Last Upo	date	d	
								Terminate	d on engineers instru	ıction			28/06/2	າດາາ		

Metho Cable Perc	od	Plant Used Dando 3000	Top (m) 0.00	_	e (m) .00	24783	dinates 34.40 E 55.68 N	Client's Rep: Tetra Tech Final Depth: 12.00 m Start Date: 16/05/2022 Driller: CC Elevation: 12.34 mOD End Date: 16/05/2022 Logger: SF	Sheet 2 of 2 Scale: 1:40
Depth (m)	Sample /	Field Records		Casing Depth	Water Depth (m)	Level mOD	Depth (m)	Legend Description	ਬ ਲ Backfill
.00	ES9 Water strike at 8.00m			3.44	8.90	MADE GROUND: Dark grey and brown slightly sandy slightly gravelly silty CLAY with fragments of plastic, glass and metal with pockets of black sandy subangular to subrounded GRAVEL with high volume timber, metal and glass. Brown silty fine to coarse SAND	7.5 8.0 8.5 9.0 9.0 9.0 10.0 10.0 10.0		
						0.34	- 12.00	End of Borehole at 12.00m	12.5
uck at (m) C		r Strikes)) Time (min) Rose to (r 20 7.60	n) From		selling To (g Details m) Tim	e (hh:mm)	Remarks	14.0
Casing D		Water Added	_						

200			Proj	ect No.	Project	Name:		Tr	ial Pit ID
C C C	CALIS	EWAY	22	-0242		y Remediation Project Phase 2			
		EWAY GEOTECH	Coor	dinates	Client:			7	ГР601
			2/100	50.49 E	DAERA				
Method:						Representative:		She	eet 1 of 1
Trial Pitting				23.35 N	Tetra Te	ech		Sc	ale: 1:25
Plant:					Date:		Logger:		FINAL
13T Tracked Exc	cavator		13.48	8 mOD	23/11/	2021	LN		TINAL
Depth (m)		Field Records	Level	Depth (m)	Legend	Description		Nater	
	B2 ES1	Field Records	Level (mOD)	Depth (m)	Legend		with high cobble are and boulders ar	Water	1.0 — 1.5 — 2.0 — 3.5 — 4.0 — 4.5 —
				ļ					
				ļ					4
				<u> </u>				+	
Water	Strikes	<u> </u>	Ren	narks:	I				
Struck at (m)	Remarks	Depth: 1.00	- 1	groundwate	er encou	ntered			İ
		Width: 1.50							
		Length: 4.00							
		Stability:	Terr	mination R	eason		Last U	pdated	
						drock			V C C
		Stable	iern	ninated on p	ossible be	UIOCK	28/0	6/2022	14101

202			Proj	ect No.	Project	Name:		Tr	ial Pit ID
(A)	CALIS	EWAY	22	-0242		y Remediation Project Phase 2			
		EWAY GEOTECH	Coor	dinates	Client:			-	ГР602
			2/180	49.03 E	DAERA				
Method:				12.67 N		Representative:		Sh	eet 1 of 1
Trial Pitting					Tetra Te	ech		Sc	ale: 1:25
Plant:					Date:		Logger:		FINAL
13T Tracked Ex				8 mOD	29/11/	2021	LN		IIIVAL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
(m) 0.50	B2 ES1	Field Records	12.58	Depth (m)	Legend	•	o coarse GR.	AVEL	2.0 —
				<u> </u>					
Matar	Strikes		Ren	narks:					
Struck at (m)	Remarks	Depth: 1.00		groundwate	er encou	ntered			l
Struck at (III)	nemarks	Width: 1.50	,						
		Length: 4.10							
		Stability:	Terr	mination R	eason			Last Updated	
		Stable		ninated on re				28/06/2022	AGS
	I .		1				1		11 = 1 = 1 = 11

A N			Proi	ect No.	Project	t Name:		Т Т	rial Pit ID
A Real				-0242	1	y Remediation Project Phase 2			
	CAUS	EWAY GEOTECH		dinates	Client:				TP603
	(GEOTECH			DAERA				
Method:				13.55 E	Client's	s Representative:		SI	neet 1 of 1
Trial Pitting			4180	72.48 N	Tetra T	ech			cale: 1:25
Plant:				vation	Date:		Logger:		FINAL
13T Tracked E				9 mOD	23/11/	2021	LN		FINAL
Depth (m)		Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
(m) 0.50 1.00	ES1 ES2 ES3	24.39 23.79	0.70	Legend	MADE GROUND: Soft to firm brown slightly sandy sl with fragments of brick and clay pipe. Sand is fine to angular to subangular fine to coarse. MADE GROUND: Black DOMESTIC WASTE of plastic, metal, glass, and timber. 0.70m to 1.30m: Strong putrid odour MADE GROUND: Soft to firm black and dark grey slig SILT with plastic. Sand is fine to coarse. Gravel is sub subrounded fine to coarse.	household wa	CLAY I is	1.5 —	
3.00	ES4		22.19	2.90		MADE GROUND: Multicoloured DOMESTIC WASTE of clothing and household items. End of trial pit at 3.50m	of plastic, carpe	et,	3.0
									4.0 —
				[-
	er Strikes	Depth: 3.50		narks:	er enco	ntered			
Struck at (m)	Remarks	Width: 1.20	NO {	groundwat	er encou	mered			
		Length: 6.00							
		Stability:	Terr	mination R	leason		<u> </u>	Last Update	d -
							'		
		Stable	Term	ninated at so	cheduled o	depth		28/06/2022	MACHS

20			Proj	ect No.	Project	t Name:		Tria	al Pit ID
	CAUS	FWΔY	22-	-0242		y Remediation Project Phase 2			
		EWAY GEOTECH	Coor	dinates	Client:			Т	P604
			2480	91.16 E	DAERA	/NIEA s Representative:			
Method: Trial Pitting			4180	47.33 N	Tetra Te	•			et 1 of 1
Plant:			Fle	vation	Date:		gger:	Sca	le: 1:25
13T Tracked Exc	cavator			5 mOD	22/11/			F	INAL
Depth	Sample /	Field Records	Level	Depth	Legend	Description		Water	
(m)	Tests	Tiela Necoras	(mOD)	(m)	Zegena	MADE GROUND: Dark blackish grey silty very sandy angul	ar to	Š	
1.10	E51 E52 E53		22.66 22.16 21.76	1.50		MADE GROUND: Black DOMESTIC WASTE in a clay matrix timber, cobbles and brown to 1.50m: Putrid odour MADE GROUND: Black DOMESTIC WASTE in a clay matrix timber, cobbles and brick. 1.00m to 1.50m: Putrid odour MADE GROUND: Firm black and grey slightly gravelly sand sand is fine to coarse. Gravel is subangular to subrounded the to coarse GRAVEL. Sand is fine to coarse subrounded fine to coarse GRAVEL. Sand is fine to coarse.	oulder content, d rootlets Plastics, glass, dy silty CLAY. If fine to coarse.		1.5 —
3.00	ES4		20.86	2.80		MADE GROUND: Multicoloured DOMESTIC WASTE predo plastics, metal, clothes and timber. 2.80m to 3.50m: Putrid odour End of trial pit at 3.50m	minantly		3.0
									4.0
· ·	S. 11		Da-	aarks:					
Water Struck at (m)	Strikes Remarks	Depth: 3.50		narks: groundwat	er encou	ntered			
Struck at (III)	Actitation	Width: 1.10							
		Length: 6.00							
		Stability:	Terr	nination R	eason		Last Upo	lated	
		Stable	Term	ninated at so	heduled o	depth	28/06/2	022	AGS

			Proi	ect No.	Project	t Name:			Trial	Pit ID
- 201				-0242		by Remediation Project Phase 2				
	CAUS	EWAY EOTECH		dinates	Client:				ΤP	605
		EOTECH			DAERA	/NIEA				
Method:				54.23 E	Client's	s Representative:			Shee	t 1 of 1
Trial Pitting			41/9	15.85 N	Tetra Te	ech			Scale	e: 1:25
Plant:				vation	Date:		Logger:		FII	NAL
13T Tracked Ex				1 mOD	22/11/	2021	LN			VAL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water		
0.50 1.00 1.00	ES1 B5 ES2		11.61	(m)		MADE GROUND: Soft to firm brown slightly sandy sligh with low cobble content. Sand is fine to coarse. Gravel rounded fine to coarse of mixed lithologies. MADE GROUND: Firm to stiff black mottled blackish graslightly gravelly silty CLAY with fragments of brick, timb crockery. Sand is fine to coarse. Gravel is subangular to to coarse.	is subround ey slightly si per, glass an	SILT led to		1.0
3.00 3.00	B6 ES4		9.61	2.80	× × × × × × × × × × × × × × × × × × ×	Brownish grey silty fine to coarse SAND with medium content. Sand is fine to coarse. Cobbles and boulders a GFSD End of trial pit at 3.20m				3.0
				-						3.5 —
				-						4.0
										4.5 —
		<u> </u>	1	norks:						
Water Struck at (m)	Remarks	Depth: 3.20		narks: groundwat	er encou	ntered				
Struck at (III)	nemarks	Width: 0.70								
		Length: 4.00								
		Stability:	Terr	mination R	eason			Last Updat	ed	
		Unstable	Tern	ninated due	to pit wall	ls collapsing		28/06/202	2	AGS

			Proj	ect No.	Projec	t Name:			Tria	l Pit ID
	CALIS	EWAY		-0242		by Remediation Project Phase 2				
	CAUS	EWAY GEOTECH	Cooi	rdinates	Client:				TI	P606
		32012011	2479	96.85 E	DAERA					
Method:				30.11 N		s Representative:				et 1 of 1
Trial Pitting Plant:			Flo	vation	Tetra Tetra Tetra	ecn	Logger:		Sca	le: 1:25
13T Tracked E	xcavator			8 mOD	22/11/	2021	LN		F	NAL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		20	water	
0.50 0.50	B5 ES1					MADE GROUND: Soft to firm brown slightly sandy sli CLAY with fragments of red brick and boulder sized fi brick wall. Sand is fine to coarse. Gravel is subrounde	ragments of r	silty ed rse.		0.5 —
1.50	ES2		11.78	1.30		MADE GROUND: Firm to stiff dark brown and black g slightly gravelly silty CLAY with fragments of red brick timber and roots. Boulders of red brick, waste and co to coarse.	k, plastic, met	al,		1.5 —
2.50	ES3		10.08	- 3.00			ND with James			2.5 — — — — — 3.0 —
3.60 3.60	B6 ES4		9.48	3.60		Light brown very silty very gravelly fine to coarse SAN content. Gravel is subrounded fine to coarse. Cobble GFSD End of trial pit at 3.60m				3.5 —
				<u> </u>						-
										4.0
				-						4.5 — — —
				-					+	
Wate	er Strikes	Depth: 3.60		narks:	1			1		
Struck at (m)	Remarks	Width: 0.80	No	groundwat	er encou	intered				
		Length: 0.40								
		Stability:	Teri	mination R	eason			Last Upda	ted	
		Unstable		ninate due t		collapsing		28/06/20		AGS
	1		1		-		1			1 = 1 = [b]

			Proj	ect No.	Project	Name:		Т	rial Pit ID
	CALIS	EVAVAV		-0242		y Remediation Project Phase 2			
	CAUS	EWAY EOTECH	Coor	dinates	Client:				TP607
	C	BEOTECH			DAERA				
Method:				40.87 E 56.68 N		s Representative:			neet 1 of 1
Trial Pitting					Tetra T	ech		S	cale: 1:25
Plant:				vation	Date:		Logger:		FINAL
13T Tracked Ex				2 mOD	22/11/	2021	LN	4.	111V/AL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
				-		MADE GROUND: Soft to firm brown slightly sandy slig Sand is fine to coarse. Gravel is subrounded to rounde			_
				-			id inic to todisci		_
				[_
				-					_
0.50	ES1		10.02	0.60					0.5 —
			10.02	. 0.00		Light brown slightly gravelly fine to coarse SAND. Graviounded fine.	el is subrounded t	0	_
				Ė		GFSD			_
				ŀ					_
1.00	ES2			 					1.0
				[
				<u> </u>					
				<u> </u>					-
				[1.5 —
				-					_
				[
				-					_
2.00	ES3			-					2.0 —
				[=
									_
				-					
				-					2.5
2.60	B4			-					_
				[_
				-					_
				_					3.0
			7.52	3.10	1.	Find of brief with at 2 40ms		_	_
				-		End of trial pit at 3.10m			_
				[_
				-					-
				[3.5 —
				<u> </u>					
				-					-
				}					-
				F					4.0
				[
				<u> </u>					_
				[-
				-					4.5 —
				-					-
				[
				<u> </u>					
				-				+	
Wate	r Strikes	Depth: 3.10	1	narks:	1	1			
Struck at (m)	Remarks	Width: 0.80	No	groundwat	er encou	ntered			
		Length: 4.00							
			T	mination R	Poncor.		1	Inda+-	d = ==
		Stability:						Jpdate	
		Stable	Sche	eduled deptl	h		28/0	06/2022	AGS

			1		1	Name:		Trial Pit ID
	CAUS	SEWAY GEOTECH		-0242 dinates	Client:	y Remediation Project Phase 2		TP608
	(GEOTECH			DAERA,	/NIEA		000
Method:				01.74 E 01.56 N		Representative:		Sheet 1 of 1
Trial Pitting					Tetra Te			Scale: 1:25
Plant: 13T Tracked Ex	veavator			vation D mOD	Date: 25/11/	Logger 2021 LN	:	FINAL
Depth	Sample /		Level	Depth				ū
(m)	Tests	Field Records	(mOD)	(m)	Legend	Description MADE GROUND: Reinforced CONCRETE.		
0.50 1.00 1.20	ES1 ES2 B4		7.15 6.40	1.80		MADE GROUND: Greyish brown very gravelly fine to coarse SAI low cobble content. Gravel is subrounded to rounded fine to co Cobbles are subrounded to rounded. With plastics. Firm to stiff lightly brown slightly sandy slightly gravelly SILT with cobble content. Sand is fine to coarse. Gravel is subrounded fine coarse. Cobbles are rounded. GFSD Grey slightly silty slightly gravelly fine to coarse SAND. Gravel is	th low e to	10 -
2.00	ES3 B5	Seepage at 2.1m	4.80	2.60		subrounded to rounded fine to medium. GFSD Light brown silty fine SAND. GFSD		2.0 –
3.00	B6		3.90	3.50		End of trial pit at 3.50m		3.0 -
				- - - - -				4.0 —
				-				
				-				4.5
				-				
				-				
				-				
				<u> </u>				
	r Strikes	Depth: 3.50	Ren	narks:				
Struck at (m) 2.10	Remarks	S 1.00						
2.10	Seepage at 2	Length: 3.00						
		Stability:	Terr	nination R	eason		Last Upda	ted =
		Unstable	Colla				28/06/20	

			Proj	ect No.	Project	t Name:		Tr	ial Pit ID
	CALL	CEW/AV	22	-0242	Mobuc	oy Remediation Project Phase 2			
	CAU	SEWAY GEOTECH	Coor	dinates	Client:				ГР609
			2479	21.89 E	DAERA				
Method: Trial Pitting			4176	90.37 N	Tetra To	s Representative:			eet 1 of 1
Plant:			Ele	vation	Date:	Logge	r:	50	ale: 1:25
13T Tracked E	Excavator			6 mOD	25/11/				FINAL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
			(-	200000000	MADE GROUND: Reinforced CONCRETE.			
			7.86	0.20		MADE GROUND: Grey angular fine to coarse GRAVEL.		-	_
				[Who all one of angular line to course divives.			-
0.50	ES1		7.66	0.40		MADE GROUND: Black and grey very silty sandy subangular to fine to coarse GRAVEL with medium cobble and boulder conte			0.5 —
				-		boulders of bitmac, fragments of brick, plastics, timber, carpet			-
				-		Sand is fine to coarse.			-
				-					_
1.00	ES2			-				•	1.0
		Water strike at 1.00m	6.96	1.10		MADE GROUND: Dark brown and grey very clayey very sandy f			_
				-		coarse GRAVEL with medium cobble and boulder content, frag red brick, glass, breeze blocks, plastic, metal, rope and textiles			=
						fine to coarse.			_
				-					1.5 —
				[_
									_
2.00	502								2.0
2.00	ES3			-					2.0 —
									_
									_
			5.56	2.50					2.5 —
2.60	B4					MADE GROUND: Black WASTE of plastic, glass, metal and timb	er.		-
			5.36	2.70	× ×	Light brown and grey silty gravelly fine to coarse SAND wit low			
				-	× × ×	content. Gravel is subrounded to rounded fie to coarse. Cobble subrounded to rounded.	es are		=
3.00	ES4			-	× × ×	GFSD			3.0
		Water strike at 3.10			× × ×			•	
				-	* * *				=
				[×.~×°.×				_
3.60	B5		4.46	3.60	×.°×° ×	<u> </u>			3.5 —
				ļ		End of trial pit at 3.60m			=
				<u> </u>					-
				-					4.0 —
				-					-
				<u> </u>					
				<u> </u>					
				-					4.5 —
				-					
				ŀ					-
				}					-
\A/c+	er Strikes		Ren	narks:					
Struck at (m)		Depth: 3.60	1	groundwat	er encou	ntered			
1.00	Water stri								
3.10	1.00m Water stri	- 0-	T	mination R	Poaco:		l not 11-	data	
	3.10	Unstable				ls collapsing	28/06/		1
		Olistable	liern	mateu uue	ro hir MgI	is coughsing	Z6/U0/	2022	14107

			Proj	ect No.	Project	t Name:		Ti	ial Pit ID
A A	CALIS	EWAY	22	-0242	Mobuc	y Remediation Project Phase 2			
		EWAY GEOTECH	Coor	dinates	Client:			,	TP610
No adh a di			2478	89.62 E	DAERA				
Method: Trial Pitting			4176	64.87 N	Tetra Te	s Representative:			eet 1 of 1
Plant:			Ele	vation	Date:	Logg	er:		cale: 1:25
13T Tracked E	Excavator			5 mOD	25/11/		, -		FINAL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
. ,				-	000000000000000000000000000000000000000	MADE GROUND: Reinforced CONCRETE.			
			8.41	0.25					_
			0.41	0.23		MADE GROUND: Firm brown mottled grey sandy very gravel low cobble and boulder content. Sand is fine to coarse. Grav			-
0.50	ES1			-		subrounded to rounded fine to coarse. Cobbles and boulder subrounded to rounded.	s are		0.5 —
									-
0.80	ES2		7.96	0.70		MADE GROUND: Black BITMAC with layers of rounded fine t	o coarse		
0.80	E52			-		GRAVEL.			
			7.66	1.00		MADE GROUND: brown silty very sandy subrounded to rour	ded fine to		1.0
						coarse GRAVEL with high cobble and boulder content. Sand coarse. Cobbles and boulders are subrounded to rounded.	is fine to		_
				-					_
				-					-
				-					1.5 —
				-					_
				-					-
2.00	ES3			-					2.0 —
				-					-
			6.46	2.20	× × × ×	Brown gravelly very silty fine to coarse SAND with medium of			
				-	*×. *.	content. Gravel ia subrounded to rounded fine to coarse. Co subrounded to rounded.	bbles are		
			6.16	2.50	× × ×	GFSD Brown mottled orange and dark brown silty slightly gravelly	fine to		2.5 —
					× × ×	coarse SAND with low cobble content. Gravel is subrounded fine to coarse. Cobbles are subrounded to rounded.	to rounded		
				-	× × ×	GFSD			_
				-	× × ×				-
3.00 3.00	ES4 ES5			-	* * * * *				3.0 —
				-	*.°×° *				_
				-	× × ×				-
			5.16	3.50	*.°×° *	End of trial pit at 3.50m			3.5 —
				[End of that pit at 0.0011			-
				<u> </u>					
				<u> </u>					-
				<u> -</u> -					4.0
				-					
				<u> </u>					-
				<u> </u>					4.5 —
				<u>-</u>					*.5 — —
				-					-
				<u> </u>					
				-					
	er Strikes	Depth: 3.50	l	narks:					
Struck at (m)	Remarks	Width: 1.20	No a	ground wa	ter encou	untered			
		Length: 4.00							
		Stability:	Terr	nination F	Reason		Last Up	date	
		Stable	Sche	eduled dept	h		28/06/2	2022	AGS

			Proj	ect No.	Project	t Name:		Т	rial Pit ID
	CALIC	TW/AV		-0242		by Remediation Project Phase 2			
	CAUS	EWAY GEOTECH	Coor	dinates	Client:				TP611
		SEOTECH			DAERA	/NIEA			
Method:				82.78 E	Client's	s Representative:		Sł	neet 1 of 1
Trial Pitting				94.45 N	Tetra T			S	cale: 1:25
Plant:				vation	Date:		Logger:		FINAL
13T Tracked Ex				7 mOD	24/12/	2021	LN		TINAL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
0.50 1.00	ES1 ES2	Water strike at 3.60m	7.37 6.97	1.00 1.40 3.80	Legend	MADE GROUND: Black very silty sandy subangular to su coarse GRAVEL with low cobble and boulder content, fragmen pottery, wire, brick and timber. Sand is fine to coarse. MADE GROUND: Black very silty sandy subangular to su coarse GRAVEL with medium cobble and boulder conte fragments of plastic, pottery and glass. 1.00m to 1.40m: Oily odour MADE GROUND: Black WASTE of predominantly plastic of timber, wire, glass, and textiles, vehicle battery, bottl chemical drums.	ubrounded fine to nt, with	e	1.5 — 2.0 — 3.5 — 4.0 — 4.5 —
				-					-
				<u> </u>					-
				[
				-					
Water	Strikes		Ren	narks:	1	l			
Struck at (m)	Remarks	Depth: 3.80		-					
3.60	Water strike	width: 1.50							
	3.60m	Length: 4.00							
		Stability:	Terr	mination R	Reason		Last	Jpdate	d
		Stable	Tern	ninated at so	cheduled o	depth	28/0	06/2022	AGS

A N			Proi	ect No.	Project	t Name:		Т	rial Pit ID
	CALL	CEVAVAV	1	-0242		by Remediation Project Phase 2			
	CAU	SEWAY GEOTECH	Cooi	rdinates	Client:				TP612
		GEOTECH	2470	77.48 E	DAERA				
Method:				551.30 N		s Representative:			neet 1 of 1
Trial Pitting Plant:				vation	Tetra T			S	cale: 1:25
13T Trackd Ex	cavator			7 mOD	24/11/	Logg /2021 LN	ger:		FINAL
Depth	Sample /	Field Records	Level	Depth	Legend	Description		Water	
(m)	Tests		7.47	(m)		MADE GROUND: Brown and grey silty sandy angular to suba to coarse GRAVEL with medium cobble and boulder content of brick and timber. Sand is fine to coarse. Cobbles and bould subrounded. MADE GROUND: Black sandy gravelly SILT with low cobble a	, fragments ders are nd boulder	y	- - - -
1.00	ES1	Seepage at 0.50m		-		content, fragments of plastic, red brick, rubber, chain, rope, plastic, concrete, rebar. Cobbles and boulders are rounded.	crockery,	•	0.5 — — — — —
1.00				-					
				-					- - -
2.00	ES3		5.47	2.40		Davida MADE COUNTY Fire bound to the late of a line to	and the CLAV		2.0 —— — — —
				-		Possible MADE GROUND: Firm brown slightly sandy slightly with roots and rootlets. Sand is fine to coarse. Gravel is subrest to medium.			2.5 — — — —
3.00	ES4			-					3.0
				-					3.5 — — — —
			3.87	4.00		End of trial pit at 4.00m			4.0
				-					4.5 — — —
				-					
			\pm		\pm				
	er Strikes	Depth: 4.00		narks:		*			
Struck at (m) 0.50	_	KS 1.50	Har	na aug insp	еспоп рі	t excavated to 1.20m			
U.5U	Seepage 0.50m	at							
		Stability:	Teri	mination R	leason		Last Up	date	d 2 -
		Stable		ninated at so		depth	28/06/		

	A		Proi	ect No.	Project	t Name:		Т	rial Pit ID
8				-0242		by Remediation Project Phase 2			indi i i i i i
	CAU	SEWAY GEOTECH		dinates	Client:			l	TP613
		GEOTECH			DAERA	/NIEA		l	
Method:				59.57 E	Client'	s Representative:		Sh	eet 1 of 1
Trial Pitting			41/6	510.67 N	Tetra T	ech			cale: 1:25
Plant:				vation	Date:	Logge	er:		FINAL
13T Tracked E	xcavator			6 mOD	24/11/	(2021 LN			FINAL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
0.50	ES1			-		MADE GROUND: Bluish grey and brown sandy silty angular fir GRAVEL with low cobble and boulder content, fragments of p pottery, wire, brick and timber. Sand is fine to coarse.			- - - 0.5
1.00	ES2		5.56	1.00		MADE GROUND: Black very silty sandy subangular to subroun coarse GRAVEL with medium cobble and boulder content, fra			1.0 —
			5.16	1.40		plastic, pottery and glass. Sand is fine to coarse. MADE GROUND: Black DOMESTIC waste predominantly plasti	cs with		- - -
						timber, wire, glass, textiles, vehicle battery, engine oil and bot			1.5 — — —
									2.0
				-					- - -
				-					2.5 — — — —
									3.0
		Water strike at 3.60	2.76	3.80				•	3.5 — — —
			2.70	-		End of trial pit at 3.80m			4.0 —
				-					4.5 —
				-					4.3
				-					-
			<u> </u>		\perp				
	er Strikes	Depth: 3.80	Ren	narks:					
Struck at (m)		S 4.50							
3.60	Water strik	Length: 4.00							
	3.00		-	minc# 5	lanca:-		100011	det-	<u> </u>
		Stability:		mination R			Last Up		البا
		Stable	Tern	ninated at so	cheduled o	depth	28/06/2	2022	AGS

		Proi	ect No.	Proiec	t Name:		Trial Pit ID	
	CALL	CEVAZAN		-0242		by Remediation Project Phase 2		
	CAU	SEWAY GEOTECH	_	dinates	Client:			TP614
		GEOTECH			DAERA	/NIEA		
Method:				36.74 E 95.59 N	Client'	s Representative:		Sheet 1 of 1
Trial Pitting					Tetra T			Scale: 1:25
Plant:				vation	Date:	Logge	er:	FINAL
13T Tracked E		1		4 mOD	25/11/	(2021 LN		
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description	Water	
0.50	ES1		6.54	- 0.60		MADE GROUND: Soft to firm brown sandy gravelly SILT with I content. Sand is fine to coarse. Gravel is subrounded to round coarse. Cobbles are subrounded to rounded.	ed fine to	0.5
1.00	ES2			-		MADE GROUND: Black WASTE of shredded plastic intersected sandy gravelly silt on one side of pit. 0.60m to 1.60m: Putird odour	s with	1.0 —
			5.54	1.60	a alta al alta alta a alta al alta alta	Firm brown pseudo fibrous PEAT.		1.5 —
2.00	ES3		4.94	2.20	24. X 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2	Bluish grey and brown very sandy silty subrounded to rounde		2.0 —
		Water strike at 2.7m		-		coarse GRAVEL with medium cobble content. Sand is fine to c Cobbles are subrounded to rounded. RTD	oarse.	2.5 —
2.80 2.80	B5 ES4		4.34	2.80	ax: °°x°	End of trial pit at 2.80m		3.0
				- - - - - -				3.5 —
				-				4.0
				- - - - - -				4.5 —
				-				- - -
			<u> </u>					
	er Strikes	Depth: 2.80		narks: water nine	at origin	al location, move and redig, pipe fixed		
Struck at (m) 2.70	Water strik	we at Width: 1.50	HIC	water hihe	at Origin	iai iocation, move and redig, pipe fixed		
	2.7m	Length: 4.00						
		Stability:	Terr	nination R	leason		Last Upda	ted
		Unstable	Colla	apse			28/06/202	22 AGS

			Proi	ect No.	Project	Name:		Tria	l Pit ID
8				-0242	1 -	y Remediation Project Phase 2			
	CAUS	SEWAY GEOTECH	-	dinates	Client:	,		TF	615
	(GEOTECH			DAERA	/NIEA			
Method:				69.54 E	Client's	Representative:		Shee	t 1 of 1
Trial Pitting				99.80 N	Tetra T	ech		Scal	e: 1:25
Plant:				vation	Date:	Logger:		FI	NAL
13T Tracked E		1		8 mOD	30/12/	2021 SC			IVAL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description	Water		
(m) 0.50 2.00	ES1 ES2 ES3	Water inflow at 1.20	6.48	0.50		MADE GROUND: Soft brown sandy gravelly CLAY with high cobble content. Sand is fine to coarse. Gravel is subangular to subrounded f to coarse. MADE GROUND: Grey silty angular fine to coarse GRAVEL with piece concrete, plastic silage bags, brick, timber, paving slabs, reinforcing t and large subrounded boulders. Sand is fine to coarse.	fine es of		1.5 — 1.5 — 2.0 — 3.5 — 4.0 — 4.0 — —
				-					4.5
Wate	er Strikes		Ren	narks:	1			1_	
Struck at (m)	Remarks	Depth: 3.60							
1.20	Water inflo	w at Width: 1.50							
	1.20	Length: 4.50							
		Stability:	Teri	mination R	leason	La	ast Upda	ted	
		Unstable	Tern	28/06/202)6/2022 AGS				

A.N			Proi	ect No.	Project	t Name:			rial Pit ID
	CALIC			-0242	1 -	by Remediation Project Phase 2			
	CAUS	SEWAY GEOTECH	Coor	rdinates	Client:			\dashv	TP616
		SEOTECH			DAERA	/NIEA			
Method:				867.26 E	Client's	s Representative:		SI	neet 1 of 1
Trial Pitting				62.39 N	Tetra Te			S	cale: 1:25
Plant:	_			vation	Date:		Logger:		FINAL
13T Tracked E				8 mOD	29/11/	2021	SC		1111/7.
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
		Field Records		1.50	Legend	MADE GROUND: Firm to stiff light brown sandy gravelly low cobble content, plastic sheeting, timber, red brick a concrete and tarmac. Sand is fine to coarse. MADE GROUND: Grey sandy slightly silty angular fine to with fragments of timber, brick and rubble. Sand is fine the same stiff of the same sheet and the same sheet and same sheet	o coarse GRAVE	n of	1.0 — 1.5 — 2.0 — 3.5 — 4.0 — 4.0 — 4.0
									4.5 —
	er Strikes	Depth: 3.30	1	narks:	er once	ntered			
Struck at (m)) Remarks	Width: 1.40	I NO	groundwat	ei eiicou	illered			
		Length: 4.20							
		Stability:	Teri	mination R	leason		last	t Update	d -
						la sallanain a			
i		Unstable	Tern	ninated due	to pit wall	is collapsing	28	3/06/2022	14166

			Proj	ect No.	Project	Name:		Tria	l Pit ID
	CALI	CEVAVAN		-0242	1	y Remediation Project Phase 2			
	CAUS	SEWAY GEOTECH	Coor	dinates	Client:			Т	P617
	(GEOTECH			DAERA	/NIEA			
Method:				31.35 E	Client's	Representative:		She	et 1 of 1
Trial Pitting				62.43 N	Tetra Te			Sca	le: 1:25
Plant:				vation	Date:	Logge	r:	F	INAL
13T Tracked Ex		1		0 mOD	29/11/	2021 SC			IIIVAL
Depth (m)	Sample / Tests	Field Records Water strike from surface	Level (mOD)	Depth (m)	Legend	Description MADE GROUND: Firm to stiff light brown sandy silty gravelly C		vater	
0.50	ES1			-		low cobble content, fragments of tarmac and concrete.			- - - 0.5 —
				-					- - - -
1.00	ES2			-					1.0
				- - - - - - -					1.5 — — — —
2.00	ES3		5.00	2.40					2.0 —
		Water strike at 2.50m	5.00	-		Greyish brown sandy fine to coarse GRAVEL with high cobble of Cobbles are rounded. RTD	content.		2.5 —
3.00	ES4			-					3.0 —
			3.80	3.60		End of trial pit at 3.60m			3.5 — — —
				-					4.0
				-					4.5 — — — — —
		<u> </u>		<u> </u>					
	Strikes	Depth: 3.60	Ren	narks:					
Struck at (m) 2.50	Remarks Water strik	S 140							
	2.50m	Length: 4.30							
0.00	Water stri		Terr	nination R	eason		Last Upda	ited	
	from surfa	Unstable				s collapsing	28/06/20		AGS

				ect No. -0242	1 -	: Name: by Remediation Project Phase 2		Т	rial Pit ID
	CAU	SEWAY GEOTECH	-	rdinates	Client:				TP618
		GEOTECH			DAERA				0_0
Method:				18.16 E		s Representative:		Sł	neet 1 of 1
Trial Pitting				'12.45 N	Tetra Te			S	cale: 1:25
Plant:				vation	Date:		ger:		FINAL
13T tracked E		<u> </u>	Level	2 mOD Depth	26/11/	2021 LN		-	
(m)	Sample / Tests	Field Records	(mOD)	(m)	Legend	Description		Water	
0.50	ES1					MADE GROUND: Grey slightly silty angular fine to coarse G medium cobble content. Sand is fine to coarse. Cobbles are			05
2.00	E53		6.72	1.20		MADE GROUND: Dark brown clayey sandy subangular to su fine to coarse GRAVEL with fabric, plastic pipe, concrete blo straps. Sand is fine to coarse.			15 —
			5.82	2.10		MADE GROUND: Grey slightly gravelly fine to coarse SAND fabric, metal pipes, rebar, bin bags of domestic waste and r Gravel is subangular to subrounded fine to coarse			2.5 —
3.00	ES4	Seepage at 3.8m						•	3.5 —
4.00	ES5		4.02	3.90	PXXXXXX	Light brown fine to coarse SAND.		1	4.0
7.00	133			-		GFSD			4.0 —
			3.72	4.20		End of trial pit at 4.20m			_ _
				-					_
				<u> </u>					4.5
				-					_
				-					_
				-					_
								\pm	
	er Strikes	Depth: 4.20	Ren	narks:					
Struck at (m		(S 120							
3.80	Seepage at	3.8m Length: 4.20							
		Stability:	Tore	mination R	eason		Last U	ndato	d = -
		Stable	Sche	eduled depth	n		28/0	5/2022	AUS

			Proi	ect No.	Droiec	t Name:		-	rial Pit ID
-801				-0242	1	by Remediation Project Phase 2			IIIai Fit ID
	CAUS	EWAY EOTECH		rdinates	Client:				TP619
	——-G	SEOTECH	Cool	rainates	DAERA				013
Method:	<u> </u>		2477	71.62 E		s Representative:		c	heet 1 of 1
Trial Pitting			4177	'83.81 N	Tetra T				Scale: 1:25
Plant:			Ele	vation	Date:		Logger:		
13T Tracked Ex	cavator		10.0	3 mOD	29/12/	2021	SC		FINAL
Depth	Sample /	Field Records	Level	Depth	Legend	Description	ļ.	ater	
Depth (m)	Sample / Tests	Field Records	9.53	Depth (m)	Legend	MADE GROUND: Medium dense light brown sandy stoarse GRAVEL with high cobble content. Sand is finare angular. MADE GROUND: Grey sandy subangular to subrount GRAVEL with waste including timber, plastics, plastic metal, bags of rotting food, polystyrene and large botto coarse. End of trial pit at 4.10m	e to coarse. C	obbles arse s,	0.5 — 1.0 — 1.5 — 2.0 — 3.0 — 4.0 — 4.5 — 4.5 —
144 .	Chuile		Don	narks:					
	Strikes	Depth: 4.10	Ker	narks:					
Struck at (m)	Remarks	Width: 1.20							
		Length: 4.10							
		Stability:	Teri	mination R	leason		T	Last Update	ed E
						donah			
		Unstable	Tern	ninated at so	cneduled o	пертп		28/06/2022	14166

			Pro	ect No.	Project	t Name:			rial Pit ID
A ROA				-0242	1 -	by Remediation Project Phase 2		'	
	CAU	SEWAY GEOTECH		dinates	Client:				TP620
		GEOTECH			DAERA				
Method:				′59.47 E	1	s Representative:		SI	neet 1 of 1
Trial Pitting			4177	'83.02 N	Tetra T				Scale: 1:25
Plant:			Ele	vation	Date:		Logger:		
13T Tracked (Excavator		9.8	4 mOD	29/11/	2021	SC		FINAL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
(111)	lests		(IIIOD)	- (111)		MADE GROUND: Light brown sandy gravelly silty CLAY v	with high cobb	le	
						content. Sand is fine to coarse. Gravel is subangular to to coarse.	subrounded fii	ne	
				-					
				-					-
0.50	ES1			-					0.5 —
				-					_
				-					
			8.94	0.90		MADE GROUND: Black WASTE containing timber, plasti			_
1.00	ES2			-		peat compost, concrete and nylon string. (Acrid smell)	c, ciristillas [[ccs,	1.0
				-					-
				-					-
				-]
				-					1.5 —
				-					-
				-					
2.00	ES3			-					2.0
				-					_
				-					-
				[-					2.5 —
				-					_
									-
				-					
3.00	ES4			[3.0
				-					_
				-					-
		Water strike at 3.30m						•	-
			6.44	3.40		End of trial pit at 3.40m			3.5
				-					_
				-					-
				-					-
				-					4.0
				-					
				-					-
				-					-
				-					4.5 —
				-					4.5
				<u> </u>					-
				-					-
				<u> </u>	1				
147 -	or Ctribes		Ros	narks:					
Struck at (m)	t er Strikes) Remark	Depth: 3.40	Kei	a. n3.					
3.30	Water strik	ke at Width: 1.40							
	3.30m	_	_						
		Stability:	Ter	mination R	Reason		Las	st Update	ed
		Unstable	Terr	ninated on c	concrete		2	8/06/2022	AGS

			Droi	ect No.	Droine	t Name:			rial Pit ID
				-0242	1	y Remediation Project Phase 2		'	riai Pit ID
	CAUS	EWAY EOTECH			Client:				TP621
	———G	EOTECH	Coor	dinates	DAERA				11 021
Method:			2477	51.61 E		s Representative:		CI	neet 1 of 1
Trial Pitting			4179	32.15 N	Tetra Te				cale: 1:25
Plant:			Ele	vation	Date:		Logger:		
13T Tracked Exc	cavator		10.32	2 mOD	01/12/		SC		FINAL
Depth	Sample /	Field Records	Level	Depth	Legend	Description		Water	
(m)	Tests		(mOD)	(m)		MADE GROUND: Firm brown sandy gravelly CLAY with	medium co		
				-		content, fragments of wire and some plastic. Sand is fi	ne to coars	e.	-
				[
				-					_
				[0.5 —
			0.63	0.70					
			9.62	0.70		MADE GROUND: Grey sandy rounded fine to coarse G large fragments of concrete and red brick. Sand is fine		peat,	
				-		large magnitudes of concrete and red brick. Said is line	to coarse.		_
				-					1.0
				<u> </u>					_
				<u> </u> -					
				Ė					_
				-					1.5 —
				-					-
				[
				-					_
				F					2.0
				-					_
				[
				-					_
				Ē.					2.5 —
				-					_
				[
				Ė					_
				-					3.0
				Ė					
				-					_
				Ė					_
				-					3.5 —
			6.72	3.60	*****	Light brown sandy fine to coarse GRAVEL. Sand is fine	to coarse.		
				}		RTD			
				-					-
				<u>-</u> 					4.0
			6.22	4.10		End of trial pit at 4.10m			
				-					_
				-					-
				-					4.5 —
				-					
				-					_
				-					-
			<u> </u>						
	Strikes	Depth: 4.10	- 1	narks: groundwat	er encou	ntered			
Struck at (m)	Remarks	Width: 1.60	140 8	o. Gariawat	.cr cricou				
		Length: 4.30							
		Stability:	Terr	nination R	eason			Last Update	d
		Unstable	Term	ninated at so	cheduled o	depth		28/06/2022	AGS

A-N			Proi	ect No.	Project	t Name:	-	rial Pit ID
	CALIC			-0242		by Remediation Project Phase 2		
	CAUS	EWAY GEOTECH		dinates	Client:			TP622
		EOTECH			DAERA	/NIEA		
Method:				22.35 E	Client's	s Representative:	S	heet 1 of 1
Trial Pitting			41/8	92.55 N	Tetra T	ech	9	Scale: 1:25
Plant:				vation	Date:	Logger	:	FINAL
13T Tracked I				7 mOD	03/12/	2021		FINAL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description	Water	
						MADE GROUND: Soft brown sandy gravelly CLAY. Sand is fine to Gravel is subangular to subrounded fine to coarse.	coarse.	_
			7.27	0.20	X	Grey slightly silty fine to coarse SAND.		4
					× × ×	GFSD		_
0.50	FC1			ŀ	* × ×			0.5
0.50	ES1			[××××			0.5
				-	x × x			_
				-	× ×			_
1.00	ES2			_	× × ×			1.0
1.00	E32			-	× × ×			1.0
				<u> </u>	× × ×			-
				ļ.	× × ×			-
				E	x			1.5 —
				<u> </u>	××××			_
				-	× ×			_
			5.67	1.80	**************************************	Grey slightly silty sandy subrounded fine to coarse GRAVEL wit I		_
2.00	ES3				a × , a × ,	cobble content. Sand is fine to coarse. Cobbles are subrounded. RTD		2.0 —
2.00				-	a X , a X)			_
				[a X			-
			F 07	2.40	a X			_
			5.07	2.40	××××	Brown slightly silty fine to coarse SAND. GFSD		2.5 —
					× × ×			_
				-	× × ×			_
				[× × ×			
3.00	ES4			- -	×××			3.0
				[×			_
				ŀ	× × ×			
				-	××			_
				-	××°			3.5 —
				-	×××			_
				[××××			
					× × ×			_
				-	××××			4.0
			3.37	4.10	, x ^ .:	End of trial pit at 4.10m		-
				<u> </u>]
				-				-
				<u>-</u>				4.5
				[
				Ė				-
				<u> </u>				-
***	tor Ctuiles -		Pon	narks:				
Struck at (m	ter Strikes) Remarks	Depth: 4.10		narкs: groundwat	ter encou	ntered		
	,	Width: 1.60						
		Length: 4.30						- I-
		Stability:		mination R			Last Update	
l		Unstable	Sche	eduled dept	h		28/06/2022	

			Proj	ect No.	Project	Name:		Tri	al Pit ID
	CALIS	SEVA/AV	1	-0242	Mobuc	y Remediation Project Phase 2			
	CAUS	EWAY GEOTECH	Coor	dinates	Client:			7	P624
		BEOTECH		84.48 E	DAERA	/NIEA			
Method:				46.04 N	1	s Representative:		She	eet 1 of 1
Trail Pitting					Tetra Te	ech		Sc	ale: 1:25
Plant:				vation	Date:		Logger:		INAL
13T Tracked Ex				9 mOD	02/12/	2021	SC		114712
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
0.50 1.00 2.00	ES1					MADE GROUND: Soft to firm greyish brown sandy gracobble content. Sand is fine to coarse. Gravel is subar subrounded fine to coarse. Cobbles are subangular.	avelly CLAY with Ingular to		1.5 —
400			4.49	3.30		MADE GROUND: Black WASTE of predominantly plasi	itcs.		3.5 —
4.00	ES5		3.79	4.00		End of trial pit at 4.00m			4.0
				<u> </u>					_
				-					-
				-					4.5
				<u> </u>					-
				-					-
				<u> </u>					-
				<u> </u>					-
***	- Ct-:!		Por	narks:					
Struck at (m)	Remarks	Depth: 4.00	- 1	narкs: groundwat	er encou	ntered			
Juliuck at (III)	nemarks	Width: 1.60							
		Length: 4.30							
		Stability:	Terr	mination R	eason		La	st Updated	
		Unstable	Sche	eduled depth	n		2	28/06/2022	AGS

			Proi	ect No.	Droiec	t Name:		Т.	rial Pit ID
- 80A				-0242	1	by Remediation Project Phase 2		•	I I al FILID
	CAUS	SEWAY GEOTECH			Client:				TP626
	(GEOTECH	Coor	dinates	DAERA				020
Method:			2478	02.28 E		s Representative:		C I	neet 1 of 1
Trial Pitting			4179	97.58 N	Tetra To				cale: 1:25
Plant:			Ele	vation	Date:		ogger:		caic. 1.25
13T Tracked (Excavator			5 mOD	23/11/				FINAL
Depth	Sample /	Field Records	Level	Depth	Legend	Description		Water	
(m)	Tests		(mOD)	(m)		MADE GROUND: Firm brown sandy gravelly SILT with frag	gments of glass	>	
				ļ.		and crockery. Sand is fine to coarse. Gravel is subangular fine to coarse.	to subrounded		-
				[inie to coarse.			
			16.85	0.40					_
0.50	ES1			-		MADE GROUND: Firm black and brown sandy gravelly SIL waste including timber, glass, organic material, laminate			0.5 —
				-		mattress, plastic bucket, cobbles and boulder. Sand is fin- Gravel is subangular to subrounded fine to coarse.	e to coarse.		-
				-		Graver is subuniquial to subrounded line to course.			_
				[
1.00	ES2			-					1.0
				E					-
				-					-
				ļ.					-
				E					1.5 —
				-					-
				-					_
				[-
			15.35	1.90		MADE GROUND; Firm to stiff brown sandy gravelly SILT w	vith fragments of		-
2.00	ES3			F		timber, plastic, blocks, boulders and cobble. Sand is fine is subrounded to rounded fine to coarse.			2.0
						is subrounded to rounded line to course.			
				-					_
				-					_
				[2.5 —
				-					-
				E					
				-					=
3.00	ES4			-					3.0
				E					-
				-					-
				-					
			13.75	- 3.50					3.5 —
			1 20.75	ļ		End of trial pit at 3.50m			-
				[-
				<u> </u>					-
				-					40
				ļ ⁻					4.0 —
				<u> </u>					_
				[-
				<u> </u>					-
				ŧ					4.5
				[
				}					_
				-					-
	ter Strikes	Depth: 3.50	1	narks:	er enco	ntered			
Struck at (m)) Remarks	Width: 1.50	I NO	groundwat	er encou	illeled			
		Length: 5.00							
		Stability:	Teri	mination R	leason		Last Up	date	d
		Stable	Tern	ninated at so	cheduled o	depth	28/06/		
	1		1				1		

A-N			Proi	ect No.	Project	t Name:		Т	rial Pit ID
A 200				-0242	1	by Remediation Project Phase 2			
	CAUS	SEWAY		dinates	Client:				TP628
		GEOTECH	Cool	umates	DAERA				020
Method:			2478	20.28 E	1	s Representative:		CL	neet 1 of 1
Trial Pitting			4180	62.25 N	Tetra T				cale: 1:25
Plant:			Ele	vation	Date:		Logger:		cuic. 1.23
13T Tracked E	xcavator			1 mOD	23/11/	2021	LN		FINAL
Depth	Sample /	Field Records	Level	Depth	Legend	Description	ļ	Water	
(m)	Tests		(mOD)	(m)	××××	MADE GROUND: Firm brown slightly sandy slightly gr	avelly SILT. San		
				-		fine to coarse. Gravel is subangular to subrounded fir			=
				-					
0.50	ES1			-					0.5 —
			15.11	0.60		MADE GROUND: Firm dark grey and brown slightly sl	ightly gravelly S	SILT.	-
				-		Gravel is subangular to subrounded fine to coarse.	0 - 7 0 7 -		-
				-					_
1.00	ES2			-					1.0
				<u> </u>					-
				[-
			14.41	1.30		MADE GROUND: Black and dark brownish grey gravel			-
				-		domestic waste including plastic, timber, metal, carpe fencing, textiles. Gravel is subangular to subrounded			-
				[teriorig, textiles. Graver is suburigation to subtrouring a	inic to course.		1.5 —
				-					_
				E					_
				-					-
2.00	ES3			-					2.0
				[
				-					_
				Ė					_
				-					2.5
				ŀ					
				-					
				-					-
3.00	ES4			-					3.0
				-					-
				[
				-					_
			12.21	3.50		End of trial pit at 3.50m			3.5 —
				}					-
				[-
				}					
				<u> </u>					4.0
				}					-
				<u> </u>					-
				-					
				-					4.5
				ŀ					-
				[-
				<u> </u>					-
				-					
14/04-	er Strikes		Ren	narks:					
Struck at (m)	Remarks	Depth: 3.50	1	groundwat	er encou	ntered			
, ,		Width: 1.50							
		Length: 4.00							
		Stability:	Teri	mination R	leason		La	ast Update	d
ĺ		Stable	Tern	ninated at so	cheduled o	depth		28/06/2022	AGS

			Dro	ject No.	Droine	t Name:			rial Pit ID
				-0242		by Remediation Project Phase 2		'	IIAI PIL ID
	CAU	SEWAY GEOTECH			Client:				TP629
		GEOTECH	Cool	rdinates	DAERA				11 023
Method:			2477	768.96 E		s Representative:		CI	neet 1 of 1
Trial Pitting			4180	041.80 N	Tetra T				cale: 1:25
Plant:			Ele	vation	Date:		ger:		icaic. 1.25
13T Tracked	Excavator			5 mOD	06/12/				FINAL
Depth	Sample /	Field Records	Level	Depth	Legend	Description		Water	
(m)	Tests		(mOD)	(m)		MADE GROUND: Stiff brown sandy gravelly CLAY. Sand is fi	ne to coarse.	3	
				-		Gravel is subangular to subrounded fine to coarse.			
				E					
				-					_
0.50	ES1			-					0.5 —
				-					-
				Ė					
			7.95	0.90					_
1.00	ES2			F		MADE GROUND: Waste- Black bin bags with household wan hydrocarbon visible.	sie.		1.0
				-		0.90m to 4.10m: Putrid odour			-
		Inflow at 1.40m		-				•	
				-					1.5 —
				-					-
				-					_
				-					
2.00	ES3			-					2.0
				<u> </u>					_
				-					-
				Ė					
				-					2.5 —
				-					_
									_
				-					_
3.00	ES4			-					3.0
				-					_
									_
				-					_
				-					3.5 —
				-					_
				-					-
				-					-
				_					4.0
			4.75	4.10		End of trial pit at 4.10m		-	_
				-		End of that pit at 4. form			-
				-					-
				[4.5
				-					-
				[-
				-					-
				-					
\\/at	ter Strikes		Ren	narks:					
Struck at (m		Depth: 4.10							
1.40	Inflow at 1								
		Length: 1.50							
		Stability:		mination R			Last U		
		Unstable	Tern	minated due	to collaps	e	28/06	5/2022	AGS

0-0			Proj	ect No.	Project	t Name:		Т	rial Pit ID
	CALIC	EVA/AV		-0242	1	by Remediation Project Phase 2			
	CAUS	EWAY	Cool	rdinates	Client:				TP630
		SEOTECH			DAERA	/NIEA			
Method:				322.44 E	Client's	s Representative:		Sh	eet 1 of 1
Trial Pitting			4181	.93.45 N	Tetra T	ech			cale: 1:25
Plant:			Ele	vation	Date:		Logger:		
13T Tracked Ex	xcavator		14.5	2 mOD	23/11/	2021	LN		FINAL
Depth	Sample /	Field Records	Level	Depth	Legend	Description	1	Water	
0.50 1.00	ES1 ES2	Field Records	(mOD)	0.50	Legend	MADE GROUND: Soft to firm bluish grey slightly sand SILT with domestic waste, wipes, plastic, glass, textile Sand is fine to coarse. Gravel is subangular to subrout MADE GROUND: Multicoloured DOMESTIC WASTE of metal, glass and pockets of shredded plastic, pockets SILT. 0.50m to 3.00m: Putrid odour	es, timber and canded fine to coa	ly ans. arse.	1.0
3.00	ES4		11.52	3.00		End of trial pit at 3.00m			3.0 —
				- - - - - -					3.5 — — —
				- - - -					4.0 —
									- - -
				-					4.5 — — — —
			1.5-	norks:					
	r Strikes	Depth: 3.00	- 1	narks: groundwat	er encou	ntered			
Struck at (m)	Remarks	Width: 2.00	INO	51 Ouriuwdl	ci encou	mered			
		Length: 5.00							
			T	minatia - ^	0255		1.	c+ losds+	, =
		Stability:		mination R				st Update	
		Stable	Tern	ninated at so	heduled o	depth	2	28/06/2022	AGS

200			Proj	ect No.	Project	Name:		Trial Pit ID
(A)	CALIS	EWAY	22	-0242	1	y Remediation Project Phase 2		
		EWAY GEOTECH	Cooi	dinates	Client:			TP631
			2/177	76.24 E	DAERA			
Method:			1	18.06 N		Representative:		Sheet 1 of 1
Trial Pitting					Tetra Te			Scale: 1:25
Plant:				vation	Date:		gger:	FINAL
13T Tracked Exc				3 mOD	02/12/	2021 SC		
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description	Nater	
		Water from surface				MADE GROUND: Soft brown slightly sandy slightly silty CL.	AY. Sand is fine	
			4.83	0.10	×	to coarse. Grey sandy slightly silty subangular fine to coarse GRAVEL	with high	
				-	×	cobble content. Sand is fine to coarse. RTD		_
				-	×	טוא		-
0.50	ES1			-	×			0.5 —
			4.33	0.60	×××	Light brown slightly silty gravelly fine to coarse SAND with		-
				-	× × ×	content. Gravel is subangular to subrounded fine to coarse GFSD	2.	
				-	× × ×			
1.00	B2			-	× × ×			1.0
					× × ×			_
				-	× × ×			-
				-	× × ×			-
				[× × ×			1.5
				-	× × ×			
			3.23	1.70	X. X.	End of trial pit at 1.70m		-
								-
				-				-
				-				2.0
				-				
				-				
				-				_
				-				2.5 —
				-				-
				-				
				-				3.0
								-
				-				-
				-				-
				[3.5 —
				-				_
				[-
				-				-
				-				
				E				4.0
				-				
				-				
				-				-
				-				4.5
				Ė				1
				-]
				-				
Water	Strikes	Depth: 1.70	Ren	narks:	•		L .	
Struck at (m)	Remarks	Wideland 100						
0.00	Water fror surface	Length: 4.10						
	Januace		T	mination D	02525		I not I lack	od = =
		Stability:		mination R			Last Upda	
		Stable	Tern	ninated due	surface w	ater	28/06/202	

A-N			Proi	ect No.	Project	Name:			Trial Pit ID
	CALIC			-0242	1 -	by Remediation Project Phase 2			
	CAUS	SEWAY GEOTECH		dinates	Client:				TP632
	(FOIECH			DAERA	/NIEA			
Method:				16.34 E	Client's	s Representative:		9	Sheet 1 of 1
Trial Pitting			4185	29.56 N	Tetra Te	ech			Scale: 1:25
Plant:				vation	Date:		Logger:		FINAL
13T Tracked Ex				1 mOD	06/12/	2021	SC		
		Field Records		Depth (m)	Legend	Description		Water	
Depth (m) 0.50 1.00 3.00	ES1 ES2 ES4	Field Records Water inflow at 2.90m	7.04 4.14	Depth (m) 0.30 3.20			d is fine to coar andy gravelly Cl large fragment	LAY es of	1.0
				-					-
				-					
				-					
Wate	r Strikes	David 200	Ren	narks:	1				1
Struck at (m)	Remarks	Depth: 3.20							
2.90	Water inflov	w at Width: 1.60							
	2.90m	Length: 4.50							
		Stability:	Terr	nination R	eason		La	st Updat	ed
		Unstable	Tern	ninated on c	oncrete		2	28/06/202	2 AGS

			Proj	ect No.	Project	Name:		Tr	ial Pit ID
	CALIS	EWAY		-0242	1	oy Remediation Project Phase 2			
	CAUS	EWAY EOTECH	Coor	dinates	Client:			7	гР633
	G	ILOTECTI	2476	91.83 E	DAERA				
Method:				29.33 N		s Representative:		She	eet 1 of 1
Trial Pitting					Tetra Te	ech	1-	Sc	ale: 1:25
Plant:			1	vation	Date:	2024	Logger:		FINAL
13T Tracked Ex			/./a	8 mOD	02/12/	2021	SC		
(m)	Sample / Tests	Field Records	(mOD)	Depth (m)	Legend	Description		Water	
1.00	ES1					MADE GROUND: Firm brown sandy gravelly CLAY. San	d is fine to coar	se.	0.5 —
2.00	ES2		5.68	2.10		MADE GROUND: Grey waste- ash, plastic, and brick ir gravelly fine to coarse SAND. 2.10m to 3.40m: Hydrocarbon	n a matrix of gre	·y	2.0
3.00	ES3			-					3.0 —
			4.38	3.40	i. 3li. 3li	Soft brown PEAT.			4
				-	2116 2116 2 216 216	SOIL STOWN FEAT.			3.5 —
4.00	ES4		4.18	3.60		Grey silty fine to medium SAND. GFSD			4.0 —
			3.58	- 4.20	× × ×	End of trial pit at 4.20m			
				-		End of that pit at 4.20m			-
				-					4.5
Wate	r Strikes	1	Ren	narks:		<u> </u>			
Struck at (m)	Remarks	Depth: 4.20		groundwat	er encou	ntered			
		Width: 1.60							
		Length: 4.30							
		Stability:	Teri	mination R	eason			st Updated	
		Stable	Sche	eduled depth	n		2	28/06/2022	AGS

			Proi	ject No.	Project	t Name:		Tr	ial Pit ID
A				-0242	-	by Remediation Project Phase 2		"	
	CAU	SEWAY GEOTECH		rdinates	Client:				TP634
	(GEOTECH			DAERA	/NIEA			
Method:				754.14 E	Client's	s Representative:		Sh	eet 1 of 1
Trial Pitting			4185	30.93 N	Tetra T	ech			cale: 1:25
Plant:				vation	Date:		ogger:		FINAL
13T Tracked E				9 mOD	02/12/	2021 S	iC		TINAL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
				(m)	Legend	MADE GROUND: Grey sandy slightly silty fine to coarse of fragments of brick, timber, plastic and packaging straps. coarse.	Sand is fine	h e to	1.5 — 2.0 — 2.5 — 3.0 — —
4.00	ESS	Major influx of water at 3.40m	3.49	3.40		MADE GROUND: Black WASTE including timber, brick, rusheeting material. 3.40m to 4.00m: Hydrocarbon odour	ubber, timbe	er,	3.5 —
			3.43			End of trial pit at 4.00m			- - -
				- - - - - -					4.5 — —
				ļ					_
				-					-
	r Strikes	Depth: 4.00	Rer	narks:					
Struck at (m)	Remark	S							
3.40	Major influ water at 3.4	IX OI							
		Stability:	Ter	mination R	leason		L	ast Updated	
		Unstable	sche	eduled depth	า			28/06/2022	AGS

			Proi	ject No.	Project	t Name:		Trial Pit ID
201				-0242	1 -	by Remediation Project Phase 2		IIIai Fit ID
	CAUS	EWAY GEOTECH			Client:			TP635
		GEOTECH	Cool	rdinates	DAERA			055
Method:			2477	767.80 E	1	s Representative:	C	heet 1 of 1
Trial Pitting			4186	38.67 N	Tetra T			Scale: 1:25
Plant:			Ele	vation	Date:	Logger:		
13T Tracked	Excavator			8 mOD	03/12/			FINAL
Depth	Sample /	Field Records	Level	Depth	Legend	Description	Water	
(m)	Tests		(mOD)	(m)		MADE GROUND: Soft light brown silty CLAY.	>	
				-				
				-				
			8.88	0.40		AND COOLING OF THE PROPERTY OF		_
0.50	ES1			Ė		MADE GROUND: Black shredded WASTE of plastics, tin, timber, g some fibrous textiles. (Very strong putrid smell)	giass and	0.5
				-				
				-				
1.00	ES2			-				1.0
								-
				-				
				[
				-				1.5 —
				-				_
								-
				-				
2.00	ES3							2.0
2.00	133			-				_
				Ė				-
				-				-
				-				25
								2.5
				-				_
								-
2.00	504			-				-
3.00	ES4			E				3.0
				-				
				Ė				-
				-				
				-				3.5 —
				-				-
				-				-
4.00	ES5			-				4.0
			5.18	4.10		End of trial pit at 4.10m		
				-				
								-
				-				4.5 —
				E				
]
				-				4
Wat	ter Strikes	Depth: 4.10		narks:			<u> </u>	
Struck at (m) Remarks	Width: 1.60	No	groundwat	er encou	ntered		
		Length: 4.20						
		Stability:	Ter	mination R	leason	T	Last Updat	ed = =
							28/06/202	
Í		Stable	Scue	eduled deptl			20/00/202	* \!\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

			Droi	ect No.	Project	t Name:			Trial Pit ID
201				-0242	1	by Remediation Project Phase 2			IIIai FILID
	CAU	SEWAY GEOTECH	-		Client:				TP636
		GEOTECH		rdinates	DAERA				555
Method:			2476	72.62 E	1	s Representative:			Sheet 1 of 1
Trial Pitting			4180	69.16 N	Tetra T				Scale: 1:25
Plant:			Ele	vation	Date:		Logger:		
13T Tracked I	Excavator			1 mOD	30/11/	2021	SC		FINAL
Depth	Sample /	Field Records	Level	Depth	Legend	Description		Water	
(m)	Tests		(mOD)	(m)		MADE GROUND: Soft brown CLAY.		>	
				-					
				-					
0.50	ES1			-					0.5 —
			6.51	0.60		MADE GROUND: Black SHREDDED WASTE of predom	inantly plastic	С.	_
1.00	ES2			-					1.0
				-					-
				-					
				-					
				-					1.5 —
				-					-
				-					=
		Water inflow at 1.80m		-				•	_
2.00	ES3			-					2.0
2.00	133			-					_
									-
				-					-
				=					
									2.5 —
				-					
									_
			4.21	2.90	××××	Grey sandy slightly silty subrounded to subrounded f	fine to coarse		1 -
3.00	ES4			-	×××	GRAVEL with high cobble content. Sand is fine to coa subrounded.	rse. Cobbles a	are	3.0
				-	×××	RTD			
				-	×××				_
					×××				-
				-	× × ×				3.5 —
			3.51	3.60	, , , , , ,	End of trial pit at 3.60m			
				-					
				ŧ					
				-					4.0
				-					
				-					
				-					4.5 —
				-					-
				-					
				[
				-					
Wat	er Strikes		Ren	narks:	1	<u> </u>			
Struck at (m)		Depth: 3.60							
1.80	Water inflo								
	1.80m								
		Stability: Unstable	Teri	mination R	Reason			Last Updat	
		Tern	ninated due	to pit wal	ls collapsing		28/06/202	2 AGS	

0.0			Proi	ect No.	Proiec	t Name:		Т	rial Pit ID
	CALI	CEVA/AV		-0242		by Remediation Project Phase 2			
	CAUS	SEWAY	-	rdinates	Client:			1	TP637
	(GEOTECH			DAERA	/NIEA			
Method:				640.97 E	Client'	s Representative:		Sł	neet 1 of 1
Trial Pitting			41/4	136.03 N	Tetra T	ech		S	cale: 1:25
Plant:			Ele	vation	Date:		gger:		CINIAI
13T Tracked E	xcavator		7.9	5 mOD	30/11/	2021 SC	•		FINAL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
(m) 0.50 1.00 3.00	ES1 ES2	Strong inflow at 1.80m	7.05	(m) 		MADE GROUND: Firm brown sandy gravelly CLAY with fra brick and plastic. Sand is fine to coarse. Gravel is subangu subrounded fine to coarse. MADE GROUND: Grey sandy silty fine to coarse GRAVEL wangular cobbles, fragments of concrete plastic pipe, concrete in to coarse. 0.90m to 3.70m: Strong hydrocarbon odour Grey slightly silty sandy rounded fine to coarse GRAVEL wangular cobbles, fragments of coarse GRAVEL wangular cobbles, fragments of concrete plastic pipe, concrete plas	vith many rete pipe. Sand	w •	2.0 — 2.5 — 4.0 — 4.5 — 4.5 — —
	C+!'		Par	narks:					
Wate Struck at (m)	er Strikes Remarks	Depth: 3.90	Ken	narks:					
1.89	Strong inflo								
1.09	1.80m	Length: 4.60							
		Stability:	Terr	mination R	Reason		Last Up	date	d = -
						la sellencia e			
İ		Unstable	Tern	nınated due	to pit wal	ls collapsing	28/06,	2022	141 FK

			Proj	ect No.	Projec	Name:		Т	rial Pit ID
	CALI	SEWAY	22	-0242	Mobuc	y Remediation Project Phase 2			
	CAUS	SEWAY GEOTECH	Cooi	dinates	Client:				TP638
		GLOTECTI	2474	10.43 E	DAERA				
Method:				38.07 N	1	s Representative:			eet 1 of 1
Trial Pitting Plant:				vation	Tetra T		Logger:	S	cale: 1:25
13T Tracked Ex	kcavator			3 mOD	01/12/		SC SC		FINAL
Depth	Sample /	Field Records	Level	Depth	Legend	Description		Vater	
(m)	Tests	Water entering from	(mOD)	(m)	×_^_	Soft brown sandy silty CLAY. Sand is fine to coarse.		*	
		surface		-	<u>×</u> _ <u>×</u>	ALV			
				-	×				_
					X_X_				-
0.50	ES1			-	×_*_				0.5
				-	×				_
					×				-
1.00	ES2		4.43	0.90	× × ×	Soft grey silty fine to coarse SAND with rootlets.			1.0
1.00	L32			-	× × ×	GFSD			_
					× × ×				-
				ŀ	× × ×				
			3.83	- 1.50	×.×î	End of trial pit at 1.50m			1.5 —
						End of that picat 1.50m			-
				-					_
				-					2.0
				-					_
									-
									2.5 —
				ŀ					-
				-					-
									3.0
									_
				-					-
				-					4
									3.5 —
				-					
				-					_
				-					-
				-					4.0
				<u> </u>					-
				-					+
				-					4.5
				<u> </u>					-
				-					+
				-]
	r Strikes	Depth: 1.50	Ren	narks:					
Struck at (m) 0.00	Remarks Water ente	5							
0.00	from surfa								
		Stability:	Teri	mination R	eason			Last Update	d I
		Unstable	Terr	ninated due	to pit wal	ls collapsing		28/06/2022	AGS

4-5			Proi	ect No.	Project	t Name:		1 1	rial Pit ID
	CALIC	SEVA/AV		-0242	1	y Remediation Project Phase 2			
	CAUS	SEWAY GEOTECH	Coor	dinates	Client:				TP639
	(JEUTECH			DAERA	/NIEA			
Method:				38.50 E 92.18 N		s Representative:		S	heet 1 of 1
Trial Pitting					Tetra T	ech		9	Scale: 1:25
Plant:				vation	Date:		Logger:		FINAL
13T Tracked Ex		Γ		1 mOD	01/12/	2021	SC		1111/12
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
0.50	ES1 ES2	Groundwater	4.31	2.40		MADE GROUND: Stiff light brown sandy silty CLAY content. Sand is fine to coarse. Cobbles are subrounded in the sam			1.5 —
3.00	ES4	encountered at 2.40m				SFSD 2.40m to 4.00m: Strong pungent odour			2.5 —
4.00	ES5		2.71	4.00	×U	End of trial pit at 4.00m			4.0
				-					
				<u> </u>					-
				}					-
				-					4.5 —
				<u> </u>					-
				-					-
				<u> </u>					-
	a		P-	nordes:					
Wate Struck at (m)	r Strikes Remarks	Depth: 4.00	Ren	narks:					
2.40	Groundwa	14/: Jale 1 CO							
	encountere								
	2.40m	Stability:	Teri	mination R	Reason			Last Update	ed
		Unstable	Tern	ninated at so	cheduled o	depth/pit walls collapsing		28/06/2022	

26		Proj	ect No.	Project	Name:		T	rial Pit ID	
	CAUS	FWΔY	22-	-0242		y Remediation Project Phase 2			
		EWAY GEOTECH	Coor	dinates	Client:	(AUE A			TP640
Method:			2475	93.78 E	DAERA,	Representative:		-	
Trial Pitting			4173	34.12 N	Tetra Te	•			neet 1 of 1 cale: 1:25
Plant:			Ele	vation	Date:		Logger:	-	icale. 1.25
13T Tracked Ex	cavator			7 mOD	30/11/		JC .		FINAL
Depth	Sample /	Field Records	Level	Depth	Legend	Description		/ater	
0.50 1.00	Tests ES1	Seepage at 1.00m	6.97	0.70	Legend	MADE GROUND: Soft to firm brown sandy gravelly CLA content, fragments of red brick and concrete. Sand is f Gravel is subangular to subrounded. Cobbles are angular to subrounded. Cobbles are angular based on the subrounded of the	ine to coarse. lar.		1.5 —
3.00	ES4		4.87	2.80	* * * * * * * * * * * * * * * * * * *	Greyish brown slightly silty fine to coarse SAND. GFSD			3.0
			3.97	3.70	<u> </u>	End of trial pit at 3.70m			4.0 —
				-					4.5 —
Water	Strikes	David 0.70	Ren	narks:	1			1	
Struck at (m)	Remarks	Depth: 3.70							
1.00	Seepage a								
	1.00m	Length: 4.60							
		Stability:		nination R			Last U	pdate	d
	Unstable Terminated du				to pit wall	s collapsing	28/06	5/2022	AGS

			Proj	ect No.	Project	Name:		Tri	al Pit ID
	CALIC	EVAVAY		-0242	1	y Remediation Project Phase 2			
$H \rightarrow H$	CAUS	EWAY EOTECH	Coor	dinates	Client:			7	P641
	G	LOTECTI	2474	73.64 E	DAERA				
Method:				07.41 N		Representative:		She	et 1 of 1
Trial Pitting					Tetra Te			Sc	ale: 1:25
Plant:				vation	Date:	Logge	er:		INAL
13T Tracked Exc	Sample /		6.45	mOD Depth	01/12/	2021 SC			
(m)	Tests	Field Records	(mOD)	(m)	Legend	Description		Water	
				_		MADE GROUND: Soft brown slightly sandy CLAY with low cob Sand is fine to coarse.	ble content.		_
									-
									-
			6.05	0.40		MADE GROUND: Black shredded WASTE containing plastic, til foam belts.	n, shoe and		0.5 —
				-		0.40m to 2.60m: Strong pungent odour			_
				-					-
				-					-
				_					1.0
				<u> </u>					4
				<u> </u>					-
				<u>-</u>					-
				<u>-</u>					1.5 —
				-					-
				-					=
]
				-					2.0
				-					-
				-					4
				-					2.5 —
			3.85	2.60	×××××	Greyish brown slightly silty fine to coarse SAND.			
				-	×××	GFSD			
				-	× × ×				-
				-	×××				3.0
				-	×××				
				-	××××				-
				-	××××				-
			2.85	3.60	x.×x				3.5 —
						End of trial pit at 3.60m			4
				-					-
				_					4.0
				<u>-</u>					4
				-					-
				<u>-</u>					4.5 —
				-					-
				-					
				-]
								_+	
Water		Depth: 3.60	Rem	narks:					
Struck at (m)	Remarks	Width: 1.60							
		Length: 4.50							
		Stability:	Terr	nination R	eason		Last Upo	lated	
		Unstable	Term	ninated due	to running	g sands	28/06/2	022	AGS

			Proj	ect No.	Project	t Name:	Т	rial Pit ID
	CALIC	CEVA/AV		-0242	1	by Remediation Project Phase 2		
H)	CAUS	SEWAY GEOTECH	Coor	dinates	Client:			TP642
		GEOTECH			DAERA	/NIEA		
Method:				10.09 E	Client's	s Representative:	Sł	neet 1 of 1
Trial Pitting			41/2	73.89 N	Tetra T	ech		cale: 1:25
Plant:			Ele	vation	Date:		ger:	FINIAL
13T Tracked Ex	kcavator		6.30	0 mOD	01/12/	2021 SC		FINAL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description	Water	
0.50	ES1	Inflow from 0.80m	5.50 5.10	1.20		Possible MADE GROUND: Stiff brown sandy CLAY. Sand is fit Brown sandy clayey rounded fine to coarse GRAVEL with locontent. RTD Grey silty fine to coarse SAND. GFSD Brown silty fine to coarse SAND. GFSD	ne to coarse.	1.5 —
2.00	ES3					Grap (Grap)		2.0 ——
			2.90	3.40	<u> </u>	End of trial pit at 3.40m		3.5 —
				-				4.5 —
	r Strikes	Depth: 3.40	Ren	narks:				
Struck at (m)	Remarks	5						
0.80	Inflow fro 0.80m	""						
	0.80m	Length: 4.80						
		Stability:	Teri	mination R	teason		Last Update	
		Unstable	Tern	ninated due	to pit wal	ls collapsing	28/06/2022	AGS

			Proi	ect No.	Proiect	Name:		Т	rial Pit ID
	CALIC	\=\A/A\/		-0242	1	by Remediation Project Phase 2			
	CAUS	EWAY	Cool	dinates	Client:				TP643
		GEOTECH			DAERA	/NIEA			
Method:				96.80 E	Client's	s Representative:		Sł	neet 1 of 1
Trial Pitting			4171	.84.08 N	Tetra T	ech			cale: 1:25
Plant:			Ele	vation	Date:		Logger:		
13T Tracked E	xcavator		7.3	4 mOD	26/11/	2021	SA		FINAL
Depth	Sample /	Field Records	Level	Depth	Legend	Description	!	Water	
(m)	Tests		(mOD)	(m)		MADE GROUND: Sandy slightly gravelly CAY with roots	s and rootlets.		
				-		is fine to coarse. Gravel is subangular to subrounded f	ine to coarse.		
			6.94	0.40		MADE COOLING Sharaldad DOMESTIC WASTE arranged		al.	-
0.50	ES1			-		MADE GROUND: Shredded DOMESTIC WASTE recover fine to coarse GRAVEL with plastic bags, plastic bottled			0.5 —
				-		glass, pipe and timber. Sand is fine to coarse.			-
				-					7
1.00	ES2			-					1.0
				-					-
				-					-
				-					-
									1.5 —
				-					1.3
				-					_
									-
				-					-
2.00	ES3			-					2.0
]
			5.04	2.30					
				-		Grey slightly gravelly fine to coarse SAND. Gravel is sul subrounded fine to medium.	bangular to		-
				-		GFSD			2.5 —
				-					-
				-					
				-					
3.00	ES4		4.34	3.00		End of trial pit at 3.00m			3.0
						End of that pit at 3.00m			-
				[-					_
				-					-
									3.5 —
				-					
				Ė					-
				-					_
				-					
									4.0
				-					
				Ė					-
				-					-
				-					4.5
				[
				-					
				-					-
			+	-					
Wate	er Strikes	Depth: 3.00	Ren	narks:	•				
Struck at (m)	Remarks	Width: 1.90							
		Length: 4.70							
			Torr	mination R	Pason		12	st Update	
Í		Unstable	iern	ıımatea due	to bit wal	ls collapsing	2	8/06/2022	AGS

0.0			Pro	ect No.	Projec	t Name:		rial Pit ID
	CALL	CEVAVAN		-0242		by Remediation Project Phase 2		
	CAU	SEWAY GEOTECH	Cool	dinates	Client:			TP644
		GEOTECH			DAERA	/NIEA		
Method:				58.56 E	1	s Representative:	S	heet 1 of 1
Trial Pitting				.57.78 N	Tetra T			Scale: 1:25
Plant:				vation	Date:	Logge	er:	FINAL
13T Tracked E		T		2 mOD	26/12/	/2021 SA		1111/12
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description	Water	
0.50	ES1 ES2	Seepage at 1.80m	3.92	2.10		Greyish brown slightly gravelly clayey fine to coarse SAND. Greyish brown slightly gravelly clayey fine to coarse SAND. Greysham to subrounded. GFSD Light greyish brown slightly silty fine to coarse SAND.	avel is ▼	1.0 —
2.50	ES4		3.32	2.70	X	Light greyish brown slightly silty fine to coarse SAND. GFSD End of trial pit at 2.70m		2.5 —
						End of that pit at 2.7 on		-
				-				3.0 —
				-				_
								- - -
				-				3.5 —
				-				-
				Ė				-
				-				4.0 —
				-				-
				Ė				-
				-				
				-				4.5 —
				Ė				-
				-				
				-				-
	r Strikes	Depth: 2.70	Rer	narks:				
Struck at (m) 1.80	Remark Seepage	(S						
1.00	1.80m	at						
		Stability:	Ter	mination R	Reason		Last Update	ed E
		Unstable				ls collapsing	28/06/2022	

			Pro	ject No.	Project	t Name:		Tr	ial Pit ID
	CALIC	TIM/AW		2-0242	1 -	by Remediation Project Phase 2			
	CAUS	EWAY GEOTECH	Coo	rdinates	Client:				TP645
		SECTECH			DAERA	/NIEA			
Method:				755.04 E	Client's	s Representative:		Sh	eet 1 of 1
Trial Pitting				998.23 N	Tetra T			Sc	cale: 1:25
Plant:				vation	Date:		Logger:		FINAL
13T Tracked Ex				8 mOD	03/12/	2021	SC		TINAL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
(m) 0.50 1.00	ES1 ES2		3.88 3.48	1.40		MADE GROUND: Soft to firm brown silty sandy CLAY wired brick and plastic. Sand is fine to coarse. Light brown silty gravelly fine to coarse SAND. Gravel is subrounded fine to coasrse. GFSD Grey silty slightly sandy angular fine to coarse GRAVEL of content. Sand is fine to coarse. Cobbles are angular.	subangular ton		10
3.00	ES4		2.08	3.20		End of trial pit at 3.20m			2.5 — — — — 3.0 — —
									4.0 —
				-					4.5 — — —
				<u> </u>				+	
Wate	r Strikes	De-th- 2.22	Rer	marks:	1	I			
Struck at (m)	Remarks	Depth: 3.20							
		Width: 1.60							
		Length: 4.10							
		Stability:	Ter	mination R	leason		Last	Updated	
		Unstable	Terr	minated due	to pit wal	ls collapsing	28	/06/2022	AGS

			Proi	ect No.	Proiec	t Name:		Т	rial Pit ID
	CALL	CEVAVAN		-0242		by Remediation Project Phase 2			
	CAU	SEWAY		dinates	Client:				TP646
		GEOTECH			DAERA	/NIEA			
Method:				74.76 E	Client'	s Representative:		Sł	neet 1 of 1
Trial Pitting			4189	24.32 N	Tetra T	ech			cale: 1:25
Plant:			Ele	vation	Date:		Logger:		CINIAI
13T Tracked E			4.9	3 mOD	03/12/	(2021	SC		FINAL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
(m) 0.50 1.00	ES1 ES2	Surface water inflow at 1.80m	3.13 2.53	1.80	13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MADE GROUND: Stiff light brown sandy gravelly silty CI fragments of red brick, plastic bags and timber. Sand is Gravel is suabngular to subrounded fine to coarse. Light brown silty sandy subrounded fine to coarse GRA' cobble content. Sand is fine to coarse. RTD Light grey slightly silty fine to coarse SAND. GFSD	fine to coarse	e	1.5 —
3.00	ES4		0.93	4.00		End of trial pit at 4.00m			3.0
				-					4.5 —
				-					_ _ _ _
Wate	er Strikes	<u> </u>	Ren	narks:	1	1			
Struck at (m)	Remark	Depth: 4.00							
1.80	Surface wa								
	inflow at 1.	80m Length: 4.10							
		Stability:	Teri	mination R	Reason		La	st Update	d
		Unstable	sche	eduled depth	h			28/06/2022	AGS
	1	5.15table	1 30,10	a acpti			1 '	-, -0, 2022	17 = 1 to [70]

0.0				Proje	ct No.	Project	t Name:		Т	rial Pit ID
	CALIC	TIA/AV			0242		by Remediation Project Phase 2			
	CAUS	EWAY SEOTECH		Coord	linates	Client:				TP647
		BEOTECH				DAERA	/NIEA			
Method:					39.55 E 27.08 N	Client's	s Representative:		Sł	neet 1 of 1
Trial Pitting						Tetra Te	ech		S	cale: 1:25
Plant:					ation	Date:		Logger:		FINAL
13T Tracked Ex					mOD	03/12/	2021	SC		
Depth (m)	Sample / Tests	Field Records		evel nOD)	Depth (m)	Legend	Description		Water	
0.50 1.00	ES1 ES2 ES3			9.92	- 1.50		MADE GROUND: Soft to firm brown sandy gravelly of brick and plastic. Sand is fine to coarse. Gravel is subrounded fine to coarse. MADE GROUND: Grey sandy subrounded fine to coarse fragments of brick, timber and plastic. 1.50m to 3.80m: Hydrocarbon odour	s subangular to	ments	1.5 —
4.00	ES5			1.62	3.80		Light brown silty fine to coarse SAND. GFSD End of trial pit at 4.10m			3.5 —
				-						4.5 — — — —
Water	Strikes			Rem	arks:	1	<u> </u>			
Struck at (m)	Remarks	Depth: 4.3								
		Width: 1.6								
		Length: 4.3	10							
		Stability:		Term	ination R	Reason			Last Update	d
		Unstable		sched	luled deptl	h			28/06/2022	AGS

			Proi	ect No.	Project	t Name:		-	rial Pit ID
- 20				-0242		by Remediation Project Phase 2			
	CAUS	SEWAY GEOTECH		dinates	Client:				TP648
		PEOLECH			DAERA	/NIEA			
Method:				99.33 E	Client's	s Representative:		S	neet 1 of 1
Trial Pitting			41/5	61.73 N	Tetra T	ech		9	icale: 1:25
Plant:				vation	Date:		Logger:	:	FINAL
13T Tracked Ex				2 mOD	20/04/	2022	LN		TINAL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
				-		MADE GROUND: Firm brown slightly sandy gravelly coarse. Gravel is subangular fine to coarse.	CLAY. Sand is	s fine to	_
			5.82	0.20		MADE GROUND: Brown sandy very clayey subround	led fine to co	narse	-
				-		GRAVEL with low cobble content, plastic pipes, wire rope, crockery, pockets of black organic waste and t	, glass bottle	es, tin,	-
						fine to coarse.	ree stumps.	Sallu is	0.5
				-					_
									-
				-					-
				-					1.0
									-
				<u> </u>					-
				<u> </u>					1.5 —
				-					-
			4.12	1.90		Dark greenish grey mottled black very silty fine to co	Oarso SAND		_
				_	× × ×	GFSD	Jaise SAND		2.0
				-	× × ×				
				-	× × ×				
					×××				_
				-	× ^ ×				2.5 —
					××				
				-	×××				_
				-	× × ×				-
					××××				3.0 —
				-	×××				-
				-	× × ×				-
					× × ×				3.5 —
				-	× × ×				_
				-	× × ×				-
		Heavy water strike at	2.12	3.90	×××				
		3.90	2.02	4.00		Brown sandy subrounded to rounded fine to coarse to coarse.	GRAVEL. Sai	nd is fine	4.0
				-		End of trial pit at 4.00m		/	-
				-					
				<u> </u>					-
				<u> </u>					4.5 —
				<u> </u>					
				-					_
				[-
			1						
Water Struck at (m)	Strikes Remarks	Depth: 4.00	Ren	narks:					
3.90	Heavy wat	er Width: 2.50							
	strike at 3.9								
		Stability:	Terr	nination R	Reason			Last Update	ed
		Unstable	Tern	ninated due	to pit wal	ls collapsing		28/06/2022	AGS

			Proj	ect No.	Project	Name:		Т	rial Pit ID
	CALIC	SEVA/AV		-0242	1	y Remediation Project Phase 2			
	CAUS	SEWAY GEOTECH		dinates	Client:				TP649
		JEOTECH			DAERA	/NIEA			
Method:				37.68 E 36.67 N	Client's	s Representative:		Sh	eet 1 of 1
Trial Pitting					Tetra T	ech		S	cale: 1:25
Plant:				vation	Date:		Logger:		FINAL
13T Tracked Exc				4 mOD	20/04/	2022	LN	_	11177
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
		Water strike at 3.00m	3.24	1.80		MADE GROUND: Firm light brown slightly sandy slight with medium cobble and boulder content. Sand is fine is subangular fine to coarse with fragments of red brit metal wire, breeze blocks, rope, tin, wire fencing, fabricarpet, polystyrene. Cobbles and boulders are angula carpet, polystyrene. Cobbles and boulders are angula light brown mottled orange very silty slightly gravelly SAND. Gravel is subangular fine. GFSD End of trial pit at 3.40m	e to coarse. Grav ck, plastic, timbe ric ground cover, r to subangular.	rel er,	1.5 — 2.0 — 3.0 — 4.0 — 4.5 — 4.5 —
	Strikes	Depth: 3.40	Ken	пагкѕ:					
Struck at (m) 3.00	Remarks Water strike	14/1-44L 1 50							
3.00	3.00m	Length: 5.00							
		Stability:	Teri	mination R	eason		Las	t Update	d E
		Unstable		ninated on r		nds		3/06/2022	ACC
	I	Olistable	l iein	miated OH [arming 2d	140	28	,, 00, 2022	11:16

			Proi	ect No.	Project	t Name:		Т	ial Pit ID
- 201			1	-0242		by Remediation Project Phase 2		"	idi i i i i i
	CAUS	EWAY		dinates	Client:				TP650
	G	EOTECH			DAERA	/NIEA			
Method:				99.20 E	Client's	s Representative:		Sh	eet 1 of 1
Trial Pitting			4175	23.22 N	Tetra Te	ech			cale: 1:25
Plant:				vation	Date:		Logger:		FINAL
13T Tracked Ex	cavator			3 mOD	20/04/	(2022	LN		FINAL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
(m)	Tests		5.48 5.28	1.50 - 1.70 - 3.00		MADE GROUND: Firm greyish brown mottled black s gravelly SILT with pockets of shredded plastic, red briboulder sized fragments of concrete. MADE GROUND: Multi-coloured shredded plastic wit fragments of concrete. 1.7m to 3.0m: Putrid odour	lightly sandy slig ick fragments, ti th boulder sized	htly n,	1.0 — 1.5 — 2.0 — 2.5 — 3.0 — 4.0 — 4.5 —
		· · · · · · · · · · · · · · · · · · ·	<u> </u>	<u> </u>					
	Strikes	Depth: 4.00		narks: groundwat	er encou	inetred			
Struck at (m)	Remarks	Width: 2.00	110 }	_o , oundwal	er encou	eaca			
		Length: 5.00							
		Stability:	Terr	nination R	eason		La	st Update	
		Unstable				ls collapsing		8/06/2022	ACC
		Olistable	lein	mateu due	ro hir Mall	is coughanik	4	.0/00/2022	14167

			Proi	ect No.	Proiect	: Name:		1 1	rial Pit ID
	CALI	SEVA/AV		-0242		y Remediation Project Phase 2			
	CAU	SEWAY GEOTECH	Coor	dinates	Client:				TP651
	`	GEOTECH		20.82 E	DAERA				
Method:				95.46 N		s Representative:			neet 1 of 1
Trial Pitting					Tetra Te	ech	D	9	scale: 1:25
Plant: 13T Tracked Ex	cavator			vation 2 mOD	Date: 20/04/	2022	Logger:		FINAL
Depth	Sample /	Field Besseds	Level	Depth	Legend	Description	LIV	Water	
(m)	Tests	Field Records	(mOD)	(m)	Legend	MADE GROUND: Firm light brown slightly sandy slight	ly gravelly SILT.		
		Seepage at 0.60m	5.22	0.60		MADE GROUND: Firm light brown mottled black sand ow cobble content. Sand is fine to coarse. Gravel is surounded fine to coarse. Cobbles are rounded and angifragments. O.6m to 2.1m: Slight hydrocarbon odour	ed fine to coars y gravelly SILT v ubrounded to	e.	1.5 —
			3.72	2.10		Brown slightly silty fine to coarse SAND. GFSD			2.5 —
		Water strike at 2.90m	2.92	2.90	· x.·. ^ · ·	End of trial pit at 2.90m			3.0
				-					3.5 —
				-					- - -
				- - - - - - - -					4.5 — — —
			1,	<u> </u>					
	Strikes	Depth: 2.90	Ren	narks:					
Struck at (m) 2.90	Remarks Water strik								
	2.90m	Length: 5.00							
0.60	Seepage 3		Terr	nination R	Reason		La	st Update	d E
	0.60m	Unstable				s collapsing		28/06/2022	
		Unstable	Iern	imated due	to bit mall	2 COLIADZILIA	2	20/06/2022	1,410.0

0-0			Proi	ect No.	Project	Name:			rial Pit ID
	CALIC	EVA/AV		-0242	1	y Remediation Project Phase 2			
	CAUS	EWAY	Cool	rdinates	Client:				TP652
	G	EOTECH			DAERA	/NIEA			
Method:				005.14 E	Client's	Representative:		SI	neet 1 of 2
Trial Pitting			41/6	86.14 N	Tetra Te	ech		5	cale: 1:25
Plant:			Ele	vation	Date:		Logger:		CINIAI
22T Tracked Ex	xcavator		10.1	6 mOD	23/05/	2022	LN		FINAL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
0.50	ES1		9.46	0.70		MADE GROUND: Light brown sandy gravelly SILT with I boulder content and fragments of plastic. Sand is fine t subangular to subrounded fine to coarse. Cobbles and angular of brick and concrete. MADE GROUND: Black and dark brown sandy gravelly volume of shredded plastic, timber, ceramics, glass, do brick, concrete, plastic oil drum, crisp packet dated 203 pipes.	o coarse. Gravel boulders are SILT with high mestic waste,		0.5 —
2.00	ES3								2.0 —
3.00	ES4								3.0 —
4.00	ES5								3.5 —
5.00	ES6								4.5 —
	r Strikes	David 0.00	Ren	narks:		<u> </u>			
Struck at (m)	Remarks	Depth: 6.00							
5.60	Water strike a								
	5.60m	Length: 5.00							
		Stability:	Teri	mination R	eason		Last	Update	
		Stable	Tern	ninated at so	heduled o	lepth	28/	06/2022	AGS

			Proj	ect No.	Project	Name:		Т	rial Pit ID
	CALIG	SEW/AV		-0242	1	by Remediation Project Phase 2			
HOH	CAUS	SEWAY GEOTECH	Cooi	rdinates	Client:				TP652
	(SLOTECH		005.14 E	DAERA				
Method:				686.14 N		s Representative:			eet 2 of 2
Trial Pitting					Tetra Te			S	cale: 1:25
Plant:				vation	Date:		Logger:		FINAL
22T Tracked E	Sample /	Γ	Level	6 mOD Depth	23/05/	2022	LN		
(m)	Tests	Field Records	(mOD)	(m)	Legend	Description		Water	
		Water strike at 5.60m	4.56 4.16		Legend	MADE GROUND: Black and dark brown sandy gravelly! volume of shredded plastic, timber, ceramics, glass, do brick, concrete, plastic oil drum, crisp packet dated 203 pipes. Bluish grey silty very gravelly fine to coarse SAND with and boulder content. Gravel is subrounded fine to coar boulders are subrounded. GFSD End of trial pit at 6.00m	mestic waste, .2, carpet and medium cobble		5.5 — 6.0 — 7.0 — 7.5 — 8.0 — 9.0 — 9.5 —
				-					_
				-					4
			1					+	
	r Strikes	Depth: 6.00	Ren	narks:					
Struck at (m)	Remarks	5							
5.60	Water strike 5.60m	Length: 5.00							
	3.00111	Stability:	Tom	mination R	03505		last	Update	, <u> </u>
	1	Stable	Tern	ninated at so	neduled o	depth	28,	06/2022	AGS

			Proj	ect No.	Project	Name:		Tria	al Pit ID
	CALISI	EWAY		-0242	Mobuo	y Remediation Project Phase 2			
	CAUSI	EOTECH	Coor	dinates	Client:			Т	P653
	01		2480	13.83 E	DAERA,				
Method:				71.93 N		s Representative:			et 1 of 2
Trial Pitting					Tetra Te			Sca	lle: 1:25
Plant: 22T Tracked Exc	cavator			wation 5 mOD	Date: 24/05/	Log . 2022 LN	ger:	F	INAL
Depth Depth	Sample /		Level	Depth				ē	
(m)	Tests	Field Records	(mOD)	(m)	Legend	Description		Water	
	ES1		8.75	1.60		MADE GROUND: Brown sandy gravelly SILT with occasional plastics and domestic waste, including plastic bottles, tinca of red brick, textiles, occasional cobbles and glass bottles. Scoarse. Gravel is subangular to subrounded fine to coarse. MADE GROUND: Black and brown sandy gravelly SILT with I content, shredded plastic, textiles, household waste, ceram metal wires, glass, mattresses, timber, vehicle tyres and car fine to coarse. Gravel is subangular to subrounded fine to cobbles are subangular. 1.60m to 4.00m: Hydrocarbon odour	ow cobble ics, bedding, pet. Sand is parse.		1.5 — 2.0 — 3.0 — 4.0 — 4.0 — - 4.0 — - - - - - - - - - - - - -
				-					4.5 — — — —
	Chailes		Por	narks:					
Struck at (m)	Strikes Remarks	Depth: 7.00	Ken	iai n3.					
7.00	Seepage at	Width: 1.50							
	7.00m	Length: 4.00							
		Stability:	Terr	nination R	eason		Last Upd	ated	
		Stable	Term	ninated due	to maximı	um reach of excavator	28/06/20		AGS

			Proj	ect No.	Project	: Name:		rial Pit ID
	CALIS	SEVA/AV	22-	-0242	Mobuc	y Remediation Project Phase 2		
-GH	CAUS	SEWAY GEOTECH	Coor	dinates	Client:			TP653
		BLOTECTI	2490	13.83 E	DAERA			
Method:				71.93 N		s Representative:	S	heet 2 of 2
Trial Pitting					Tetra Te		9	Scale: 1:25
Plant:				vation	Date:	Logger:		FINAL
22T Tracked Exc				5 mOD	24/05/	2022 LN		1 11 17 12
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description	Water	
		Seepage at 7.00m	3.35	7.00	E alle alle alle alle alle alle alle all	MADE GROUND: Brown sandy gravelly SILT with plastics, metal, glas timber. Sand is fine to coarse. Gravel is subangular to subrounded fit coarse. Brown pseudo-fibrous PEAT with decaying plant matter including trobranches, roots and rootlets. End of trial pit at 7.00m	s and ne to	5.5 —
Water	Strikes		Ren	narks:	1			
Struck at (m)	Remarks	Depth: 7.00						İ
7.00	Seepage a	Width: 1.50						
	7.00m	Length: 4.00						
		Stability:	Terr	nination R	eason	La	ast Update	ed 🔳
		Stable	Term	ninated due	to maxim	um reach of excavator	28/06/2022	AGS

0.0			Pro	ject No.	Proiect	t Name:		Т	rial Pit ID
	CALIC			2-0242		by Remediation Project Phase 2			
	CAUS	EWAY EOTECH	Coo	rdinates	Client:				TP654
	G	EOTECH			DAERA	/NIEA			
Method:				989.64 E	Client's	s Representative:		Sł	neet 1 of 2
Trial Pitting				662.45 N	Tetra Te	ech		S	cale: 1:25
Plant:				vation	Date:		Logger:		FINAL
22T Tracked E				9 mOD	23/05/	2022	LN		TINAL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
				-		MADE GROUND: Light brown sandy gravelly SILT witl content and occasional plastics. Sand is fine to coars	h medium cobble	;	_
			9.29	0.20		subangular to subrounded fine to coarse. Cobbles ar	e subangular		_
				-		MADE GROUND: Black, dark brown and grey sandy g volume of shredded plastic, shotgun shells (used), cu			_
				-		crockery. Sand is fine to coarse. Gravel is subangular to coarse			_
0.50	ES1			[to course			0.5 —
				-					_
				Ė					_
				-					_
1.00	ES2			-					1.0
				-					
				-					_
				[_
				-					1.5 —
				ŧ					
				-					_
				-					_
2.00	ES3			F					2.0
				-					-
				ŧ					
				-					
				-					2.5 —
				-					_
				-					_
				E		2.80m: Concrete slab			
3.00	ES4			-					3.0
				Ė					_
				-					_
				-					_
				[3.5 —
				-					_
				ŧ					=
				-					_
4.00	505			-					-
4.00	ES5			F					4.0
				ļ.					_
				-					_
				-					-
				ŧ					4.5
				<u> </u>					
				ļ					_
				[-
5.00	ES6				******				
	er Strikes	Depth: 6.60	Rei	marks:					
Struck at (m) 5.80	Remarks Seepage at 5.								
3.60	Seehage at 5.	Length: 5.00							
		Stability:	Ter	mination R	Reason		Las	st Update	d
		Stable	Teri	minated due	to maxim	um reach of digger		8/06/2022	
II.	- 1	1	1				1 ~	. ,	• T • T •

200			Proj	ect No.		Name:		Tria	l Pit ID
	CALIS	EWAY	22-	-0242	Mobuo	y Remediation Project Phase 2			
		EWAY GEOTECH	Coor	dinates	Client:			T	P654
			2/170	89.64 E	DAERA,				
Method:				62.45 N		Representative:		She	et 2 of 2
Trial Pitting					Tetra Te			Sca	le: 1:25
Plant:				vation	Date:		gger:	F	INAL
22T Tracked Exc				9 mOD	23/05/	2022 LN			
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
(m) 6.00	Tests	Seepage at 5.8m	3.69 2.99 2.89	5.80 - 6.50 - 6.60	Legend X Ala X X X X X X X X X X X X X X X X X X X	MADE GROUND: Black, dark brown and grey sandy grave volume of shredded plastic, shotgun shells (used), cutlen crockery. Sand is fine to coarse. Gravel is subangular to su to coarse Brown slightly sandy peaty SILT with decaying plant mate to coarse ALV Bluish grey silty fine to coarse SAND GFSD End of trial pit at 6.60m	lly SILT with high , timber and ibrounded fine	Water Market Mar	5.5 — 6.0 — 7.0 — 8.0 — 9.0 — 9.5 —
				ļ					Ⅎ
				<u> </u>					
	Strikes	Depth: 6.60	Ren	narks:					
Struck at (m)	Remarks	Wideb. 2.00							
5.80	Seepage at 5	Length: 5.00							
		Stability:	Torr	nination R	ason		Last Upd	ated	
									1
		Stable	Term	ninated due	to maximi	um reach of digger	28/06/20	022	ACHS

			Pro	ject No.	Project	t Name:		Т	rial Pit ID
201				2-0242	1	y Remediation Project Phase 2		•	ilai i i i i
	CAUS	EWAY EOTECH	_	rdinates	Client:				TP655
	——G	EOTECH			DAERA				
Method:			2479	997.73 E	1	s Representative:		Sh	neet 1 of 2
Trial Pitting			4176	657.38 N	Tetra T				cale: 1:25
Plant:			Ele	evation	Date:		Logger:		
22T Tracked Ex	xcavator		9.4	3 mOD	23/05/	2022	LN		FINAL
Depth	Sample /	Field Records	Level	Depth	Legend	Description		Water	
(m)	Tests		(mOD)	(m)		MADE GROUND: Light brown sandy gravelly SILT with	h medium co		
				-		content and shredded plastics. Sand is fine to coarse subangular to subrounded fine to coarse.	. Gravel is		1
						subangular to subrounded fine to coarse.]
				-					_
0.50	ES1			-					0.5 —
			8.83	0.60		MADE GROUND: Brownish black fine to coarse SAND	and subang	ular to	-
				-		subrounded fine to coarse GRAVEL with high volume	of plastic		-
				-		(shredded), red brick fragments, timber and metal. C subrounded. Pockets of sandy gravelly CLAY through .0.6m to 5.4m: Hydrocarbon odour becoming stronger			
1.00	ES2			-		.0.6m to 5.4m: Hydrocarbon odour becoming stronger	with depth		1.0
				-					4
				-					
				-					-
				-					-
				-					1.5 —
				-					4
				-					-
									-
2.00	ES3			-					2.0
				-					
				-					-
				-					2.5 —
				-					-
				-					
				-					
3.00	ES4			-					3.0
									-
									-
				-					-
									3.5 —
				-					_
				-					-
									-
				-					-
4.00	ES5			-					4.0
				-					
				-					-
				[-
				-					4.5 —
				[
				-					
				-					4
5.00	ES6		+	-					
	r Strikes	Depth: 6.00	Rei	marks:					
Struck at (m)	Remarks	100							
5.00	Seepage at 5.00m	Length: 4.00							
		Stability:	Ter	mination R	leason		Г	Last Update	d = -=
						donah.			
		Stable	Teri	minated at so	cheduled o	depth		28/06/2022	AGS

A-N			Pro	ject No.	Project	t Name:		Т	rial Pit ID
				2-0242	Mobuoy Remediation Project Phase 2				
	CAUS	SEWAY			Client:			1	TP655
		GEOTECH	Coo	rdinates	DAERA				" 055
Method:			2479	997.73 E		s Representative:			
Trial Pitting			4176	557.38 N	Tetra Te				neet 2 of 2
Plant:			Flo	evation	Date:	Logg	ar.		cale: 1:25
22T Tracked E	xcavator			3 mOD	23/05/				FINAL
Depth	Sample /		Level	Depth	_	<u> </u>		ë	
(m)	Tests		(mOD)		Legend	·		Wat	
		Seepage at 5.00m			Legend	MADE GROUND: Brownish black fine to coarse SAND and subsubrounded fine to coarse GRAVEL with high volume of plast (shredded), red brick fragments, timber and metal. Cobbles a subrounded. Pockets of sandy gravelly CLAY throughout. Possible MADE GROUND: Bluish grey sandy gravelly CLAY wit content and pockets of coarse sand. Sand is fine to coarse. Gi subrounded fine to coarse. Cobbles are subrounded. End of trial pit at 6.00m	ic are h low cobble	Water	5.5 — 6.0 — 7.0 — 7.5 — 8.0 — 9.0 — 9.5 —
				ļ					-
				ţ					-
				F					_
				E					
14/	w Chuilean		Ros	marks:					
Struck at (m)	er Strikes Remark	Depth: 6.00	Ker	iiai N3.					
5.00	Seepage	140 111 4.50							
3.00	5.00m	at							
		Stability:	Ter	mination R	eason		Last Up	date	d 2 - 2
						donth			
		Stable	Terr	minated at so	neduled o	аертп	28/06/2	2022	AGS

			Pro	ject No.	Project	t Name:		Т	rial Pit ID	
A ROA				2-0242	1	by Remediation Project Phase 2				
	CAU	SEWAY GEOTECH	-	rdinates	Client:			1	TP656	
		GEOTECH			DAERA					
Method:				009.67 E		s Representative:		Sł	neet 1 of 2	
Trial Pitting			4176	651.89 N	Tetra T				cale: 1:25	
Plant:			Ele	evation	Date:	Logg	ger:			
22T Tracked Ex	xcavator		10.4	l8 mOD	24/05/				FINAL	
Depth	Sample /	Field Records	Level	Depth	Legend	Description		ater		
2.00	ES1	Water strike at 4.50m	9.38	1.10	Legend	MADE GROUND: Brown sandy gravelly SILT with low cobble content and shredded household waste predominantly of pl fine to coarse. Gravel is subangular to subrounded fine to co Cobbles and boulders are angular. MADE GROUND: Blackish brown sandy gravelly SILT with ho waste including plastics, textiles. rope, metal, glass, tin, vehi concrete boulders. MADE GROUND: Tyres	astic. Sand is arse.	Water	1.5 — 2.0 — 3.5 — 4.0 — 4.5 — 4.5 — 4.5 — 4.5 — 4.5 — 4.5 — 4.5 — 4.5 — 4.5 — 4.7 — 4.8 — 4.9 — 4.9 — 4.9 — 4.9 — 4.9 — 4.9 — 4.9 — 4.9 — 4.9 — 4.9 — 4.9 — 4.9 — 4.9 — 4.9 — 4.9 — 4.9 — 4.9 — 4.5 — 4.	
			+-	-						
Wate	r Strikes	Denth: 0.50	Re	marks:	1	ı				
Struck at (m)	Remark	140' 111 4 50								
4.50	Water strik									
	4.50m	Length: 5.00								
		Stability:	Ter	mination R	Reason		Last Up	date	d T	
		Stable	Ter	minated due	to maxim	um reach of excavator	28/06,	/2022	AGS	
	1		1				1 ' '			

			Droi	ect No.	Droiec	Name:		Т.	rial Pit ID
2				-0242	1	y Remediation Project Phase 2		'	I Iai Fit ID
	CAUS	EWAY GEOTECH			Client:	y Nemediation Project Phase 2			TP656
		GEOTECH	Cool	rdinates	DAERA	/NIE A			11030
Method:			2480	009.67 E		Representative:		-	
Trial Pitting			4176	51.89 N	Tetra T				neet 2 of 2
Plant:			Flo	vation	Date:		Logger:		cale: 1:25
22T Tracked I	Evcavator			8 mOD	24/05/	2022	LOgger.		FINAL
Depth	Sample /		Level	Depth			LIV	-	
(m)	Tests	Field Records	(mOD)	(m)	Legend	Description		Water	
				-		MADE GROUND: Tyres			-
									-
				-					-
				-					-
									5.5 —
				-					_
				-					-
				-					_
				-					6.0
				-					
			4.08	6.40	21/15 21/15	Brown pseudo-fibrous PEAT with decaying tree bi	anches with ro	oots and	-
6.50	ES2		3.98	6.50	shie shie	rootlets.	unches with ro	ots und	6.5 —
				-		End of trial pit at 6.50m			-
				-					
				-					_
				_					7.0
				-					-
				-					-
				-					7.5 —
									-
				-					-
				-					
				-					8.0
									-
				-					-
				-					8.5 —
				-					-
				-					-
				-					-
				-					9.0
				-					-
									-
				-					-
				-					9.5 —
				-					_
									-
				-					-
				_					_
\A/a+	er Strikes		Rer	narks:					
Struck at (m		Depth: 6.50	""						
4.50	Water strike	width: 1.50							
	4.50m	Length: 5.00							
		Stability:	Ter	mination R	leason			Last Update	d
		Stable	Terr	ninated due	to maxim	um reach of excavator		28/06/2022	AGS

A-N			Pro	ject No.	Project	t Name:			Trial Pit ID
	CALIC	SEVA/AV/		2-0242		by Remediation Project Phase 2			
A A	CAUS	SEWAY GEOTECH	Coo	rdinates	Client:				TP657
	(SEOTECH			DAERA	/NIEA			
Method:				985.89 E	Client's	s Representative:		5	Sheet 1 of 2
Trial Pitting			41/6	534.31 N	Tetra T	ech			Scale: 1:25
Plant:				vation	Date:		Logger:		FINAL
22T Tracked E				0 mOD	23/05/	2022	LN		
		Field Records		Depth (m)	Legend	Description		Water	
Depth (m) 0.50 1.00	ES1 ES2 ES3	Field Records Seepage at 2.4m	8.90	Depth (m)	Legend	Description MADE GROUND: Light brown sandy gravelly SILT with content. Sand is fine to coarse. Gravel is subangular to coarse. Cobbles are subangular to subrounded MADE GROUND: Black and brown sandy gravelly SILT of plastics, metal, timber, piping, cobbles, concrete b tyres. Sand is fine to coarse. Gravel is subangular to scoarse.	to subrounded F with high volu poulders and ve	ume ehicle	1.5 —
4.00	ES5								3.5 —
									4.5
5.00	ES6		1,		rxxxxxx				
	er Strikes	Depth: 6.50	Rei	marks:					
Struck at (m) 2.40	Remarks Seepage at 2	5							
∠.40	Seepage at 2	Length: 6.00							
		Stability:	Ter	mination R	Reason			Last Updat	ed ===
						1.68			
ĺ		Stable	Teri	minated due	to maxim	um reach of digger		28/06/202	

			Proj	ect No.	Project	Name:		Tr	ial Pit ID
	CALIC	EWAY	22	-0242	Mobuc	y Remediation Project Phase 2			
$H \rightarrow H$	CAUS	EWAY EOTECH	Coor	dinates	Client:			7	ГР657
	G	IEOTECH			DAERA	/NIEA			
Method:				85.89 E	Client's	s Representative:		She	eet 2 of 2
Trial Pitting				34.31 N	Tetra Te	ech		Sc	ale: 1:25
Plant:				vation	Date:		Logger:		FINAL
22T Tracked Exc				0 mOD	23/05/	2022	LN		IIVAL
Depth (m)	Sample / Tests	Field Records	Level (mOD)	Depth (m)	Legend	Description		Water	
			4.30	5.10		MADE GROUND: Black and brown sandy gravelly SILT v of plastics, metal, timber, piping, cobbles, concrete bo			_
				[2016 2016 2 2016 2016	tyres. Sand is fine to coarse. Gravel is subangular to su coarse.			-
				-	2016 2016 2 2016 2016	Brown pseudo fibreous PEAT.			-
				Ė	216 216 2 216 216 216 216				5.5 —
				<u> </u>	2018 2018 2018 2018 2018 2018				-
				-	2 216 216 216 216				-
				ļ	د عاد عاد عاد عاد				-
			2.40		د ماند ماد ماد ماد				-
			3.40	6.00	×. × ×	Bluish grey silty gravelly fine to coarse SAND with low of Gravel is subangular to subrounded fine to coarse. Cob			6.0
				-	×.°×°×	subrounded	ibles are		4
				[× × ×	GFSD			4
6.40	ES7				*. * *				-
			2.90	- 6.50 -		End of trial pit at 6.50m			6.5
				[
				-					-
				[
				-					7.0 —
				E]
				<u> </u>					
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				-					8.5 —
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				<u> </u>					9.5 —
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Water	Strikes	Double 0.50	Ren	narks:	1				
Struck at (m)	Remarks	Depth: 6.50							
2.40	Seepage at 2.								
		Length: 6.00						A 11	
		Stability:		mination R				t Updated	
		Stable	Term	ninated due	to maxim	um reach of digger	28	3/06/2022	AGS

			Proi	ect No.	Proiect	: Name:		Т	rial Pit ID	
			1	-0242	Mobuoy Remediation Project Phase 2					
	CAUS	EWAY		dinates	Client:			1	TP658	
	———GI	EOTECH			DAERA					
Method:				91.67 E	1	s Representative:		ÇI	neet 1 of 2	
Trial Pitting			4176	27.60 N	Tetra Te				cale: 1:25	
Plant:			Ele	vation	Date:		ogger:	<u> </u>		
22T Tracked Ex	cavator			1 mOD	24/05/				FINAL	
Depth	Sample /	Field Records	Level	Depth	Legend	Description		Water		
(m)	Tests		(mOD)	(m)		MADE GROUND: Brown sandy gravelly SILT with medium		\$		
2.00	ES1		9.21	1.20		·	es. concrete and subrounded fine t medium cobble pedding, glass subrounded fine		1.5 — 2.0 — 3.0 — 4.0 — 4.5 — 4.5 —	
				<u> </u>					-	
5.00	FS2			-						
5.00	ES2		Por	narks:						
	Strikes	Depth: 6.00	Ken	idfKS:						
Struck at (m) 5.40	Remarks	1 50								
5.40	Heavy water strike at 5.40n									
	301 INC 00 3.4011	"					1			
		Stability:	Terr	nination R	eason		Last Up			
	Stable Terminated at			ninated at sc	heduled o	depth	28/06/	2022	AGS	

20			Proj	ect No.	-	Name:		Tri	al Pit ID
(A)	CALIS	SEWAY	22	-0242	Mobuo	y Remediation Project Phase 2			
		SEWAY GEOTECH	Coor	dinates	Client:			1	P658
			2/170	91.67 E	DAERA,				
Method:				27.60 N		Representative:		She	et 2 of 2
Trial Pitting					Tetra Te			Sc	ale: 1:25
Plant:				vation	Date:	Logg	er:	ı	INAL
22T Tracked Exc	cavator		10.43	1 mOD	24/05/	2022 LN		ı	TINAL
Depth (m)	Sample /	Field Records	Level	Depth (m)	Legend	Description		Vater	
Depth (m)		Field Records Heavy water strike at 5.40m					ng, glass ounded fine of concrete.		5.5 — 6.0 — 7.0 — 8.0 — 9.0 — 9.5 — 9.5 —
				ļ					
				<u> </u>					4
				-				_	
Water	Strikes		Ren	narks:					
Struck at (m)	Remarks	Depth: 6.00		. =-					
5.40	Heavy wat	14/2-Jalle 1 F O							
5	strike at 5.4								
		Stability:	Terr	nination R	eason		Last Up	dated	
						oath			A C C
		Stable	iern	ninated at sc	neuulea c	ерш	28/06/2	2022	14(05)

			Proi	ect No.	Project	t Name:			Tri	al Pit ID
200				-0242	1 -	by Remediation Project Phase 2			••••	
	CAUS	SEWAY GEOTECH	-	dinates	Client:				т	P659
	(GEOTECH			DAERA					
Method:				70.75 E	Client's	s Representative:			She	et 1 of 1
Trial Pitting			4176	13.50 N	Tetra T	ech				ıle: 1:25
Plant:			Ele	vation	Date:		Logger:			INIAI
22T Tracked E	excavator			9 mOD	23/05/	2022	LN			INAL
	Sample / Tests	Field Records		Depth (m)	Legend	Description			Water	
Depth (m) 0.50 2.00	ES1 ES2	Heavy water strike at 2.00m	4.59	Depth (m)	Legend	Description MADE GROUND: Dark greyish brown sandy angular fine GRAVEL. Sand is fine to coarse. MADE GROUND: Black sandy dark brown sandy silty an coarse GRAVEL with medium cobble and boulder conteshredded plastic, fragments of brick, concrete and pock Sand is fine to coarse. End of trial pit at 2.30m	igular fine to	ets of y silt.	Water	2.5
				}						-
		<u> </u>	<u> </u>							
	er Strikes	Depth: 2.30	Ren	narks:						
Struck at (m)		S urill again								
2.00	Heavy war strike at 2.0	ter								
	Strike at 2.0				1000		1 -		4	
		Stability:		mination R				ast Upda		النبي
		Unstable	Term	ninated due	to ingress	of water		28/06/20	22	AGS

APPENDIX 3 -GROUNDWATER SAMPLING LOW FLOW REPORT (ROUND 1)

Low-Flow Test Report:

Test Date / Time: 12/01/2022 12:15:10

Project: Mobuoy **Operator Name:** JC

Location Name: BHW1
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 10 m
Top of Screen: 1 m
Total Depth: 9.64 m

Initial Depth to Water: 5.58 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 7.5 m Estimated Total Volume Pumped:

2000 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 5.85 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
12/01/2022 12:15	00:00	6.91 pH	8.87 °C	1,391.2 μS/cm	3.76 mg/L		-42.1 mV	5.58 m	250.00 ml/min
12/01/2022 12:16	01:00	6.90 pH	8.79 °C	1,389.4 μS/cm	2.32 mg/L		-39.0 mV	5.58 m	250.00 ml/min
12/01/2022 12:17	02:00	6.91 pH	8.77 °C	1,389.2 μS/cm	1.39 mg/L		-38.2 mV	5.58 m	250.00 ml/min
12/01/2022 12:18	03:00	6.90 pH	8.74 °C	1,390.0 μS/cm	0.97 mg/L		-37.7 mV	5.58 m	250.00 ml/min
12/01/2022 12:19	04:00	6.89 pH	8.76 °C	1,389.5 μS/cm	0.78 mg/L		-37.8 mV	5.58 m	250.00 ml/min
12/01/2022 12:20	05:00	6.90 pH	8.82 °C	1,389.1 μS/cm	0.70 mg/L		-37.7 mV	5.58 m	250.00 ml/min
12/01/2022 12:21	06:00	6.89 pH	8.77 °C	1,387.8 μS/cm	0.67 mg/L		-37.8 mV	5.58 m	250.00 ml/min
12/01/2022 12:22	07:00	6.89 pH	8.77 °C	1,387.8 μS/cm	0.67 mg/L		-38.1 mV	5.58 m	250.00 ml/min
12/01/2022 12:23	08:00	6.89 pH	8.77 °C	1,389.3 μS/cm	0.65 mg/L		-38.2 mV	5.58 m	250.00 ml/min

Samples

Sample ID:	Description:
BHW1	

Test Date / Time: 14/01/2022 10:58:27

Project: Mobuoy **Operator Name:** JC

Location Name: BH04
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 2.5 m
Top of Screen: 5 m
Total Depth: 6.78 m

Initial Depth to Water: 4.25 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 5.5 m Estimated Total Volume Pumped:

2750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 4.26 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
14/01/2022 10:58	00:00	7.02 pH	10.45 °C	2,476.2 μS/cm	2.18 mg/L	-39.8 mV	4.25 m	250.00 ml/min
14/01/2022 10:59	01:00	7.04 pH	10.28 °C	2,687.4 μS/cm	1.72 mg/L	-38.6 mV	4.25 m	250.00 ml/min
14/01/2022 11:00	02:00	7.06 pH	10.00 °C	2,811.2 μS/cm	1.87 mg/L	-38.8 mV	4.25 m	250.00 ml/min
14/01/2022 11:01	03:00	7.06 pH	9.95 °C	2,868.5 μS/cm	2.14 mg/L	-40.0 mV	4.25 m	250.00 ml/min
14/01/2022 11:02	04:00	7.06 pH	9.90 °C	2,907.0 μS/cm	2.29 mg/L	-40.2 mV	4.25 m	250.00 ml/min
14/01/2022 11:03	05:00	7.07 pH	9.83 °C	2,964.6 μS/cm	2.45 mg/L	-40.9 mV	4.25 m	250.00 ml/min
14/01/2022 11:04	06:00	7.08 pH	9.82 °C	2,988.2 μS/cm	2.67 mg/L	-41.5 mV	4.25 m	250.00 ml/min
14/01/2022 11:05	07:00	7.07 pH	9.77 °C	2,983.5 μS/cm	2.79 mg/L	-41.7 mV	4.25 m	250.00 ml/min
14/01/2022 11:06	08:00	7.07 pH	9.71 °C	2,955.4 μS/cm	2.87 mg/L	-41.4 mV	4.25 m	250.00 ml/min
14/01/2022 11:07	09:00	7.08 pH	9.67 °C	2,950.5 μS/cm	2.93 mg/L	-41.2 mV	4.25 m	250.00 ml/min
14/01/2022 11:08	10:00	7.08 pH	9.58 °C	2,947.0 μS/cm	2.93 mg/L	-41.2 mV	4.25 m	250.00 ml/min
14/01/2022 11:09	11:00	7.08 pH	9.51 °C	2,943.6 μS/cm	2.98 mg/L	-41.2 mV	4.25 m	250.00 ml/min

Samples

Sample ID:	Description:
BH04	

Test Date / Time: 13/01/2022 10:41:59

Project: Mobuoy **Operator Name:** JC

Location Name: BH05
Well Diameter: 5 cm
Casing Type: Plastic
Total Depth: 6 m

Initial Depth to Water: 2.38 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 4.2 m Estimated Total Volume Pumped:

1500 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.94 m **Instrument Used: Aqua TROLL 500**

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
13/01/2022 10:41	00:00	7.38 pH	8.91 °C	510.93 μS/cm	2.49 mg/L		-69.9 mV	2.38 m	250.00 ml/min
13/01/2022 10:42	01:00	7.39 pH	8.94 °C	510.40 μS/cm	1.94 mg/L		-77.5 mV	2.38 m	250.00 ml/min
13/01/2022 10:43	02:00	7.39 pH	8.96 °C	510.49 μS/cm	1.72 mg/L		-81.9 mV	2.38 m	250.00 ml/min
13/01/2022 10:44	03:00	7.40 pH	8.98 °C	510.13 μS/cm	1.59 mg/L		-85.7 mV	2.38 m	250.00 ml/min
13/01/2022 10:45	04:00	7.41 pH	8.97 °C	509.88 μS/cm	1.58 mg/L		-87.8 mV	2.38 m	250.00 ml/min
13/01/2022 10:46	05:00	7.40 pH	8.95 °C	509.70 μS/cm	1.54 mg/L		-89.4 mV	2.38 m	250.00 ml/min
13/01/2022 10:47	06:00	7.41 pH	8.95 °C	509.66 μS/cm	1.47 mg/L		-91.5 mV	2.38 m	250.00 ml/min

Sample ID:	Description:
BH05	

Test Date / Time: 12/01/2022 10:41:43

Project: Mobuoy
Operator Name: JB

Location Name: BH06
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 2 m
Top of Screen: 4.2 m
Total Depth: 7.43 m

Initial Depth to Water: 4.21 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 5.9 m Estimated Total Volume Pumped:

1250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 4.27 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
12/01/2022 10:41	00:00	5.88 pH	10.11 °C	2,739.0 μS/cm	1.04 mg/L	288.02 NTU	44.2 mV	4.21 m	250.00 ml/min
12/01/2022 10:42	01:00	5.92 pH	10.13 °C	2,757.7 μS/cm	0.73 mg/L	236.46 NTU	43.8 mV	4.21 m	250.00 ml/min
12/01/2022 10:43	02:00	5.91 pH	10.13 °C	2,755.4 μS/cm	0.68 mg/L	215.29 NTU	44.7 mV	4.21 m	250.00 ml/min
12/01/2022 10:44	03:00	5.93 pH	10.14 °C	2,762.0 μS/cm	0.82 mg/L	165.35 NTU	44.6 mV	4.21 m	250.00 ml/min
12/01/2022 10:45	04:00	5.92 pH	10.13 °C	2,756.3 μS/cm	0.67 mg/L	155.29 NTU	44.9 mV	4.21 m	250.00 ml/min
12/01/2022 10:46	05:00	5.92 pH	10.11 °C	2,747.6 μS/cm	0.67 mg/L	147.91 NTU	44.6 mV	4.21 m	250.00 ml/min

Samples

Sample ID:	Description:
BH06	GW

Test Date / Time: 14/01/2022 09:55:14

Project: Mobuoy
Operator Name: JB

Location Name: BH07
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 2.5 m
Top of Screen: 5 m
Total Depth: 6.43 m

Initial Depth to Water: 3.47 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 5 m Estimated Total Volume Pumped:

1750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.46 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
14/01/2022	00:00	6.90 pH	9.46 °C	2,941.1	0.52 mg/L	128.06 NTU	-119.5 mV	347.00 cm	250.00 ml/min
09:55	00.00	0.90 pm	9.40	μS/cm	0.52 Hig/L	120.00 1110	-119.51110	347.00 CIII	250.00 111/111111
14/01/2022	01:00	6.91 pH	9.32 °C	2,951.7	0.46 mg/L	134.95 NTU	-119.9 mV	347.00 cm	250.00 ml/min
09:56	01.00	0.91 pm	9.52 C	μS/cm	0.40 mg/L	134.93 1110	-119.91110	347.00 CIII	250.00 111/111111
14/01/2022	02:00	6.91 pH	9.21 °C	2,958.5	0.42 mg/L	135.20 NTU	-121.0 mV	347.00 cm	250.00 ml/min
09:57	02.00	0.91 pH	9.21 0	μS/cm	0.42 Hig/L	133.20 1110	-121.01110	347.00 CIII	250.00 111/111111
14/01/2022	03:00	6.91 pH	9.05 °C	2,967.1	0.45 mg/L	212.64 NTU	-121.0 mV	347.00 cm	250.00 ml/min
09:58	03.00	0.91 pH	9.05	μS/cm	0.43 Hig/L	212.04 1110	-121.01110	547.00 CIII	250.00 111/111111
14/01/2022	04:00	04:00 6.90 pH	8.97 °C	2,974.8	0.52 mg/L	130.04 NTU	-120.8 mV	347.00 cm	250.00 ml/min
09:59	04.00	0.90 pm	0.97 C	μS/cm	0.52 mg/L	130.04 1110	-120.01110	547.00 CIII	250.00 111/111111
14/01/2022	05:00	6.90 pH	8.91 °C	2,977.6	0.43 mg/L	129.71 NTU	-119.8 mV	347.00 cm	250.00 ml/min
10:00	05.00	0.50 pr i	0.51	μS/cm	0.43 mg/L	123.711110	-115.01110	547.00 CIII	250.00 111/111111
14/01/2022	06:00	6.90 pH	8.83 °C	2,980.1	0.38 mg/L	139.41 NTU	-119.9 mV	347.00 cm	250.00 ml/min
10:01	00.00	0.55 pri	0.00	μS/cm	0.50 Hig/L	155.711110	-113.91110	547.50 CIII	250.00 111/111111
14/01/2022	07:00	6.90 pH	8.76 °C	2,983.6	0.36 mg/L	127.11 NTU	-120.3 mV	347.00 cm	250.00 ml/min
10:02	07.00	0.90 pri	0.70 C	μS/cm	0.30 Hig/L	127.111110	-120.31110	347.00 CIII	230.00 111/111111

Sample ID:	Description:
BH07	GW

Test Date / Time: 20/01/2022 12:25:31

Project: Mobuoy **Operator Name:** JB

Location Name: BH101
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 3.5 m
Top of Screen: 5 m
Total Depth: 8.59 m

Initial Depth to Water: 2.44 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 5.2 m Estimated Total Volume Pumped:

1250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.45 m **Instrument Used: Aqua TROLL 500**

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
20/01/2022 12:25	00:00	6.58 pH	9.98 °C	315.80 μS/cm	1.14 mg/L	109.64 NTU	58.2 mV	244.00 cm	250.00 ml/min
20/01/2022 12:26	01:00	6.44 pH	9.92 °C	315.12 μS/cm	0.81 mg/L	114.89 NTU	69.2 mV	244.00 cm	250.00 ml/min
20/01/2022 12:27	02:00	6.36 pH	9.88 °C	315.00 μS/cm	0.70 mg/L	108.00 NTU	75.4 mV	244.00 cm	250.00 ml/min
20/01/2022 12:28	03:00	6.32 pH	9.88 °C	315.21 μS/cm	0.63 mg/L	91.33 NTU	79.5 mV	244.00 cm	250.00 ml/min
20/01/2022 12:29	04:00	6.31 pH	9.88 °C	314.87 μS/cm	0.59 mg/L	110.07 NTU	82.0 mV	244.00 cm	250.00 ml/min
20/01/2022 12:30	05:00	6.30 pH	9.89 °C	315.36 μS/cm	0.54 mg/L	94.81 NTU	84.4 mV	244.00 cm	250.00 ml/min

Samples

Sample ID:	Description:
BH101	

Test Date / Time: 14/01/2022 14:02:39

Project: Mobuoy Operator Name: JB

Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 3.5 m
Top of Screen: 4 m

Total Depth: 7.94 m

Initial Depth to Water: 2.24 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 5 m Estimated Total Volume Pumped:

2250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.24 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
14/01/2022 14:02	00:00	6.87 pH	8.85 °C	548.72 μS/cm	1.98 mg/L	62.11 NTU	86.3 mV	224.00 cm	250.00 ml/min
14/01/2022 14:03	01:00	6.77 pH	8.88 °C	547.38 μS/cm	1.25 mg/L	36.88 NTU	93.8 mV	224.00 cm	250.00 ml/min
14/01/2022 14:04	02:00	6.73 pH	8.86 °C	546.96 μS/cm	1.02 mg/L	45.45 NTU	99.1 mV	224.00 cm	250.00 ml/min
14/01/2022 14:05	03:00	6.73 pH	8.86 °C	546.47 μS/cm	1.07 mg/L	36.54 NTU	102.0 mV	224.00 cm	250.00 ml/min
14/01/2022 14:06	04:00	6.72 pH	8.90 °C	546.50 μS/cm	0.98 mg/L	38.60 NTU	104.7 mV	224.00 cm	250.00 ml/min
14/01/2022 14:07	05:00	6.72 pH	8.94 °C	546.23 μS/cm	0.90 mg/L	80.03 NTU	106.9 mV	224.00 cm	250.00 ml/min
14/01/2022 14:08	06:00	6.71 pH	8.94 °C	545.62 μS/cm	0.81 mg/L	30.71 NTU	108.5 mV	224.00 cm	250.00 ml/min
14/01/2022 14:09	07:00	6.71 pH	8.94 °C	545.49 μS/cm	0.84 mg/L	24.47 NTU	110.0 mV	224.00 cm	250.00 ml/min
14/01/2022 14:10	08:00	6.70 pH	8.92 °C	545.12 μS/cm	0.77 mg/L	23.02 NTU	111.3 mV	224.00 cm	250.00 ml/min
14/01/2022 14:11	09:00	6.71 pH	8.89 °C	545.28 μS/cm	0.68 mg/L	19.78 NTU	112.3 mV	224.00 cm	250.00 ml/min

Sample ID:	Description:
BH102	GW

Test Date / Time: 14/01/2022 14:41:12

Project: Mobuoy Operator Name: JB

Location Name: BH103
Well Diameter: 5 cm
Casing Type: Plastic

Screen Length: 3.5 m Top of Screen: 4 m Total Depth: 7 m

Initial Depth to Water: 4.5 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 4.5 m Estimated Total Volume Pumped:

1770.833 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.15 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
14/01/2022 14:41	00:00	6.70 pH	9.37 °C	589.45 μS/cm	2.34 mg/L	56.65 NTU	-50.2 mV	450.00 cm	250.00 ml/min
14/01/2022 14:42	01:00	6.74 pH	9.55 °C	587.80 μS/cm	0.88 mg/L	31.66 NTU	-61.2 mV	450.00 cm	250.00 ml/min
14/01/2022 14:43	02:00	6.76 pH	9.56 °C	586.65 μS/cm	0.80 mg/L	24.80 NTU	-66.4 mV	450.00 cm	250.00 ml/min
14/01/2022 14:44	03:00	6.75 pH	9.55 °C	586.82 μS/cm	0.75 mg/L	31.23 NTU	-69.2 mV	450.00 cm	250.00 ml/min
14/01/2022 14:45	04:00	6.71 pH	9.53 °C	587.61 μS/cm	0.76 mg/L	25.18 NTU	-70.1 mV	450.00 cm	250.00 ml/min
14/01/2022 14:46	05:11	6.75 pH	9.48 °C	587.25 μS/cm	0.87 mg/L	28.24 NTU	-76.7 mV	450.00 cm	250.00 ml/min
14/01/2022 14:48	07:05	6.74 pH	9.50 °C	587.58 μS/cm	0.97 mg/L	28.71 NTU	-79.2 mV	450.00 cm	250.00 ml/min

Samples

Sample ID:	Description:
BH103	GW

Test Date / Time: 14/01/2022 12:06:16

Project: Mobuoy **Operator Name:** JC

Location Name: BH104
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 3.3 m
Top of Screen: 3 m

Total Depth: 6.56 m

Initial Depth to Water: 3.12 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 4.8 m Estimated Total Volume Pumped:

2750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.13 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
14/01/2022 12:06	00:00	7.57 pH	8.54 °C	558.15 μS/cm	9.80 mg/L	2.7 mV	3.12 m	250.00 ml/min
14/01/2022 12:07	01:00	7.18 pH	8.53 °C	573.80 μS/cm	6.49 mg/L	23.6 mV	3.12 m	250.00 ml/min
14/01/2022 12:08	02:00	7.00 pH	8.56 °C	569.77 μS/cm	5.69 mg/L	35.9 mV	3.12 m	250.00 ml/min
14/01/2022 12:09	03:00	6.92 pH	8.58 °C	561.97 μS/cm	5.92 mg/L	44.2 mV	3.12 m	250.00 ml/min
14/01/2022 12:10	04:00	6.88 pH	8.59 °C	556.11 μS/cm	6.37 mg/L	50.1 mV	3.12 m	250.00 ml/min
14/01/2022 12:11	05:00	6.86 pH	8.60 °C	552.50 μS/cm	6.70 mg/L	55.7 mV	3.12 m	250.00 ml/min
14/01/2022 12:12	06:00	6.83 pH	8.59 °C	553.03 µS/cm	6.84 mg/L	59.5 mV	3.12 m	250.00 ml/min
14/01/2022 12:13	07:00	6.82 pH	8.57 °C	553.53 μS/cm	6.95 mg/L	63.5 mV	3.12 m	250.00 ml/min
14/01/2022 12:14	08:00	6.82 pH	8.54 °C	554.70 μS/cm	7.02 mg/L	67.3 mV	3.12 m	250.00 ml/min
14/01/2022 12:15	09:00	6.82 pH	8.49 °C	553.70 μS/cm	7.10 mg/L	70.8 mV	3.12 m	250.00 ml/min
14/01/2022 12:16	10:00	6.82 pH	8.45 °C	552.50 μS/cm	7.16 mg/L	73.5 mV	3.12 m	250.00 ml/min
14/01/2022 12:17	11:00	6.82 pH	8.43 °C	553.04 μS/cm	7.20 mg/L	75.8 mV	3.12 m	250.00 ml/min

Samples

Sample ID:	Description:
BH104	

Test Date / Time: 11/01/2022 15:51:24

Project: Mobuoy **Operator Name:** JB

Location Name: BH105
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 7 m
Top of Screen: 1 m
Total Depth: 9.24 m

Initial Depth to Water: 4.57 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 6.8 m Estimated Total Volume Pumped:

2250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 4.53 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
11/01/2022 15:51	00:00	6.49 pH	9.99 °C	1,056.4 μS/cm	1.63 mg/L	7.38 NTU	-98.0 mV	4.57 m	250.00 ml/min
11/01/2022 15:52	01:00	6.55 pH	10.16 °C	1,050.3 μS/cm	0.78 mg/L	9.44 NTU	-114.2 mV	4.57 m	250.00 ml/min
11/01/2022 15:53	02:00	6.57 pH	10.13 °C	1,047.1 μS/cm	0.57 mg/L	5.13 NTU	-124.4 mV	4.57 m	250.00 ml/min
11/01/2022 15:54	03:00	6.57 pH	10.02 °C	1,045.8 μS/cm	0.53 mg/L	4.47 NTU	-132.9 mV	4.57 m	250.00 ml/min
11/01/2022 15:55	04:00	6.58 pH	9.95 °C	1,047.4 μS/cm	0.54 mg/L	4.91 NTU	-138.0 mV	4.57 m	250.00 ml/min
11/01/2022 15:56	05:00	6.57 pH	9.95 °C	1,046.9 μS/cm	0.51 mg/L	4.18 NTU	-142.6 mV	4.57 m	250.00 ml/min
11/01/2022 15:57	06:00	6.57 pH	9.99 °C	1,046.7 μS/cm	0.49 mg/L	3.59 NTU	-143.6 mV	4.57 m	250.00 ml/min
11/01/2022 15:58	07:00	6.57 pH	9.99 °C	1,046.2 μS/cm	0.48 mg/L	3.25 NTU	-148.1 mV	4.57 m	250.00 ml/min
11/01/2022 15:59	08:00	6.57 pH	10.02 °C	1,048.2 μS/cm	0.46 mg/L	3.20 NTU	-151.5 mV	4.57 m	250.00 ml/min
11/01/2022 16:00	09:00	6.57 pH	10.04 °C	1,048.0 μS/cm	0.37 mg/L	3.05 NTU	-154.6 mV	4.57 m	250.00 ml/min

Sample ID:	Description:
BH105	

Test Date / Time: 12/01/2022 09:52:20

Project: Mobuoy Operator Name: JB

Location Name: BH106
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 1 m
Top of Screen: 6 m

Total Depth: 7.37 m

Initial Depth to Water: 4.42 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 6.1 m Estimated Total Volume Pumped:

2500 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 4.88 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
12/01/2022 09:52	00:00	6.55 pH	10.32 °C	997.61 μS/cm	2.86 mg/L	58.69 NTU	-59.0 mV	4.42 m	250.00 ml/min
12/01/2022 09:53	01:00	6.53 pH	10.26 °C	988.73 μS/cm	1.73 mg/L	58.53 NTU	-56.4 mV	4.42 m	250.00 ml/min
12/01/2022 09:54	02:00	6.51 pH	10.21 °C	987.80 μS/cm	1.58 mg/L	52.83 NTU	-54.5 mV	4.42 m	250.00 ml/min
12/01/2022 09:55	03:00	6.50 pH	10.21 °C	990.74 μS/cm	1.58 mg/L	40.02 NTU	-53.0 mV	4.42 m	250.00 ml/min
12/01/2022 09:56	04:00	6.51 pH	10.22 °C	989.46 μS/cm	1.56 mg/L	48.43 NTU	-51.9 mV	4.42 m	250.00 ml/min
12/01/2022 09:57	05:00	6.50 pH	9.97 °C	980.14 μS/cm	1.17 mg/L	63.26 NTU	-50.5 mV	4.42 m	250.00 ml/min
12/01/2022 09:58	06:00	6.48 pH	9.97 °C	985.35 μS/cm	0.81 mg/L	54.31 NTU	-50.1 mV	4.42 m	250.00 ml/min
12/01/2022 09:59	07:00	6.47 pH	10.09 °C	985.29 μS/cm	0.78 mg/L	60.26 NTU	-51.8 mV	4.42 m	250.00 ml/min
12/01/2022 10:00	08:00	6.47 pH	10.14 °C	983.70 μS/cm	0.65 mg/L	50.13 NTU	-51.8 mV	4.42 m	250.00 ml/min
12/01/2022 10:01	09:00	6.47 pH	10.15 °C	983.57 μS/cm	0.65 mg/L	67.41 NTU	-50.5 mV	4.42 m	250.00 ml/min
12/01/2022 10:02	10:00	6.46 pH	10.14 °C	982.56 μS/cm	0.66 mg/L	48.63 NTU	-49.1 mV	4.42 m	250.00 ml/min

Sample ID:	Description:
BH106	

Test Date / Time: 13/01/2022 14:46:26

Project: Mobuoy **Operator Name:** JC

Location Name: BH107
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 1.5 m
Top of Screen: 6.5 m
Total Depth: 8.7 m

Initial Depth to Water: 4.58 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 7 m Estimated Total Volume Pumped:

2954.167 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 6.3 m **Instrument Used: Aqua TROLL 500**

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
13/01/2022 14:46	00:00	6.61 pH	10.46 °C	3,914.5 μS/cm	1.16 mg/L	-31.7 mV	4.58 m	250.00 ml/min
13/01/2022 14:47	01:00	6.61 pH	10.39 °C	3,874.5 µS/cm	1.02 mg/L	-32.6 mV	4.58 m	250.00 ml/min
13/01/2022 14:51	04:49	6.59 pH	10.31 °C	3,845.8 µS/cm	1.57 mg/L	-36.3 mV	4.58 m	250.00 ml/min
13/01/2022 14:52	05:49	6.61 pH	10.32 °C	3,591.1 µS/cm	1.15 mg/L	-37.3 mV	4.58 m	250.00 ml/min
13/01/2022 14:53	06:49	6.61 pH	10.31 °C	3,578.4 µS/cm	0.67 mg/L	-38.1 mV	4.58 m	250.00 ml/min
13/01/2022 14:54	07:49	6.61 pH	10.25 °C	3,563.8 µS/cm	0.50 mg/L	-38.8 mV	4.58 m	250.00 ml/min
13/01/2022 14:55	08:49	6.62 pH	10.18 °C	3,546.9 µS/cm	0.46 mg/L	-39.3 mV	4.58 m	250.00 ml/min
13/01/2022 14:56	09:49	6.62 pH	10.12 °C	3,548.1 µS/cm	0.46 mg/L	-39.7 mV	4.58 m	250.00 ml/min
13/01/2022 14:57	10:49	6.62 pH	10.07 °C	3,543.4 µS/cm	0.45 mg/L	-40.7 mV	4.58 m	250.00 ml/min
13/01/2022 14:58	11:49	6.63 pH	10.02 °C	3,576.6 µS/cm	0.43 mg/L	-41.6 mV	4.58 m	250.00 ml/min

Sample ID: Description:

	+
BH107	
DD 107	

Test Date / Time: 13/01/2022 11:41:50

Project: Mobuoy **Operator Name:** JC

Location Name: BH108
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 3 m
Top of Screen: 1 m
Total Depth: 4.12 m

Initial Depth to Water: 1.26 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 2.8 m Estimated Total Volume Pumped:

1000 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 1.27 m **Instrument Used: Aqua TROLL 500**

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
13/01/2022 11:41	00:00	7.36 pH	7.87 °C	326.61 µS/cm	0.80 mg/L		-80.4 mV	1.26 m	250.00 ml/min
13/01/2022 11:42	01:00	7.36 pH	7.86 °C	325.30 μS/cm	0.74 mg/L		-80.3 mV	1.26 m	250.00 ml/min
13/01/2022 11:43	02:00	7.35 pH	7.82 °C	323.63 µS/cm	0.68 mg/L		-80.3 mV	1.26 m	250.00 ml/min
13/01/2022 11:44	03:00	7.35 pH	7.87 °C	320.70 μS/cm	0.62 mg/L		-80.6 mV	1.26 m	250.00 ml/min
13/01/2022 11:45	04:00	7.36 pH	7.87 °C	320.99 μS/cm	0.57 mg/L		-81.0 mV	1.26 m	250.00 ml/min

Samples

Sample ID:	Description:
BH108	

Test Date / Time: 13/01/2022 11:07:13

Project: Mobuoy Operator Name: JB

Location Name: BH111
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 4.5 m
Top of Screen: 6 m

Total Depth: 9.52 m

Initial Depth to Water: 4.18 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 6.9 m Estimated Total Volume Pumped:

1500 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 4.17 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.3	+/- 3 %	+/- 0.2	+/- 10	+/- 20		
13/01/2022 11:07	00:00	8.06 pH	8.72 °C	343.71 μS/cm	8.84 mg/L	8.39 NTU	-79.4 mV	4.18 m	250.00 ml/min
13/01/2022 11:08	01:00	7.86 pH	8.42 °C	346.71 μS/cm	7.14 mg/L	5.05 NTU	-45.4 mV	4.18 m	250.00 ml/min
13/01/2022 11:09	02:00	7.74 pH	8.27 °C	342.53 μS/cm	6.75 mg/L	3.72 NTU	-26.2 mV	4.18 m	250.00 ml/min
13/01/2022 11:10	03:00	7.67 pH	8.16 °C	341.84 μS/cm	6.68 mg/L	0.74 NTU	-13.7 mV	4.18 m	250.00 ml/min
13/01/2022 11:11	04:00	7.64 pH	8.08 °C	339.40 μS/cm	6.68 mg/L	1.47 NTU	-8.0 mV	4.18 m	250.00 ml/min
13/01/2022 11:12	05:00	7.64 pH	8.08 °C	337.85 μS/cm	6.68 mg/L	0.00 NTU	-2.4 mV	4.18 m	250.00 ml/min
13/01/2022 11:13	06:00	7.62 pH	8.07 °C	338.75 μS/cm	6.63 mg/L	0.00 NTU	1.9 mV	4.18 m	250.00 ml/min

Samples

Sample ID:	Description:
BH111	

Test Date / Time: 13/01/2022 12:38:46

Project: Mobuoy Operator Name: JB

Location Name: BH112
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 3 m
Top of Screen: 2.6 m
Total Depth: 5.31 m

Initial Depth to Water: 0.39 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 3 m Estimated Total Volume Pumped:

1750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.37 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
13/01/2022	00:00	6.97 pH	8.85 °C	358.05 µS/cm	8.75 mg/L	66.8 mV	0.39 m	250.00 ml/min
12:38								
13/01/2022 12:39	01:00	6.73 pH	8.80 °C	353.17 μS/cm	8.75 mg/L	67.3 mV	0.39 m	250.00 ml/min
13/01/2022 12:40	02:00	6.59 pH	8.78 °C	353.96 µS/cm	8.74 mg/L	78.5 mV	0.39 m	250.00 ml/min
13/01/2022								
13/01/2022	03:00	6.50 pH	8.74 °C	348.84 μS/cm	8.74 mg/L	84.9 mV	0.39 m	250.00 ml/min
13/01/2022	04:00	6.46 pH	8.73 °C	349.41 µS/cm	8.74 mg/L	89.9 mV	0.39 m	250.00 ml/min
12:42				·	<u> </u>			
13/01/2022 12:43	05:00	6.41 pH	8.75 °C	342.37 µS/cm	8.70 mg/L	93.6 mV	0.39 m	250.00 ml/min
13/01/2022 12:44	06:00	6.37 pH	8.76 °C	337.34 μS/cm	8.69 mg/L	102.3 mV	0.39 m	250.00 ml/min
13/01/2022								
12:45	07:00	6.36 pH	8.78 °C	333.63 µS/cm	8.69 mg/L	108.0 mV	0.39 m	250.00 ml/min

Sample ID:	Description:
BH112	

Test Date / Time: 11/01/2022 09:48:38

Project: Mobuoy Operator Name: JB

Location Name: BH114
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 1.5 m
Top of Screen: 3.5 m

Total Depth: 5.44 m

Initial Depth to Water: 2.5 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 4 m Estimated Total Volume Pumped:

2716.667 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.3 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
11/01/2022 09:48	00:00	6.38 pH	8.56 °C	271.37 μS/cm	6.34 mg/L	3.04 NTU	104.2 mV	2.50 m	250.00 ml/min
11/01/2022 09:49	01:00	6.38 pH	8.44 °C	268.08 μS/cm	6.36 mg/L	3.07 NTU	104.5 mV	2.50 m	250.00 ml/min
11/01/2022 09:50	02:00	6.35 pH	8.34 °C	268.65 μS/cm	6.35 mg/L	1.57 NTU	106.7 mV	2.50 m	250.00 ml/min
11/01/2022 09:51	03:00	6.33 pH	8.28 °C	271.00 μS/cm	6.31 mg/L	3.93 NTU	108.2 mV	2.50 m	250.00 ml/min
11/01/2022 09:52	04:00	6.32 pH	8.22 °C	270.58 μS/cm	6.31 mg/L	2.00 NTU	108.9 mV	2.50 m	250.00 ml/min
11/01/2022 09:53	05:00	6.30 pH	8.17 °C	269.93 μS/cm	6.30 mg/L	4.52 NTU	109.7 mV	2.50 m	250.00 ml/min
11/01/2022 09:54	06:00	6.26 pH	8.21 °C	271.97 μS/cm	6.31 mg/L	5.57 NTU	112.8 mV	2.50 m	250.00 ml/min
11/01/2022 09:55	07:00	6.26 pH	8.24 °C	270.84 μS/cm	6.31 mg/L	5.74 NTU	113.7 mV	2.50 m	250.00 ml/min
11/01/2022 09:56	08:00	6.25 pH	8.25 °C	270.06 μS/cm	6.30 mg/L	4.25 NTU	114.9 mV	2.50 m	250.00 ml/min
11/01/2022 09:59	10:52	6.22 pH	8.27 °C	272.53 μS/cm	6.22 mg/L	5.82 NTU	117.8 mV	2.50 m	250.00 ml/min

Sample ID:	Description:
BH114	GW

Test Date / Time: 14/01/2022 11:53:33

Project: Mobuoy
Operator Name: JB

Location Name: BH118
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 1 m
Top of Screen: 8.8 m
Total Depth: 8.84 m

Initial Depth to Water: 0.75 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 4.6 m Estimated Total Volume Pumped:

1000 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.74 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
14/01/2022 11:53	00:00	6.48 pH	9.15 °C	353.01 μS/cm	0.43 mg/L	300.85 NTU	121.1 mV	75.00 cm	250.00 ml/min
14/01/2022 11:54	01:00	6.51 pH	9.11 °C	354.04 μS/cm	0.48 mg/L	262.22 NTU	120.9 mV	75.00 cm	250.00 ml/min
14/01/2022 11:55	02:00	6.52 pH	9.07 °C	353.58 μS/cm	0.59 mg/L	251.36 NTU	120.9 mV	75.00 cm	250.00 ml/min
14/01/2022 11:56	03:00	6.52 pH	9.06 °C	353.52 μS/cm	0.49 mg/L	241.00 NTU	121.5 mV	75.00 cm	250.00 ml/min
14/01/2022 11:57	04:00	6.52 pH	9.04 °C	353.07 μS/cm	0.49 mg/L	194.79 NTU	122.1 mV	75.00 cm	250.00 ml/min

Samples

Sample ID:	Description:
BH118	GW

Test Date / Time: 11/01/2022 12:20:13

Project: Mobuoy Operator Name: JB

Location Name: BH121 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 2 m Top of Screen: 3 m

Total Depth: 5.42 m

Initial Depth to Water: 2.03 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 3.7 m Estimated Total Volume Pumped:

3750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.02 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

-				Specific	RDO		000	Depth To	
Date Time	Elapsed Time	рН	Temperature	Conductivity	Concentration	Turbidity	ORP	Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
11/01/2022 12:20	00:00	6.34 pH	9.19 °C	377.11 μS/cm	5.72 mg/L	15.32 NTU	58.0 mV	2.03 m	250.00 ml/min
11/01/2022 12:21	01:00	6.30 pH	9.13 °C	377.46 μS/cm	5.30 mg/L	13.99 NTU	64.5 mV	2.03 m	250.00 ml/min
11/01/2022 12:22	02:00	6.28 pH	9.04 °C	381.74 μS/cm	4.96 mg/L	10.32 NTU	67.6 mV	2.03 m	250.00 ml/min
11/01/2022 12:23	03:00	6.27 pH	8.97 °C	385.35 μS/cm	4.43 mg/L	7.16 NTU	69.7 mV	2.03 m	250.00 ml/min
11/01/2022 12:24	04:00	6.26 pH	8.94 °C	388.60 μS/cm	3.99 mg/L	8.18 NTU	71.0 mV	2.03 m	250.00 ml/min
11/01/2022 12:25	05:00	6.26 pH	8.94 °C	390.13 μS/cm	3.81 mg/L	6.26 NTU	71.8 mV	2.03 m	250.00 ml/min
11/01/2022 12:26	06:00	6.26 pH	8.94 °C	391.87 μS/cm	3.72 mg/L	5.71 NTU	72.6 mV	2.03 m	250.00 ml/min
11/01/2022 12:27	07:00	6.26 pH	8.94 °C	393.45 μS/cm	3.46 mg/L	8.58 NTU	74.2 mV	2.03 m	250.00 ml/min
11/01/2022 12:28	08:00	6.27 pH	8.94 °C	397.36 μS/cm	3.06 mg/L	5.01 NTU	76.7 mV	2.03 m	250.00 ml/min
11/01/2022 12:29	09:00	6.26 pH	8.93 °C	397.31 μS/cm	2.61 mg/L	7.30 NTU	79.6 mV	2.03 m	250.00 ml/min
11/01/2022 12:30	10:00	6.27 pH	8.91 °C	395.18 μS/cm	2.84 mg/L	14.62 NTU	81.2 mV	2.03 m	250.00 ml/min
11/01/2022 12:31	11:00	6.26 pH	8.91 °C	395.46 μS/cm	2.97 mg/L	6.83 NTU	82.8 mV	2.03 m	250.00 ml/min
11/01/2022 12:32	12:00	6.26 pH	8.90 °C	396.12 μS/cm	3.00 mg/L	6.39 NTU	83.6 mV	2.03 m	250.00 ml/min
11/01/2022 12:33	13:00	6.26 pH	8.89 °C	396.45 μS/cm	3.03 mg/L	5.38 NTU	84.1 mV	2.03 m	250.00 ml/min
11/01/2022 12:34	14:00	6.27 pH	8.87 °C	395.15 μS/cm	3.03 mg/L	7.90 NTU	84.6 mV	2.03 m	250.00 ml/min

11/01/2022	45.00	0.07 -11	0.00.00	004.000/	0.07/	O O A NITU	04.4\/	0.00	050 001/
12:35	15:00	6.27 pH	8.63 °C	394.26 µS/cm	3.07 mg/L	6.94 NTU	84.4 mV	2.03 m	250.00 ml/min

Samples

Sample ID:	Description:
BH121	

Test Date / Time: 17/01/2022 11:30:36

Project: Mobuoy Operator Name: JB

Location Name: BH122 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 8 m Top of Screen: 3 m

Total Depth: 11.26 m

Initial Depth to Water: 3.69 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 7 m Estimated Total Volume Pumped:

1750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.69 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
17/01/2022 11:30	00:00	6.47 pH	9.45 °C	574.55 μS/cm	3.16 mg/L	167.55 NTU	104.6 mV	369.00 cm	250.00 ml/min
17/01/2022 11:31	01:00	6.44 pH	9.42 °C	575.36 μS/cm	2.80 mg/L	103.11 NTU	110.5 mV	369.00 cm	250.00 ml/min
17/01/2022 11:32	02:00	6.43 pH	9.32 °C	575.13 μS/cm	2.50 mg/L	150.81 NTU	113.9 mV	369.00 cm	250.00 ml/min
17/01/2022 11:33	03:00	6.41 pH	9.27 °C	574.47 μS/cm	2.27 mg/L	101.40 NTU	116.0 mV	369.00 cm	250.00 ml/min
17/01/2022 11:34	04:00	6.39 pH	9.23 °C	574.87 μS/cm	2.21 mg/L	184.73 NTU	117.0 mV	369.00 cm	250.00 ml/min
17/01/2022 11:35	05:00	6.38 pH	9.20 °C	574.96 μS/cm	2.18 mg/L	112.16 NTU	117.6 mV	369.00 cm	250.00 ml/min
17/01/2022 11:36	06:00	6.38 pH	9.12 °C	574.80 μS/cm	2.09 mg/L	171.83 NTU	117.4 mV	369.00 cm	250.00 ml/min
17/01/2022 11:37	07:00	6.38 pH	9.01 °C	574.29 μS/cm	2.05 mg/L	101.15 NTU	117.0 mV	369.00 cm	250.00 ml/min

Sample ID:	Description:
BH122	GW

Test Date / Time: 19/01/2022 15:12:42

Project: Mobuoy **Operator Name:** JC

Location Name: BH201
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 1 m
Top of Screen: 6.5 m
Total Depth: 8.5 m

Initial Depth to Water: 3.14 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 7 m Estimated Total Volume Pumped:

2000 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.17 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
19/01/2022 15:12	00:00	7.10 pH	9.41 °C	2,716.1 μS/cm	2.61 mg/L	-78.6 mV	3.14 m	250.00 ml/min
19/01/2022 15:13	01:00	7.12 pH	9.22 °C	2,719.9 μS/cm	1.82 mg/L	-90.7 mV	3.14 m	250.00 ml/min
19/01/2022 15:14	02:00	00 7.12 pH 9.12 °C		2,718.8 μS/cm	1.43 mg/L	-98.3 mV	3.14 m	250.00 ml/min
19/01/2022 15:15	03:00	7.12 pH	9.10 °C	2,727.8 μS/cm	1.20 mg/L	-104.0 mV	3.14 m	250.00 ml/min
19/01/2022 15:16	04:00	7.12 pH	9.06 °C	2,732.3 μS/cm	1.04 mg/L	-108.2 mV	3.14 m	250.00 ml/min
19/01/2022 15:17	05:00	7.12 pH	9.03 °C	2,746.3 µS/cm	0.95 mg/L	-111.5 mV	3.14 m	250.00 ml/min
19/01/2022 15:18	06:00	7.12 pH	9.06 °C	2,747.8 μS/cm	0.86 mg/L	-114.5 mV	3.14 m	250.00 ml/min
19/01/2022 15:19	07:00	7.12 pH	8.95 °C	2,745.7 μS/cm	0.82 mg/L	-116.3 mV	3.14 m	250.00 ml/min
19/01/2022 15:20	08:00	7.12 pH	8.87 °C	2,752.8 μS/cm	0.81 mg/L	-117.9 mV	3.14 m	250.00 ml/min

Sample ID:	Description:
BH201	

Test Date / Time: 19/01/2022 13:50:36

Project: Mobuoy Operator Name: JB

Location Name: BH202
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 4 m
Top of Screen: 3 m

Total Depth: 8.02 m

Initial Depth to Water: 4.62 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 6.4 m Estimated Total Volume Pumped:

4500 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 4.67 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
19/01/2022 13:50	00:00	6.80 pH	9.51 °C	1,352.5 μS/cm	4.11 mg/L	69.49 NTU	-52.0 mV	462.00 cm	250.00 ml/min
19/01/2022 13:51	01:00	6.73 pH	9.54 °C	1,332.3 μS/cm	3.20 mg/L	57.47 NTU	-54.4 mV	462.00 cm	250.00 ml/min
19/01/2022 13:52	02:00	6.73 pH	9.57 °C	1,324.8 μS/cm	2.46 mg/L	56.32 NTU	-56.0 mV	462.00 cm	250.00 ml/min
19/01/2022 13:53	03:00	6.73 pH	9.58 °C	1,315.9 μS/cm	1.88 mg/L	55.97 NTU	-58.6 mV	462.00 cm	250.00 ml/min
19/01/2022 13:54	04:00	6.73 pH	9.56 °C	1,323.6 μS/cm	1.63 mg/L	45.11 NTU	-61.1 mV	462.00 cm	250.00 ml/min
19/01/2022 13:55	05:00	6.74 pH	9.54 °C	1,313.3 μS/cm	1.81 mg/L	47.61 NTU	-63.2 mV	462.00 cm	250.00 ml/min
19/01/2022 13:56	06:00	6.73 pH	9.51 °C	1,290.7 μS/cm	1.52 mg/L	39.54 NTU	-64.8 mV	462.00 cm	250.00 ml/min
19/01/2022 13:57	07:00	6.73 pH	9.51 °C	1,308.1 μS/cm	1.51 mg/L	35.65 NTU	-65.8 mV	462.00 cm	250.00 ml/min
19/01/2022 13:58	08:00	6.72 pH	9.50 °C	1,302.7 μS/cm	1.72 mg/L	26.18 NTU	-66.7 mV	462.00 cm	250.00 ml/min
19/01/2022 13:59	09:00	6.72 pH	9.50 °C	1,294.4 µS/cm	1.80 mg/L	23.03 NTU	-67.5 mV	462.00 cm	250.00 ml/min
19/01/2022 14:00	10:00	6.72 pH	9.51 °C	1,291.1 μS/cm	1.73 mg/L	20.15 NTU	-67.7 mV	462.00 cm	250.00 ml/min
19/01/2022 14:01	11:00	6.72 pH	9.50 °C	1,323.2 μS/cm	1.61 mg/L	25.65 NTU	-68.4 mV	462.00 cm	250.00 ml/min
19/01/2022 14:02	12:00	6.74 pH	9.44 °C	1,314.6 μS/cm	1.45 mg/L	19.97 NTU	-70.4 mV	462.00 cm	250.00 ml/min
19/01/2022 14:03	13:00	6.74 pH	9.35 °C	1,282.5 μS/cm	1.26 mg/L	35.08 NTU	-71.9 mV	462.00 cm	250.00 ml/min
19/01/2022 14:04	14:00	6.73 pH	9.35 °C	1,274.6 μS/cm	1.11 mg/L	44.44 NTU	-72.7 mV	462.00 cm	250.00 ml/min

19/01/2022	15:00	6.73 pH	9.35 °C	1,269.0	1.01 mg/L	31.50 NTU	-73.1 mV	462.00 cm	250.00 ml/min
14:05	15.00	6.73 PH	9.55 C	μS/cm	1.01 mg/L	31.50 N10	-73.11110	462.00 CIII	250.00 111/111111
19/01/2022	16:00	6.72 pH	9.34 °C	1,267.5	1.08 mg/L	32.50 NTU	-73.3 mV	462.00 cm	250.00 ml/min
14:06		0.72 pm	9.34 C	μS/cm					
19/01/2022	17:00	6.72 pH	9.33 °C	1,265.9	1.11 mg/L	25.40 NTU	-73.5 mV	462.00 cm	250.00 ml/min
14:07	17.00	0.72 pri		μS/cm		25.40 1410	-73.51110	402.00 CIII	
19/01/2022	18:00	18:00 6.72 pH	9.33 °C	1,276.2	1.05 mg/L	32.09 NTU	-73.5 mV	462.00 cm	250.00 ml/min
14:08	10.00	0.72 pri	9.55 C	μS/cm	1.05 Hig/L	32.09 1410	-73.51110	402.00 CIII	250.00 111/111111

Samples

Sample ID:	Description:
BH202 and DUP6	

Test Date / Time: 13/01/2022 15:20:37

Project: Mobuoy (3) **Operator Name:** JB

Location Name: BH203 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 3 m Top of Screen: 1 m

Total Depth: 4.32 m

Initial Depth to Water: 3.55 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 3.9 m Estimated Total Volume Pumped:

1500 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.54 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Borehole opened and strong gasses released.

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
13/01/2022 15:20	00:00	6.67 pH	9.49 °C	1,946.3 μS/cm	1.82 mg/L	128.99 NTU	-80.4 mV	355.00 cm	250.00 ml/min
13/01/2022 15:21	01:00	6.67 pH	9.37 °C	1,945.4 μS/cm	1.57 mg/L	179.27 NTU	-83.1 mV	355.00 cm	250.00 ml/min
13/01/2022 15:22	02:00	6.68 pH	9.30 °C	1,945.2 μS/cm	1.43 mg/L	112.41 NTU	-87.3 mV	355.00 cm	250.00 ml/min
13/01/2022 15:23	03:00	6.68 pH	9.28 °C	1,946.5 μS/cm	1.40 mg/L	138.05 NTU	-88.3 mV	355.00 cm	250.00 ml/min
13/01/2022 15:24	04:00	6.68 pH	9.18 °C	1,945.4 μS/cm	1.44 mg/L	115.39 NTU	-89.6 mV	355.00 cm	250.00 ml/min
13/01/2022 15:25	05:00	6.68 pH	9.13 °C	1,950.7 μS/cm	1.38 mg/L	92.34 NTU	-91.2 mV	355.00 cm	250.00 ml/min
13/01/2022 15:26	06:00	6.68 pH	9.11 °C	1,954.2 μS/cm	1.29 mg/L	68.98 NTU	-92.8 mV	355.00 cm	250.00 ml/min

Samples

Sample ID:	Description:
BH203 and DUP7	Duplicate taken

Test Date / Time: 14/01/2022 10:50:15

Project: Mobuoy Operator Name: JB

Location Name: BH204
Well Diameter: 10 cm
Casing Type: Plastic
Screen Length: 3.5 m

Top of Screen: 2 m Total Depth: 5.87 m

Initial Depth to Water: 2.83 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 4.3 m Estimated Total Volume Pumped:

3250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.84 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
14/01/2022 10:50	00:00	7.10 pH	8.29 °C	848.92 μS/cm	2.67 mg/L	278.61 NTU	42.7 mV	283.00 cm	250.00 ml/min
14/01/2022 10:51	01:00	6.72 pH	8.39 °C	851.30 μS/cm	1.26 mg/L	214.37 NTU	66.4 mV	283.00 cm	250.00 ml/min
14/01/2022 10:52	02:00	6.64 pH	8.44 °C	847.85 μS/cm	1.02 mg/L	222.42 NTU	74.5 mV	283.00 cm	250.00 ml/min
14/01/2022 10:53	03:00	6.62 pH	8.46 °C	841.49 μS/cm	1.06 mg/L	182.23 NTU	79.3 mV	283.00 cm	250.00 ml/min
14/01/2022 10:54	04:00	6.61 pH	8.43 °C	842.56 μS/cm	1.38 mg/L	168.26 NTU	81.9 mV	283.00 cm	250.00 ml/min
14/01/2022 10:55	05:00	6.60 pH	8.41 °C	844.20 μS/cm	0.99 mg/L	204.49 NTU	83.9 mV	283.00 cm	250.00 ml/min
14/01/2022 10:56	06:00	6.58 pH	8.41 °C	839.28 μS/cm	1.02 mg/L	182.21 NTU	86.3 mV	283.00 cm	250.00 ml/min
14/01/2022 10:57	07:00	6.57 pH	8.42 °C	837.88 µS/cm	1.16 mg/L	168.20 NTU	86.0 mV	283.00 cm	250.00 ml/min
14/01/2022 10:58	08:00	6.59 pH	8.42 °C	836.47 µS/cm	1.01 mg/L	183.29 NTU	83.7 mV	283.00 cm	250.00 ml/min
14/01/2022 10:59	09:00	6.59 pH	8.40 °C	836.55 µS/cm	0.82 mg/L	144.39 NTU	83.7 mV	283.00 cm	250.00 ml/min
14/01/2022 11:00	10:00	6.58 pH	8.37 °C	836.34 μS/cm	0.78 mg/L	151.78 NTU	82.3 mV	283.00 cm	250.00 ml/min
14/01/2022 11:01	11:00	6.58 pH	8.35 °C	836.69 µS/cm	0.70 mg/L	197.98 NTU	79.8 mV	283.00 cm	250.00 ml/min
14/01/2022 11:02	12:00	6.58 pH	8.35 °C	837.09 μS/cm	0.65 mg/L	137.51 NTU	78.9 mV	283.00 cm	250.00 ml/min
14/01/2022 11:03	13:00	6.58 pH	8.35 °C	838.03 μS/cm	0.61 mg/L	165.03 NTU	78.4 mV	283.00 cm	250.00 ml/min

Samples

Sample ID:	Description:
BH204	GW

Test Date / Time: 11/01/2022 14:17:50

Project: Mobuoy Operator Name: JB

Location Name: BH205
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 3 m

Top of Screen: 4.6 m Total Depth: 7.75 m

Initial Depth to Water: 5.35 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 6.2 m Estimated Total Volume Pumped:

4250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 5.37 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
11/01/2022 14:17	00:00	6.42 pH	10.56 °C	1,151.8 μS/cm	1.88 mg/L	67.30 NTU	-141.7 mV	5.35 m	250.00 ml/min
11/01/2022 14:18	01:00	6.49 pH	10.63 °C	1,148.6 μS/cm	0.70 mg/L	67.14 NTU	-150.3 mV	5.35 m	250.00 ml/min
11/01/2022 14:19	02:00	6.51 pH	10.52 °C	1,149.0 μS/cm	0.80 mg/L	66.08 NTU	-152.9 mV	5.35 m	250.00 ml/min
11/01/2022 14:20	03:00	6.52 pH	10.37 °C	1,173.5 μS/cm	1.04 mg/L	59.07 NTU	-157.1 mV	5.35 m	250.00 ml/min
11/01/2022 14:21	04:00	6.53 pH	10.25 °C	1,213.9 μS/cm	0.87 mg/L	54.44 NTU	-160.3 mV	5.35 m	250.00 ml/min
11/01/2022 14:22	05:00	6.54 pH	10.19 °C	1,237.5 μS/cm	0.81 mg/L	42.08 NTU	-160.9 mV	5.35 m	250.00 ml/min
11/01/2022 14:23	06:00	6.57 pH	10.16 °C	1,277.8 μS/cm	0.82 mg/L	43.43 NTU	-166.2 mV	5.35 m	250.00 ml/min
11/01/2022 14:24	07:00	6.57 pH	10.14 °C	1,348.2 μS/cm	0.72 mg/L	48.95 NTU	-167.4 mV	5.35 m	250.00 ml/min
11/01/2022 14:25	08:00	6.59 pH	10.12 °C	1,350.3 μS/cm	0.91 mg/L	41.48 NTU	-166.0 mV	5.35 m	250.00 ml/min
11/01/2022 14:26	09:00	6.60 pH	10.15 °C	1,392.2 μS/cm	0.90 mg/L	37.08 NTU	-170.9 mV	5.35 m	250.00 ml/min
11/01/2022 14:27	10:00	6.60 pH	10.16 °C	1,407.9 μS/cm	0.72 mg/L	34.76 NTU	-173.0 mV	5.35 m	250.00 ml/min
11/01/2022 14:28	11:00	6.61 pH	10.17 °C	1,418.2 μS/cm	0.73 mg/L	37.53 NTU	-170.5 mV	5.35 m	250.00 ml/min
11/01/2022 14:29	12:00	6.62 pH	10.16 °C	1,446.9 μS/cm	0.66 mg/L	33.42 NTU	-174.7 mV	5.35 m	250.00 ml/min
11/01/2022 14:30	13:00	6.63 pH	10.15 °C	1,514.1 μS/cm	0.61 mg/L	22.76 NTU	-175.2 mV	5.35 m	250.00 ml/min
11/01/2022 14:31	14:00	6.64 pH	10.16 °C	1,529.3 μS/cm	0.49 mg/L	24.94 NTU	-178.4 mV	5.35 m	250.00 ml/min

11/01/2022	15:00	6.64 pH	10.17 °C	1,526.7	0.50 mg/L	25.88 NTU	-175.6 mV	5.35 m	250.00 ml/min
14:32				μS/cm					
11/01/2022	16:00	6.65 pH	10.02 °C	1,529.0	0.51 mg/L	35.75 NTU	-176.8 mV	5.35 m	250.00 ml/min
14:33				μS/cm					
11/01/2022	17:00	6.65 pH	10.18 °C	1,504.3	0.47 mg/L	37.66 NTU	-181.3 mV	5.35 m	250.00 ml/min
14:34				μS/cm					

Samples

Sample ID:	Description:				
BH205	GW				

Test Date / Time: 12/01/2022 12:26:30

Project: Mobuoy (2) Operator Name: JB

Location Name: BH206 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 3 m Top of Screen: 4 m

Total Depth: 7.15 m

Initial Depth to Water: 4.93 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 5.6 m Estimated Total Volume Pumped:

1250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 4.92 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
12/01/2022 12:26	00:00	6.76 pH	11.69 °C	3,032.3 μS/cm	0.86 mg/L	127.67 NTU	-103.1 mV	4.93 m	250.00 ml/min
12/01/2022 12:27	01:00	6.76 pH	11.56 °C	3,048.8 µS/cm	0.60 mg/L	145.30 NTU	-105.3 mV	4.93 m	250.00 ml/min
12/01/2022 12:28	02:00	6.75 pH	11.42 °C	3,053.7 μS/cm	0.53 mg/L	79.06 NTU	-107.7 mV	4.93 m	250.00 ml/min
12/01/2022 12:29	03:00	6.75 pH	11.46 °C	3,073.2 μS/cm	0.53 mg/L	65.75 NTU	-108.4 mV	4.93 m	250.00 ml/min
12/01/2022 12:30	04:00	6.75 pH	11.53 °C	3,078.1 µS/cm	0.54 mg/L	60.47 NTU	-107.8 mV	4.93 m	250.00 ml/min
12/01/2022 12:31	05:00	6.75 pH	11.59 °C	3,080.5 µS/cm	0.56 mg/L	56.75 NTU	-106.8 mV	4.93 m	250.00 ml/min

Samples

Sample ID:	Description:
BH206	GW

Test Date / Time: 13/01/2022 14:04:06

Project: Mobuoy **Operator Name:** JC

Location Name: BH207
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 4 m
Top of Screen: 5 m
Total Depth: 6.33 m

Initial Depth to Water: 2.43 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 5.5 m Estimated Total Volume Pumped:

2000 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.7 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
13/01/2022 14:04	00:00	6.91 pH	10.26 °C	2,186.3 μS/cm	2.57 mg/L	-49.1 mV	2.43 m	250.00 ml/min
13/01/2022 14:05	01:00	6.91 pH	10.16 °C	2,185.9 μS/cm	1.59 mg/L	-52.1 mV	2.43 m	250.00 ml/min
13/01/2022 14:06	02:00	6.91 pH	10.16 °C	2,188.1 μS/cm	1.13 mg/L	-54.8 mV	2.43 m	250.00 ml/min
13/01/2022 14:07	03:00	6.90 pH	10.15 °C	2,187.5 μS/cm	0.97 mg/L	-57.3 mV	2.43 m	250.00 ml/min
13/01/2022 14:08	04:00	6.90 pH	10.17 °C	2,188.0 μS/cm	0.81 mg/L	-59.4 mV	2.43 m	250.00 ml/min
13/01/2022 14:09	05:00	6.90 pH	10.18 °C	2,187.2 μS/cm	0.70 mg/L	-61.0 mV	2.43 m	250.00 ml/min
13/01/2022 14:10	06:00	6.90 pH	10.12 °C	2,185.2 μS/cm	0.62 mg/L	-61.8 mV	2.43 m	250.00 ml/min
13/01/2022 14:11	07:00	6.90 pH	10.11 °C	2,184.8 μS/cm	0.60 mg/L	-62.7 mV	2.43 m	250.00 ml/min
13/01/2022 14:12	08:00	6.90 pH	10.07 °C	2,182.4 μS/cm	0.62 mg/L	-63.0 mV	2.43 m	250.00 ml/min

Sample ID:	Description:
BH207	

Test Date / Time: 11/01/2022 11:43:21

Project: Mobuoy Operator Name: JB

Location Name: BH208
Well Diameter: 5 cm
Casing Type: Plastic

Screen Length: 2.6 m Top of Screen: 0.7 m Total Depth: 3.26 m

Initial Depth to Water: 1.89 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 2.5 m Estimated Total Volume Pumped:

4750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 1.93 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
11/01/2022 11:43	00:00	7.09 pH	9.27 °C	395.69 µS/cm	2.52 mg/L	32.63 NTU	-6.1 mV	1.89 m	250.00 ml/min
11/01/2022 11:44	01:00	6.60 pH	9.31 °C	387.87 μS/cm	0.99 mg/L	31.09 NTU	21.2 mV	1.89 m	250.00 ml/min
11/01/2022 11:45	02:00	6.42 pH	9.32 °C	393.26 μS/cm	0.83 mg/L	31.50 NTU	28.1 mV	1.89 m	250.00 ml/min
11/01/2022 11:46	03:00	6.33 pH	9.36 °C	372.59 μS/cm	0.72 mg/L	26.50 NTU	31.6 mV	1.89 m	250.00 ml/min
11/01/2022 11:47	04:00	6.29 pH	9.38 °C	369.49 μS/cm	0.58 mg/L	29.86 NTU	34.5 mV	1.89 m	250.00 ml/min
11/01/2022 11:48	05:00	6.26 pH	9.39 °C	370.20 μS/cm	0.47 mg/L	19.75 NTU	37.3 mV	1.89 m	250.00 ml/min
11/01/2022 11:49	06:00	6.24 pH	9.42 °C	366.31 µS/cm	0.42 mg/L	29.62 NTU	39.7 mV	1.89 m	250.00 ml/min
11/01/2022 11:50	07:00	6.23 pH	9.49 °C	364.72 μS/cm	0.38 mg/L	17.32 NTU	40.2 mV	1.89 m	250.00 ml/min
11/01/2022 11:51	08:00	6.23 pH	9.51 °C	366.31 µS/cm	0.37 mg/L	18.24 NTU	40.3 mV	1.89 m	250.00 ml/min
11/01/2022 11:52	09:00	6.22 pH	9.52 °C	367.02 μS/cm	0.35 mg/L	21.09 NTU	40.6 mV	1.89 m	250.00 ml/min
11/01/2022 11:53	10:00	6.22 pH	9.51 °C	366.12 μS/cm	0.37 mg/L	15.80 NTU	41.5 mV	1.89 m	250.00 ml/min
11/01/2022 11:54	11:00	6.22 pH	9.51 °C	368.54 μS/cm	0.32 mg/L	16.63 NTU	40.9 mV	1.89 m	250.00 ml/min
11/01/2022 11:55	12:00	6.22 pH	9.51 °C	367.85 μS/cm	0.33 mg/L	12.57 NTU	40.9 mV	1.89 m	250.00 ml/min
11/01/2022 11:56	13:00	6.22 pH	9.50 °C	370.06 μS/cm	0.34 mg/L	13.82 NTU	41.2 mV	1.89 m	250.00 ml/min
11/01/2022 11:57	14:00	6.21 pH	9.54 °C	371.44 μS/cm	0.35 mg/L	19.84 NTU	41.6 mV	1.89 m	250.00 ml/min

11/01/2022 11:58	15:00	6.21 pH	9.55 °C	371.13 μS/cm	0.38 mg/L	14.53 NTU	40.9 mV	1.89 m	250.00 ml/min
11/01/2022 11:59	16:00	6.21 pH	9.57 °C	372.51 μS/cm	0.34 mg/L	16.24 NTU	40.3 mV	1.89 m	250.00 ml/min
11/01/2022 12:00	17:00	6.21 pH	9.54 °C	372.67 μS/cm	0.29 mg/L	6.44 NTU	39.4 mV	1.89 m	250.00 ml/min
11/01/2022 12:01	18:00	6.21 pH	9.52 °C	373.01 μS/cm	0.28 mg/L	4.83 NTU	38.8 mV	1.89 m	250.00 ml/min
11/01/2022 12:02	19:00	6.21 pH	9.49 °C	373.54 μS/cm	0.28 mg/L	4.10 NTU	38.3 mV	1.89 m	250.00 ml/min

Samples

Sample ID:	Description:
BH208	

Test Date / Time: 11/01/2022 10:30:31

Project: Mobuoy (2) Operator Name: JB

Location Name: BH209
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 2.9 m
Top of Screen: 1 m

Total Depth: 4.9 m

Initial Depth to Water: 2.24 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 4 m Estimated Total Volume Pumped:

3250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.58 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
11/01/2022 10:30	00:00	6.65 pH	9.17 °C	3,466.9 μS/cm	0.50 mg/L	0.00 NTU	-190.2 mV	2.24 m	250.00 ml/min
11/01/2022 10:31	01:00	6.70 pH	9.07 °C	3,437.8 μS/cm	0.43 mg/L	0.52 NTU	-188.8 mV	2.24 m	250.00 ml/min
11/01/2022 10:32	02:00	6.71 pH	9.05 °C	3,408.7 µS/cm	0.45 mg/L	2.64 NTU	-202.3 mV	2.24 m	250.00 ml/min
11/01/2022 10:33	03:00	6.72 pH	9.02 °C	3,373.9 µS/cm	0.38 mg/L	0.28 NTU	-207.4 mV	2.24 m	250.00 ml/min
11/01/2022 10:34	04:00	6.73 pH	9.05 °C	3,349.4 µS/cm	0.35 mg/L	0.79 NTU	-208.5 mV	2.24 m	250.00 ml/min
11/01/2022 10:35	05:00	6.73 pH	9.03 °C	3,339.7 µS/cm	0.32 mg/L	1.41 NTU	-209.2 mV	2.24 m	250.00 ml/min
11/01/2022 10:36	06:00	6.73 pH	9.06 °C	3,332.0 µS/cm	0.31 mg/L	20.36 NTU	-211.5 mV	2.24 m	250.00 ml/min
11/01/2022 10:37	07:00	6.74 pH	9.06 °C	3,327.0 μS/cm	0.32 mg/L	1.18 NTU	-212.4 mV	2.24 m	250.00 ml/min
11/01/2022 10:38	08:00	6.74 pH	9.01 °C	3,312.1 µS/cm	0.27 mg/L	1.32 NTU	-212.5 mV	2.24 m	250.00 ml/min
11/01/2022 10:39	09:00	6.73 pH	9.04 °C	3,333.1 µS/cm	0.25 mg/L	1.73 NTU	-214.9 mV	2.24 m	250.00 ml/min
11/01/2022 10:40	10:00	6.73 pH	9.14 °C	3,331.4 μS/cm	0.23 mg/L	6.07 NTU	-215.9 mV	2.24 m	250.00 ml/min
11/01/2022 10:41	11:00	6.74 pH	9.21 °C	3,285.7 μS/cm	0.22 mg/L	6.62 NTU	-217.8 mV	2.24 m	250.00 ml/min
11/01/2022 10:42	12:00	6.74 pH	9.21 °C	3,249.1 µS/cm	0.23 mg/L	5.15 NTU	-219.6 mV	2.24 m	250.00 ml/min
11/01/2022 10:43	13:00	6.74 pH	9.27 °C	3,247.5 μS/cm	0.20 mg/L	4.50 NTU	-220.2 mV	2.24 m	250.00 ml/min

Samples

Sample ID:	Description:
BH209	GW

Test Date / Time: 12/01/2022 15:21:17

Project: Mobuoy **Operator Name:** JC

Location Name: BH212
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 3 m
Top of Screen: 1 m
Total Depth: 5.22 m

Initial Depth to Water: 3.14 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 2.7 m Estimated Total Volume Pumped:

2000 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.33 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
12/01/2022 15:21	00:00	7.43 pH	10.02 °C	617.46 μS/cm	4.66 mg/L		-28.0 mV	3.14 m	250.00 ml/min
12/01/2022 15:22	01:00	7.46 pH	9.95 °C	615.67 µS/cm	2.26 mg/L		-30.6 mV	3.14 m	250.00 ml/min
12/01/2022 15:23	02:00	7.45 pH	9.85 °C	615.31 µS/cm	1.51 mg/L		-30.9 mV	3.14 m	250.00 ml/min
12/01/2022 15:24	03:00	7.45 pH	9.79 °C	615.62 µS/cm	1.22 mg/L		-30.9 mV	3.14 m	250.00 ml/min
12/01/2022 15:25	04:00	7.45 pH	9.79 °C	616.06 µS/cm	1.04 mg/L		-30.4 mV	3.14 m	250.00 ml/min
12/01/2022 15:26	05:00	7.45 pH	9.81 °C	616.42 μS/cm	0.94 mg/L		-30.2 mV	3.14 m	250.00 ml/min
12/01/2022 15:27	06:00	7.45 pH	9.83 °C	616.28 μS/cm	0.98 mg/L		-29.7 mV	3.14 m	250.00 ml/min
12/01/2022 15:28	07:00	7.45 pH	9.82 °C	616.03 μS/cm	1.07 mg/L		-29.3 mV	3.14 m	250.00 ml/min
12/01/2022 15:29	08:00	7.45 pH	9.80 °C	615.91 µS/cm	1.12 mg/L		-28.9 mV	3.14 m	250.00 ml/min

Sample ID:	Description:
BH212	

Test Date / Time: 10/01/2022 11:49:57

Project: Mobuoy **Operator Name:** JC

Location Name: BH213
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 5.2 m
Top of Screen: 1 m
Total Depth: 6.2 m

Initial Depth to Water: 2.51 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 4.3 m Estimated Total Volume Pumped:

2450 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min Final Draw Down: 2.67 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
10/01/2022 11:49	00:00	6.93 pH	11.95 °C	3,665.1 μS/cm	6.24 mg/L		-24.3 mV	2.51 m	350.00 ml/min
10/01/2022 11:50	01:00	6.93 pH	12.04 °C	3,645.3 µS/cm	2.98 mg/L		-40.6 mV	2.51 m	350.00 ml/min
10/01/2022 11:51	02:00	6.93 pH	12.02 °C	3,644.2 µS/cm	2.09 mg/L		-49.2 mV	2.51 m	350.00 ml/min
10/01/2022 11:52	03:00	6.93 pH	12.01 °C	3,654.7 μS/cm	1.84 mg/L		-55.4 mV	2.51 m	350.00 ml/min
10/01/2022 11:53	04:00	6.93 pH	12.00 °C	3,675.2 μS/cm	1.77 mg/L		-60.0 mV	2.51 m	350.00 ml/min
10/01/2022 11:54	05:00	6.93 pH	11.99 °C	3,682.5 μS/cm	1.74 mg/L		-63.5 mV	2.51 m	350.00 ml/min
10/01/2022 11:55	06:00	6.93 pH	11.96 °C	3,704.0 µS/cm	1.72 mg/L		-66.2 mV	2.51 m	350.00 ml/min
10/01/2022 11:56	07:00	6.93 pH	11.97 °C	3,727.0 μS/cm	1.70 mg/L		-68.5 mV	2.51 m	350.00 ml/min

Sample ID:	Description:
BH213	

Test Date / Time: 10/01/2022 13:22:48

Project: Mobuoy
Operator Name: JC

Location Name: BH214
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 8.4 m
Top of Screen: 1 m
Total Depth: 9.11 m

Initial Depth to Water: 5.45 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 7.3 m Estimated Total Volume Pumped:

1250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 7.02 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Unable to retrieve whole suite Only got 2xvial and 1xglass 1I

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
10/01/2022 13:22	00:00	7.24 pH	12.58 °C	8,685.9 μS/cm	1.82 mg/L		-73.3 mV	5.45 m	250.00 ml/min
10/01/2022 13:23	01:00	7.25 pH	12.60 °C	8,703.6 μS/cm	1.80 mg/L		-79.8 mV	5.45 m	250.00 ml/min
10/01/2022 13:24	02:00	7.25 pH	12.63 °C	8,720.2 μS/cm	1.76 mg/L		-84.1 mV	5.45 m	250.00 ml/min
10/01/2022 13:25	03:00	7.25 pH	12.64 °C	8,734.4 μS/cm	1.74 mg/L		-87.1 mV	5.45 m	250.00 ml/min
10/01/2022 13:26	04:00	7.25 pH	12.66 °C	8,746.3 μS/cm	1.72 mg/L		-89.5 mV	5.45 m	250.00 ml/min
10/01/2022 13:27	05:00	7.25 pH	12.67 °C	8,755.5 μS/cm	1.71 mg/L		-91.6 mV	5.45 m	250.00 ml/min

Sample ID:	Description:
BH214	

Test Date / Time: 10/01/2022 12:33:19

Project: Mobuoy **Operator Name:** JC

Location Name: BH215
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 10.5 m
Top of Screen: 1 m
Total Depth: 9.28 m

Initial Depth to Water: 2.55 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 5.9 m Estimated Total Volume Pumped:

1750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.03 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
10/01/2022 12:33	00:00	6.96 pH	11.58 °C	3,473.0 μS/cm	7.01 mg/L		-28.9 mV	2.55 m	250.00 ml/min
10/01/2022 12:34	01:00	6.95 pH	11.45 °C	3,472.1 µS/cm	3.25 mg/L		-56.8 mV	2.55 m	250.00 ml/min
10/01/2022 12:35	02:00	6.95 pH	11.45 °C	3,474.6 μS/cm	2.34 mg/L		-66.1 mV	2.55 m	250.00 ml/min
10/01/2022 12:36	03:00	6.94 pH	11.37 °C	3,482.2 μS/cm	1.99 mg/L		-71.7 mV	2.55 m	250.00 ml/min
10/01/2022 12:37	04:00	6.94 pH	11.43 °C	3,482.7 μS/cm	1.91 mg/L		-75.6 mV	2.55 m	250.00 ml/min
10/01/2022 12:38	05:00	6.94 pH	11.36 °C	3,475.1 μS/cm	2.01 mg/L		-77.2 mV	2.55 m	250.00 ml/min
10/01/2022 12:39	06:00	6.94 pH	11.31 °C	3,479.4 µS/cm	2.02 mg/L		-78.5 mV	2.55 m	250.00 ml/min
10/01/2022 12:40	07:00	6.94 pH	11.28 °C	3,482.9 µS/cm	1.98 mg/L		-79.7 mV	2.55 m	250.00 ml/min

Sample ID:	Description:
BH215	

Test Date / Time: 13/01/2022 09:46:46

Project: Mobuoy **Operator Name:** JB

Location Name: BH216
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 1 m
Top of Screen: 5 m

Total Depth: 5.87 m

Initial Depth to Water: 0.67 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 3.3 m Estimated Total Volume Pumped:

2758.333 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.77 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
13/01/2022 09:46	00:00	7.03 pH	8.47 °C	569.85 μS/cm	1.51 mg/L	49.76 NTU	-28.9 mV	0.67 m	250.00 ml/min
13/01/2022 09:47	01:00	6.93 pH	8.27 °C	571.43 μS/cm	1.07 mg/L	31.28 NTU	-23.4 mV	0.67 m	250.00 ml/min
13/01/2022 09:48	02:00	6.84 pH	8.12 °C	571.25 μS/cm	0.89 mg/L	29.09 NTU	-18.9 mV	0.67 m	250.00 ml/min
13/01/2022 09:49	03:00	6.81 pH	8.20 °C	574.63 μS/cm	0.77 mg/L	16.62 NTU	-18.0 mV	0.67 m	250.00 ml/min
13/01/2022 09:50	04:00	6.80 pH	8.36 °C	576.96 μS/cm	0.75 mg/L	15.11 NTU	-16.3 mV	0.67 m	250.00 ml/min
13/01/2022 09:51	05:00	6.81 pH	8.43 °C	573.27 μS/cm	0.78 mg/L	29.66 NTU	-14.5 mV	0.67 m	250.00 ml/min
13/01/2022 09:52	06:00	6.79 pH	8.01 °C	570.14 μS/cm	0.48 mg/L	45.48 NTU	-14.4 mV	0.67 m	250.00 ml/min
13/01/2022 09:53	07:02	6.77 pH	7.85 °C	569.44 μS/cm	0.39 mg/L	34.84 NTU	-13.7 mV	0.67 m	250.00 ml/min
13/01/2022 09:54	08:02	6.76 pH	7.79 °C	570.50 μS/cm	0.36 mg/L	37.86 NTU	-13.4 mV	0.67 m	250.00 ml/min
13/01/2022 09:55	09:02	6.74 pH	7.79 °C	572.09 μS/cm	0.30 mg/L	35.63 NTU	-13.2 mV	0.67 m	250.00 ml/min
13/01/2022 09:56	10:02	6.74 pH	7.74 °C	571.91 μS/cm	0.28 mg/L	38.96 NTU	-13.6 mV	0.67 m	250.00 ml/min
13/01/2022 09:57	11:02	6.74 pH	7.73 °C	572.03 μS/cm	0.27 mg/L	33.34 NTU	-13.7 mV	0.67 m	250.00 ml/min

Sample ID:	Description:
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Test Date / Time: 13/01/2022 10:32:52

Project: Mobuoy Operator Name: JB

Location Name: BH217
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 5 m
Top of Screen: 1 m
Total Depth: 5.96 m

Initial Depth to Water: 1.14 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 3.6 m Estimated Total Volume Pumped:

1000 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 1.17 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.3	+/- 3 %	+/- 0.2	+/- 10	+/- 20		
13/01/2022	00:00	7.33 pH	8.90 °C	1,441.9	0.58 mg/L	5.77 NTU	-141.7 mV	1.14 m	250.00 ml/min
10:32			μS/cm	Ů					
13/01/2022	01:00	7.33 pH	8.86 °C	1,439.6	0.60 mg/L	9.98 NTU	-141.2 mV	1.14 m	250.00 ml/min
10:33	01.00	7.33 pm	8.80 C	μS/cm	0.60 mg/L	9.90 1110	-141.21110	1.14 111	230.00 111/111111
13/01/2022	02:00	7.34 pH	8.75 °C	1,447.0	0.63 mg/L	10.82 NTU	-144.0 mV	1.14 m	250.00 ml/min
10:34	02.00	7.34 μπ	0.73 C	μS/cm	0.03 mg/L	10.62 N10	-144.0 1110	1.14 m	250.00 111/111111
13/01/2022	03:00	7.34 pH	8.79 °C	1,450.0	0.61 mg/L	8.10 NTU	-147.6 mV	1.14 m	250.00 ml/min
10:35	03.00	7.34 pm	8.79 C	μS/cm	0.61 mg/L	6. TO IN TO	-147.01110	1.14 111	250.00 1111/111111
13/01/2022	04:00	7.34 pH	8.83 °C	1,450.2	0.54 mg/L	7.54 NTU	-150.9 mV	1.14 m	250.00 ml/min
10:36	04.00	7.54 p⊓	0.03	μS/cm	0.54 Mg/L	7.54 NTU	-130.9 1110	1.14 III	250.00 m/mm

Samples

Sample ID:	Description:
BH217	

Test Date / Time: 13/01/2022 12:01:52

Project: Mobuoy Operator Name: JB

Location Name: BH218
Well Diameter: 5 cm

Casing Type: Plastic Screen Length: 2.7 m Top of Screen: 2.3 m Total Depth: 3.5 m

Initial Depth to Water: 2.6 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 2.6 m Estimated Total Volume Pumped:

2000 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
13/01/2022 12:01	00:00	7.10 pH	9.56 °C	7,859.9 μS/cm	0.62 mg/L	29.63 NTU	-102.6 mV	2.60 m	250.00 ml/min
13/01/2022 12:02	01:00	7.11 pH	9.34 °C	9,497.6 μS/cm	0.60 mg/L	36.87 NTU	-115.1 mV	2.60 m	250.00 ml/min
13/01/2022 12:03	02:00	7.12 pH	9.85 °C	9,683.5 μS/cm	0.27 mg/L	34.11 NTU	-138.9 mV	2.60 m	250.00 ml/min
13/01/2022 12:04	03:00	7.12 pH	9.96 °C	9,761.2 μS/cm	0.19 mg/L	27.55 NTU	-145.8 mV	2.60 m	250.00 ml/min
13/01/2022 12:05	04:00	7.12 pH	9.96 °C	9,718.5 μS/cm	0.16 mg/L	30.37 NTU	-146.7 mV	2.60 m	250.00 ml/min
13/01/2022 12:06	05:00	7.12 pH	9.92 °C	9,724.1 μS/cm	0.19 mg/L	24.35 NTU	-142.7 mV	2.60 m	250.00 ml/min
13/01/2022 12:07	06:00	7.12 pH	9.88 °C	9,754.0 μS/cm	0.22 mg/L	15.56 NTU	-142.8 mV	2.60 m	250.00 ml/min
13/01/2022 12:08	07:00	7.12 pH	9.84 °C	9,768.3 μS/cm	0.24 mg/L	24.79 NTU	-142.3 mV	2.60 m	250.00 ml/min
13/01/2022 12:09	08:00	7.12 pH	9.83 °C	9,798.9 µS/cm	0.24 mg/L	14.44 NTU	-142.2 mV	2.60 m	250.00 ml/min

Sample ID:	Description:
BH218	

Test Date / Time: 13/01/2022 12:19:53

Project: Mobuoy **Operator Name:** JC

Location Name: BH219
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 4.4 m
Top of Screen: 1 m
Total Depth: 5.7 m

Initial Depth to Water: 2.25 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 4 m Estimated Total Volume Pumped:

2250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.3 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
13/01/2022 12:19	00:00	6.96 pH	9.91 °C	1,186.0 μS/cm	2.05 mg/L	-48.0 mV	2.25 m	250.00 ml/min
13/01/2022 12:20	01:00	6.97 pH	9.96 °C	1,188.3 μS/cm	1.39 mg/L	-51.1 mV	2.25 m	250.00 ml/min
13/01/2022 12:21	02:00	6.97 pH	10.00 °C	1,188.6 μS/cm	1.07 mg/L	-53.1 mV	2.25 m	250.00 ml/min
13/01/2022 12:22	03:00	6.97 pH	10.01 °C	1,189.6 μS/cm	0.95 mg/L	-54.6 mV	2.25 m	250.00 ml/min
13/01/2022 12:23	04:00	6.98 pH	10.03 °C	1,189.1 μS/cm	0.81 mg/L	-55.9 mV	2.25 m	250.00 ml/min
13/01/2022 12:24	05:00	6.98 pH	10.03 °C	1,189.5 μS/cm	0.72 mg/L	-56.7 mV	2.25 m	250.00 ml/min
13/01/2022 12:25	06:00	6.98 pH	10.00 °C	1,189.3 µS/cm	0.69 mg/L	-57.3 mV	2.25 m	250.00 ml/min
13/01/2022 12:26	07:00	6.99 pH	9.98 °C	1,190.0 μS/cm	0.71 mg/L	-57.6 mV	2.25 m	250.00 ml/min
13/01/2022 12:27	08:00	6.99 pH	9.98 °C	1,190.9 µS/cm	0.67 mg/L	-57.4 mV	2.25 m	250.00 ml/min
13/01/2022 12:28	09:00	6.99 pH	10.01 °C	1,191.4 μS/cm	0.62 mg/L	-56.8 mV	2.25 m	250.00 ml/min

Sample ID: Description:

BH219		

Test Date / Time: 13/01/2022 11:07:10

Project: Mobuoy **Operator Name:** JC

Location Name: BH220
Well Diameter: 15 cm
Casing Type: Plastic
Screen Length: 3.5 m
Top of Screen: 1 m
Total Depth: 5.11 m

Initial Depth to Water: 2.18 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 3.7 m Estimated Total Volume Pumped:

2000 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.25 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
13/01/2022 11:07	00:00	7.02 pH	8.88 °C	1,341.3 μS/cm	3.72 mg/L		-65.1 mV	2.18 m	250.00 ml/min
13/01/2022 11:08	01:00	7.02 pH	8.83 °C	1,340.3 μS/cm	1.94 mg/L		-64.1 mV	2.18 m	250.00 ml/min
13/01/2022 11:09	02:00	7.02 pH	8.79 °C	1,343.0 μS/cm	1.23 mg/L		-64.1 mV	2.18 m	250.00 ml/min
13/01/2022 11:10	03:00	7.01 pH	8.79 °C	1,343.5 μS/cm	0.92 mg/L		-64.3 mV	2.18 m	250.00 ml/min
13/01/2022 11:11	04:00	7.01 pH	8.81 °C	1,344.4 μS/cm	0.76 mg/L		-64.8 mV	2.18 m	250.00 ml/min
13/01/2022 11:12	05:00	7.01 pH	8.81 °C	1,343.8 μS/cm	0.65 mg/L		-65.4 mV	2.18 m	250.00 ml/min
13/01/2022 11:13	06:00	7.01 pH	8.81 °C	1,346.0 μS/cm	0.60 mg/L		-66.0 mV	2.18 m	250.00 ml/min
13/01/2022 11:14	07:00	7.01 pH	8.80 °C	1,347.5 μS/cm	0.62 mg/L		-66.3 mV	2.18 m	250.00 ml/min
13/01/2022 11:15	08:00	7.01 pH	8.79 °C	1,345.2 μS/cm	0.64 mg/L		-66.7 mV	2.18 m	250.00 ml/min

Sample ID:	Description:
BH220	

Test Date / Time: 12/01/2022 15:49:26

Project: Mobuoy (3) **Operator Name:** JC

Location Name: BH221
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 3 m
Top of Screen: 3.6 m
Total Depth: 6.21 m

Initial Depth to Water: 2.92 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 4.6 m Estimated Total Volume Pumped:

2250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.15 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
12/01/2022 15:49	00:00	7.32 pH	9.97 °C	747.80 μS/cm	3.47 mg/L		-41.8 mV	2.92 m	250.00 ml/min
12/01/2022 15:50	01:00	7.32 pH	9.80 °C	752.63 µS/cm	1.79 mg/L		-58.9 mV	2.92 m	250.00 ml/min
12/01/2022 15:51	02:00	7.32 pH	9.71 °C	748.13 μS/cm	1.24 mg/L		-66.6 mV	2.92 m	250.00 ml/min
12/01/2022 15:52	03:00	7.32 pH	9.67 °C	746.37 µS/cm	1.02 mg/L		-71.5 mV	2.92 m	250.00 ml/min
12/01/2022 15:53	04:00	7.32 pH	9.66 °C	747.38 µS/cm	0.94 mg/L		-74.8 mV	2.92 m	250.00 ml/min
12/01/2022 15:54	05:00	7.33 pH	9.66 °C	746.46 µS/cm	0.78 mg/L		-77.6 mV	2.92 m	250.00 ml/min
12/01/2022 15:55	06:00	7.32 pH	9.63 °C	748.04 µS/cm	0.70 mg/L		-79.2 mV	2.92 m	250.00 ml/min
12/01/2022 15:56	07:00	7.32 pH	9.61 °C	747.02 μS/cm	0.64 mg/L		-80.5 mV	2.92 m	250.00 ml/min
12/01/2022 15:57	08:00	7.32 pH	9.59 °C	746.44 μS/cm	0.60 mg/L		-81.6 mV	2.92 m	250.00 ml/min
12/01/2022 15:58	09:00	7.32 pH	9.58 °C	747.11 μS/cm	0.58 mg/L		-82.6 mV	2.92 m	250.00 ml/min

Sample ID: Description:

BH221

Test Date / Time: 12/01/2022 14:16:56

Project: Mobuoy **Operator Name:** JC

Location Name: BH301
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 9 m
Top of Screen: 3 m
Total Depth: 12.31 m

Initial Depth to Water: 7.95 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 10.15 m Estimated Total Volume Pumped:

1500 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 7.72 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
12/01/2022 14:16	00:00	7.02 pH	9.88 °C	800.11 μS/cm	1.65 mg/L		-35.2 mV	7.95 m	250.00 ml/min
12/01/2022 14:17	01:00	7.00 pH	9.89 °C	794.54 μS/cm	1.16 mg/L		-39.6 mV	7.95 m	250.00 ml/min
12/01/2022 14:18	02:00	7.00 pH	9.88 °C	795.81 μS/cm	0.96 mg/L		-42.7 mV	7.95 m	250.00 ml/min
12/01/2022 14:19	03:00	7.00 pH	9.92 °C	792.23 μS/cm	0.85 mg/L		-44.8 mV	7.95 m	250.00 ml/min
12/01/2022 14:20	04:00	7.00 pH	9.95 °C	791.66 μS/cm	0.80 mg/L		-46.4 mV	7.95 m	250.00 ml/min
12/01/2022 14:21	05:00	7.00 pH	9.97 °C	791.51 μS/cm	0.76 mg/L		-47.4 mV	7.95 m	250.00 ml/min
12/01/2022 14:22	06:00	6.99 pH	10.00 °C	791.56 μS/cm	0.73 mg/L		-48.2 mV	7.95 m	250.00 ml/min

Sample ID:	Description:
BH301	

Test Date / Time: 11/01/2022 10:26:16

Project: Mobuoy **Operator Name:** JC

Location Name: BH302
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 10 m
Top of Screen: 6 m
Total Depth: 16.25 m

Initial Depth to Water: 9.76 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 13 m Estimated Total Volume Pumped:

2750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 10.14 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
11/01/2022 10:26	00:00	7.37 pH	7.93 °C	6,349.7 μS/cm	4.31 mg/L		-52.9 mV	9.76 m	250.00 ml/min
11/01/2022 10:27	01:00	7.37 pH	7.98 °C	6,356.0 μS/cm	3.48 mg/L		-58.9 mV	9.76 m	250.00 ml/min
11/01/2022 10:28	02:00	7.36 pH	8.01 °C	6,361.6 μS/cm	3.12 mg/L		-63.6 mV	9.76 m	250.00 ml/min
11/01/2022 10:29	03:00	7.36 pH	8.03 °C	6,357.7 μS/cm	2.85 mg/L		-67.0 mV	9.76 m	250.00 ml/min
11/01/2022 10:30	04:00	7.35 pH	8.05 °C	6,368.5 μS/cm	2.59 mg/L		-70.0 mV	9.76 m	250.00 ml/min
11/01/2022 10:31	05:00	7.35 pH	8.10 °C	6,363.2 μS/cm	2.36 mg/L		-72.4 mV	9.76 m	250.00 ml/min
11/01/2022 10:32	06:00	7.35 pH	8.14 °C	6,372.1 μS/cm	2.22 mg/L		-74.1 mV	9.76 m	250.00 ml/min
11/01/2022 10:33	07:00	7.34 pH	8.19 °C	6,368.3 µS/cm	2.05 mg/L		-76.5 mV	9.76 m	250.00 ml/min
11/01/2022 10:34	08:00	7.34 pH	8.27 °C	6,368.3 µS/cm	1.95 mg/L		-77.6 mV	9.76 m	250.00 ml/min
11/01/2022 10:35	09:00	7.34 pH	8.29 °C	6,381.8 μS/cm	1.86 mg/L		-78.7 mV	9.76 m	250.00 ml/min
11/01/2022 10:36	10:00	7.34 pH	8.32 °C	6,376.2 μS/cm	1.92 mg/L		-79.8 mV	9.76 m	250.00 ml/min
11/01/2022 10:37	11:00	7.33 pH	8.33 °C	6,372.1 μS/cm	1.90 mg/L		-81.0 mV	9.76 m	250.00 ml/min

Samples

Sample ID:	Description:
BH302	

Test Date / Time: 11/01/2022 15:15:23

Project: Mobuoy **Operator Name:** JC

Location Name: BH303
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 5 m
Top of Screen: 9 m
Total Depth: 12.7 m

Initial Depth to Water: 11.77 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 12.25 m Estimated Total Volume Pumped:

2500 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 11.69 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
11/01/2022 15:15	00:00	7.36 pH	8.72 °C	3,319.2 µS/cm	8.28 mg/L		-89.3 mV	11.77 m	250.00 ml/min
11/01/2022 15:16	01:00	7.36 pH	8.66 °C	3,316.5 µS/cm	7.96 mg/L		-86.4 mV	11.77 m	250.00 ml/min
11/01/2022 15:17	02:00	7.36 pH	8.64 °C	3,311.8 µS/cm	7.71 mg/L		-85.2 mV	11.77 m	250.00 ml/min
11/01/2022 15:18	03:00	7.35 pH	8.58 °C	3,308.1 µS/cm	7.52 mg/L		-84.7 mV	11.77 m	250.00 ml/min
11/01/2022 15:19	04:00	7.36 pH	8.53 °C	3,304.8 µS/cm	7.40 mg/L		-84.5 mV	11.77 m	250.00 ml/min
11/01/2022 15:20	05:00	7.36 pH	8.48 °C	3,300.8 µS/cm	7.28 mg/L		-83.9 mV	11.77 m	250.00 ml/min
11/01/2022 15:21	06:00	7.36 pH	8.30 °C	3,299.5 µS/cm	7.26 mg/L		-82.3 mV	11.77 m	250.00 ml/min
11/01/2022 15:22	07:00	7.36 pH	8.21 °C	3,309.3 µS/cm	7.33 mg/L		-82.0 mV	11.77 m	250.00 ml/min
11/01/2022 15:23	08:00	7.35 pH	8.13 °C	3,315.5 µS/cm	7.33 mg/L		-81.4 mV	11.77 m	250.00 ml/min
11/01/2022 15:24	09:00	7.34 pH	8.08 °C	3,323.4 µS/cm	7.25 mg/L		-80.7 mV	11.77 m	250.00 ml/min
11/01/2022 15:25	10:00	7.33 pH	8.05 °C	3,338.8 µS/cm	7.16 mg/L		-79.9 mV	11.77 m	250.00 ml/min

Sample ID:	Description:
BH303	

Test Date / Time: 11/01/2022 15:19:45

Project: Mobuoy Operator Name: JB

Location Name: BH401
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 2 m
Top of Screen: 8 m
Total Depth: 9.61 m

Initial Depth to Water: 4.81 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 7.2 m Estimated Total Volume Pumped:

2000 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 4.81 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
11/01/2022 15:19	00:00	6.29 pH	9.61 °C	1,280.7 μS/cm	1.70 mg/L	86.61 NTU	-52.7 mV	4.81 m	250.00 ml/min
11/01/2022 15:20	01:00	6.29 pH	9.78 °C	1,271.1 μS/cm	0.65 mg/L	125.03 NTU	-54.2 mV	4.81 m	250.00 ml/min
11/01/2022 15:21	02:00	6.30 pH	9.67 °C	1,261,6		115.73 NTU	-56.3 mV	4.81 m	250.00 ml/min
11/01/2022 15:22	03:00	6.29 pH	9.41 °C	1,261.1 μS/cm	0.38 mg/L	139.62 NTU	-59.1 mV	4.81 m	250.00 ml/min
11/01/2022 15:23	04:00	6.29 pH	9.25 °C	1,265.7 μS/cm	0.35 mg/L	163.39 NTU	-60.6 mV	4.81 m	250.00 ml/min
11/01/2022 15:24	05:00	6.28 pH	9.17 °C	1,269.8 μS/cm	0.34 mg/L	181.24 NTU	-61.5 mV	4.81 m	250.00 ml/min
11/01/2022 15:25	06:00	6.28 pH	9.12 °C	1,275.4 μS/cm	0.35 mg/L	203.85 NTU	-64.3 mV	4.81 m	250.00 ml/min
11/01/2022 15:26	07:00	6.28 pH	9.04 °C	1,277.4 μS/cm	0.35 mg/L	137.04 NTU	-65.7 mV	4.81 m	250.00 ml/min
11/01/2022 15:27	08:00	6.28 pH	9.00 °C	1,277.2 μS/cm	0.38 mg/L	140.61 NTU	-66.6 mV	4.81 m	250.00 ml/min

Sample ID:	Description:
BH401	GW

Test Date / Time: 20/01/2022 14:21:02

Project: Mobuoy
Operator Name: JB

Location Name: BH402S Well Diameter: 5 cm Casing Type: Plastic

Screen Length: 2 m Top of Screen: 2.5 m Total Depth: 4.56 m

Initial Depth to Water: 3.17 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 3.9 m Estimated Total Volume Pumped:

1500 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.38 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
20/01/2022 14:21	00:00	6.62 pH	11.43 °C	1,843.7 μS/cm	1.20 mg/L	1,390.8 NTU	-62.3 mV	317.00 cm	250.00 ml/min
20/01/2022 14:22	01:00	6.62 pH	11.11 °C	1,851.2 μS/cm	0.68 mg/L	1,254.3 NTU	-65.3 mV	317.00 cm	250.00 ml/min
20/01/2022 14:23	02:00	6.61 pH	10.99 °C	1,861.0 μS/cm	0.56 mg/L	1,116.0 NTU	-66.7 mV	317.00 cm	250.00 ml/min
20/01/2022 14:24	03:00	6.60 pH	10.88 °C	1,860.5 μS/cm	0.58 mg/L	1,481.9 NTU	-67.0 mV	317.00 cm	250.00 ml/min
20/01/2022 14:25	04:00	6.61 pH	10.79 °C	1,859.9 μS/cm	0.52 mg/L	1,225.4 NTU	-66.8 mV	317.00 cm	250.00 ml/min
20/01/2022 14:26	05:00	6.60 pH	10.74 °C	1,861.1 μS/cm	0.49 mg/L	1,235.2 NTU	-66.8 mV	317.00 cm	250.00 ml/min
20/01/2022 14:27	06:00	6.60 pH	10.67 °C	1,861.0 μS/cm	0.51 mg/L	1,223.8 NTU	-66.5 mV	317.00 cm	250.00 ml/min

Samples

Sample ID:	Description:
BH402S	

Test Date / Time: 12/01/2022 11:22:39

Project: Mobuoy Operator Name: JB

Well Diameter: 5 cm
Casing Type: Plastic

Screen Length: 1.5 m Top of Screen: 8.5 m Total Depth: 10.31 m

Initial Depth to Water: 4.17 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 7.4 m Estimated Total Volume Pumped:

5250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 4.17 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
12/01/2022 11:22	00:00	6.55 pH	10.81 °C	2,381.1 μS/cm	2.99 mg/L	68.28 NTU	-11.7 mV	4.17 m	250.00 ml/min
12/01/2022 11:23	01:00	6.61 pH	10.73 °C	2,384.2 μS/cm	1.45 mg/L	70.72 NTU	-14.4 mV	4.17 m	250.00 ml/min
12/01/2022 11:24	02:00	6.62 pH	10.68 °C	2,350.9 μS/cm	0.97 mg/L	82.73 NTU	-15.7 mV	4.17 m	250.00 ml/min
12/01/2022 11:25	03:00	6.62 pH	10.64 °C	2,355.3 μS/cm	0.82 mg/L	76.85 NTU	-17.2 mV	4.17 m	250.00 ml/min
12/01/2022 11:26	04:00	6.63 pH	10.63 °C	2,353.9 μS/cm	0.75 mg/L	79.57 NTU	-19.1 mV	4.17 m	250.00 ml/min
12/01/2022 11:27	05:00	6.63 pH	10.65 °C	2,354.4 μS/cm	0.71 mg/L	94.64 NTU	-20.8 mV	4.17 m	250.00 ml/min
12/01/2022 11:28	06:00	6.97 pH	10.84 °C	2.97 μS/cm	10.81 mg/L	0.00 NTU	-56.1 mV	4.17 m	250.00 ml/min
12/01/2022 11:29	07:00	7.17 pH	11.21 °C	1.58 µS/cm	11.34 mg/L	0.00 NTU	-52.0 mV	4.17 m	250.00 ml/min
12/01/2022 11:30	08:00	7.28 pH	11.49 °C	1.41 µS/cm	11.36 mg/L	0.00 NTU	-44.7 mV	4.17 m	250.00 ml/min
12/01/2022 11:31	09:00	7.35 pH	11.75 °C	1.34 μS/cm	11.33 mg/L	0.00 NTU	-36.9 mV	4.17 m	250.00 ml/min
12/01/2022 11:32	10:00	7.39 pH	12.01 °C	1.29 μS/cm	11.30 mg/L	0.00 NTU	-29.5 mV	4.17 m	250.00 ml/min
12/01/2022 11:33	11:00	7.42 pH	12.26 °C	1.25 μS/cm	11.24 mg/L	0.00 NTU	-22.9 mV	4.17 m	250.00 ml/min
12/01/2022 11:34	12:00	7.43 pH	12.42 °C	1.18 µS/cm	11.13 mg/L	0.00 NTU	-16.5 mV	4.17 m	250.00 ml/min
12/01/2022 11:35	13:00	7.35 pH	12.43 °C	12.48 µS/cm	11.03 mg/L	118.31 NTU	-15.2 mV	4.17 m	250.00 ml/min
12/01/2022 11:36	14:00	7.04 pH	11.50 °C	2,312.5 μS/cm	6.70 mg/L	118.07 NTU	-33.1 mV	4.17 m	250.00 ml/min

12/01/2022	15:00	6.68 pH	11.30 °C	2,329.3	2.83 mg/L	99.32 NTU	-18.9 mV	4.17 m	250.00 ml/min
11:37	15.00	0.00 pm	11.30 C	μS/cm	2.03 Hig/L	99.32 NTO	-10.91110	4.17 111	250.00 111/111111
12/01/2022	16:00	6.65 pH	11.17 °C	2,335.4	1.34 mg/L	135.58 NTU	-17.3 mV	4.17 m	250.00 ml/min
11:38	10.00	0.03 pm		μS/cm	1.54 Hig/L	133.36 NTO	-17.31110	4.17 111	250.00 111/111111
12/01/2022	17:00	6.64 pH	11.10 °C	2,341.4	0.05 mg/l	121.54 NTU	-18.1 mV	4.17 m	250.00 ml/min
11:39	17.00	0.04 pm	11.10 C	μS/cm	μS/cm 0.95 mg/L		-10.11110	4.17 111	230.00 111/111111
12/01/2022	18:00	6.64 pH	11.05 °C	2,348.3	0.96 mg/L	117.80 NTU	-18.9 mV	4.17 m	250.00 ml/min
11:40	10.00	0.04 pm	11.05 C	μS/cm	0.90 mg/L	117.00 1110	-10.9 1110	4.17 111	250.00 111/111111
12/01/2022	19:00	6.63 pH	11.03 °C	2,349.9	1.15 mg/L	126.06 NTU	-19.8 mV	4.17 m	250.00 ml/min
11:41	19.00	0.03 pri	11.03 C	μS/cm	1.15 Hig/L	120.00 1410	-19.01110	4.17 111	250.00 111/111111
12/01/2022	20:00	6.63 pH	11.03 °C	2,347.1	1.08 mg/L	132.97 NTU	-20.6 mV	4.17 m	250.00 ml/min
11:42	20.00	0.03 pm	11.03 C	μS/cm	1.00 mg/L	132.97 1010	-20.6 1117	4.17 111	230.00 111/111111
12/01/2022	21:00	6.63 pH	11.05 °C	2,348.7	0.86 mg/L	120.84 NTU	-21.7 mV	4.17 m	250.00 ml/min
11:43	21.00	0.03 pr i	11.05 C	μS/cm	0.00 mg/L	120.04 1110	-21.7 IIIV	4.17 111	250.00 mi/min

Samples

Sample ID:	Description:
BH402	GW

Test Date / Time: 14/01/2022 10:12:49

Project: Mobuoy **Operator Name:** JC

Location Name: BH403
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 2 m
Top of Screen: 9.3 m

Total Depth: 10.98 m

Initial Depth to Water: 3.64 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 10.3 m Estimated Total Volume Pumped:

3250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.7 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
14/01/2022 10:12	00:00	7.12 pH	8.83 °C	3,791.1 μS/cm	2.35 mg/L	-36.3 mV	3.64 m	250.00 ml/min
14/01/2022 10:13	01:00	7.13 pH	8.76 °C	3,788.1 µS/cm	2.20 mg/L	-48.3 mV	3.64 m	250.00 ml/min
14/01/2022 10:14	02:00	7.13 pH	8.64 °C	3,788.8 µS/cm	2.24 mg/L	-54.8 mV	3.64 m	250.00 ml/min
14/01/2022 10:15	03:00	7.14 pH	8.48 °C	3,787.6 µS/cm	2.41 mg/L	-59.1 mV	3.64 m	250.00 ml/min
14/01/2022 10:16	04:00	7.14 pH	8.46 °C	3,786.5 µS/cm	2.44 mg/L	-61.8 mV	3.64 m	250.00 ml/min
14/01/2022 10:17	05:00	7.14 pH	8.42 °C	3,784.5 µS/cm	2.60 mg/L	-63.3 mV	3.64 m	250.00 ml/min
14/01/2022 10:18	06:00	7.14 pH	8.36 °C	3,786.6 µS/cm	2.82 mg/L	-64.5 mV	3.64 m	250.00 ml/min
14/01/2022 10:19	07:00	7.14 pH	8.33 °C	3,786.2 µS/cm	3.07 mg/L	-65.3 mV	3.64 m	250.00 ml/min
14/01/2022 10:20	08:00	7.14 pH	8.30 °C	3,786.8 µS/cm	3.26 mg/L	-65.7 mV	3.64 m	250.00 ml/min
14/01/2022 10:21	09:00	7.14 pH	8.29 °C	3,787.2 µS/cm	3.39 mg/L	-66.0 mV	3.64 m	250.00 ml/min
14/01/2022 10:22	10:00	7.15 pH	8.27 °C	3,787.2 µS/cm	3.48 mg/L	-66.1 mV	3.64 m	250.00 ml/min
14/01/2022 10:23	11:00	7.14 pH	8.27 °C	3,789.2 µS/cm	3.36 mg/L	-66.3 mV	3.64 m	250.00 ml/min
14/01/2022 10:24	12:00	7.15 pH	8.27 °C	3,789.5 μS/cm	3.39 mg/L	-66.6 mV	3.64 m	250.00 ml/min

14/01/2022	12.00	7.45 011	0.07.00	3,791.6 µS/cm	3.61 mg/L	66.7 m)/	3.64 m	250.00 ml/min
10:25	13:00	7.15 pH	8.27 °C	3,791.6 µ3/cm	3.61 mg/L	-66.7 mV	3.04 III	250.00 m/min

Samples

Sample ID:	Description:
BH403	

Test Date / Time: 12/01/2022 14:17:51

Project: Mobuoy Operator Name: JB

Location Name: BH404
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 10 m
Top of Screen: 6 m

Total Depth: 15 m

Initial Depth to Water: 6.46 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 10.6 m Estimated Total Volume Pumped:

4500 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 6.53 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
12/01/2022 14:17	00:00	6.71 pH	10.94 °C	1,793.0 μS/cm	1.06 mg/L	112.44 NTU	-61.0 mV	6.46 m	250.00 ml/min
12/01/2022 14:18	01:00	6.72 pH	10.91 °C	1,813.9 μS/cm	0.91 mg/L	106.96 NTU	-63.4 mV	6.46 m	250.00 ml/min
12/01/2022 14:19	02:00	6.72 pH	10.86 °C	1,832.9 μS/cm	0.91 mg/L	73.77 NTU	-64.2 mV	6.46 m	250.00 ml/min
12/01/2022 14:20	03:00	6.73 pH	10.83 °C	1,849.0 μS/cm	1.33 mg/L	74.28 NTU	-64.7 mV	6.46 m	250.00 ml/min
12/01/2022 14:21	04:00	6.72 pH	10.80 °C	1,865.5 μS/cm	1.35 mg/L	56.89 NTU	-64.7 mV	6.46 m	250.00 ml/min
12/01/2022 14:22	05:00	6.73 pH	10.80 °C	1,872.5 μS/cm	0.93 mg/L	60.13 NTU	-65.4 mV	6.46 m	250.00 ml/min
12/01/2022 14:23	06:00	6.73 pH	10.81 °C	1,873.7 μS/cm	0.70 mg/L	55.18 NTU	-66.6 mV	6.46 m	250.00 ml/min
12/01/2022 14:24	07:00	6.72 pH	10.83 °C	1,875.5 μS/cm	0.66 mg/L	35.21 NTU	-66.9 mV	6.46 m	250.00 ml/min
12/01/2022 14:25	08:00	6.72 pH	10.84 °C	1,875.6 μS/cm	0.71 mg/L	39.55 NTU	-67.1 mV	6.46 m	250.00 ml/min
12/01/2022 14:26	09:00	6.72 pH	10.86 °C	1,876.1 μS/cm	0.80 mg/L	47.94 NTU	-67.0 mV	6.46 m	250.00 ml/min
12/01/2022 14:27	10:00	6.73 pH	10.77 °C	1,870.0 μS/cm	1.19 mg/L	54.86 NTU	-66.2 mV	6.46 m	250.00 ml/min
12/01/2022 14:28	11:00	6.72 pH	10.98 °C	1,870.2 μS/cm	0.56 mg/L	47.71 NTU	-67.4 mV	6.46 m	250.00 ml/min
12/01/2022 14:29	12:00	6.72 pH	11.05 °C	1,862.2 μS/cm	0.57 mg/L	49.00 NTU	-68.0 mV	6.46 m	250.00 ml/min
12/01/2022 14:30	13:00	6.72 pH	11.07 °C	1,855.9 μS/cm	0.61 mg/L	56.46 NTU	-68.8 mV	6.46 m	250.00 ml/min
12/01/2022 14:31	14:00	6.72 pH	11.08 °C	1,858.2 μS/cm	0.81 mg/L	52.41 NTU	-69.1 mV	6.46 m	250.00 ml/min

12/01/2022	15:00	6.72 pH	11.11 °C	1,858.9	0.64 mg/L	41.98 NTU	-68.3 mV	6.46 m	250.00 ml/min
14:32	15.00	0.72 pm	11.11 C	μS/cm	0.04 mg/L	41.90 1110	-00.3 1117	0.40 111	250.00 1111/111111
12/01/2022	16:00	6.72 pH	11.12 °C	1,859.7	0.67 mg/L	45.62 NTU	-68.2 mV	6.46 m	250.00 ml/min
14:33	16.00	0.72 pm	11.12 0	μS/cm	0.07 Hig/L	45.02 1110	-00.2 mv	0.40 111	250.00 111/111111
12/01/2022	17:00	6.72 pH	11.13 °C	1,861.2	0.66 mg/L	47.93 NTU	-69.2 mV	6.46 m	250.00 ml/min
14:34	17.00	6.72 μπ	11.13 C	μS/cm	0.00 mg/L	47.93 1410	-09.2 IIIV	0.40 111	250.00 111/111111
12/01/2022	18:00	6.72 pH	11.15 °C	1,860.6	0.59 mg/L	69.59 NTU	-69.8 mV	6.46 m	250.00 ml/min
14:35	10.00	0.72 pri	11.15 C	μS/cm	0.53 Hig/L	09.59 1110	-03.0 1110	0.40 111	230.00 111/111111

Sample ID:	Description:
BH404 and DUP1	

Test Date / Time: 12/01/2022 11:01:01

Project: Mobuoy **Operator Name:** JC

Location Name: BH406
Well Diameter: 15 cm
Casing Type: Plastic
Screen Length: 6 m
Top of Screen: 14 m
Total Depth: 19.7 m

Initial Depth to Water: 12.3 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 16 m Estimated Total Volume Pumped:

3750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 12.7 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20		
12/01/2022 11:01	00:00	7.18 pH	10.16 °C	2,306.1 μS/cm	4.42 mg/L		-59.6 mV	12.30 m	250.00 ml/min
12/01/2022 11:02	01:00	7.21 pH	10.04 °C	2,306.3 μS/cm	3.61 mg/L		-61.1 mV	12.30 m	250.00 ml/min
12/01/2022 11:03	02:00	7.22 pH	9.99 °C	2,303.9 μS/cm	3.82 mg/L		-62.8 mV	12.30 m	250.00 ml/min
12/01/2022 11:04	03:00	7.24 pH	9.93 °C	2,302.9 μS/cm	4.21 mg/L		-64.4 mV	12.30 m	250.00 ml/min
12/01/2022 11:05	04:00	7.26 pH	9.88 °C	2,302.3 μS/cm	4.57 mg/L		-65.6 mV	12.30 m	250.00 ml/min
12/01/2022 11:06	05:00	7.27 pH	9.84 °C	2,301.7 μS/cm	4.91 mg/L		-66.6 mV	12.30 m	250.00 ml/min
12/01/2022 11:07	06:00	7.28 pH	9.80 °C	2,301.0 μS/cm	5.22 mg/L		-67.5 mV	12.30 m	250.00 ml/min
12/01/2022 11:08	07:00	7.29 pH	9.77 °C	2,300.1 μS/cm	5.48 mg/L		-68.1 mV	12.30 m	250.00 ml/min
12/01/2022 11:09	08:00	7.31 pH	9.73 °C	2,299.4 µS/cm	5.74 mg/L		-68.7 mV	12.30 m	250.00 ml/min
12/01/2022 11:10	09:00	7.32 pH	9.71 °C	2,298.6 μS/cm	5.97 mg/L		-69.2 mV	12.30 m	250.00 ml/min
12/01/2022 11:11	10:00	7.32 pH	9.69 °C	2,297.4 μS/cm	6.11 mg/L		-69.5 mV	12.30 m	250.00 ml/min
12/01/2022 11:12	11:00	7.33 pH	9.66 °C	2,296.5 μS/cm	6.23 mg/L		-69.7 mV	12.30 m	250.00 ml/min
12/01/2022 11:13	12:00	7.34 pH	9.63 °C	2,295.9 µS/cm	6.33 mg/L		-69.8 mV	12.30 m	250.00 ml/min

12/01/2022	13:00	7.34 pH	9.61 °C	2,294.9	6.42 mg/L		-69.9 mV	12.30 m	250.00 ml/min
11:14	10.00			μS/cm	01.12g/ 2		00.0 111 7	12.00 111	200.00,
12/01/2022	14.00	7.35 pH	9.59 °C	2,294.4	6.51 mg/L	-70.0	70.0 \	12.30 m	250.00 ml/min
11:15	14:00			μS/cm			-70.0 mv		
12/01/2022	15:00	7.35 pH	9.57 °C	2,293.6	6.60 mg/L		CO O \/	12.30 m	250.00 ml/min
11:16				μS/cm		-69.9 mV		12.30 111	250.00 111/111111

Sample ID:	Description:
BH406	

Test Date / Time: 15/02/2022 14:38:53

Project: Mobuoy

Operator Name: James Scott

Location Name: BH610S Well Diameter: 5 cm Screen Length: 5 m Top of Screen: 0.5 m Total Depth: 5.01 m

Initial Depth to Water: 1.58 m

Pump Type: Peristaltic Tubing Type: Watera

Pump Intake From TOC: 1 m Estimated Total Volume Pumped:

4900 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min

Final Draw Down: 0 m

Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 10		
15/02/2022 14:38	00:00	6.60 pH	9.13 °C	2,455.4 μS/cm	3.53 mg/L		-73.8 mV	1.58 m	350.00 ml/min
15/02/2022 14:39	01:00	6.55 pH	9.22 °C	2,372.2 μS/cm	2.11 mg/L		-70.7 mV	1.58 m	350.00 ml/min
15/02/2022 14:40	02:00	6.54 pH	9.23 °C	2,377.7 μS/cm	1.48 mg/L		-70.5 mV	1.58 m	350.00 ml/min
15/02/2022 14:41	03:00	6.53 pH	9.17 °C	2,361.0 μS/cm	1.17 mg/L		-71.1 mV	1.58 m	350.00 ml/min
15/02/2022 14:42	04:00	6.52 pH	9.15 °C	2,378.2 μS/cm	1.06 mg/L		-71.6 mV	1.58 m	350.00 ml/min
15/02/2022 14:43	05:00	6.52 pH	9.16 °C	2,391.6 μS/cm	1.31 mg/L		-72.1 mV	1.58 m	350.00 ml/min
15/02/2022 14:44	06:00	6.52 pH	9.18 °C	2,407.5 μS/cm	1.38 mg/L		-72.8 mV	1.58 m	350.00 ml/min
15/02/2022 14:45	07:00	6.52 pH	9.20 °C	2,404.8 μS/cm	1.47 mg/L		-73.5 mV	1.58 m	350.00 ml/min
15/02/2022 14:46	08:00	6.52 pH	9.22 °C	2,408.4 μS/cm	1.56 mg/L		-73.9 mV	1.58 m	350.00 ml/min
15/02/2022 14:47	09:00	6.52 pH	9.21 °C	2,421.7 μS/cm	1.73 mg/L		-74.5 mV	1.58 m	350.00 ml/min
15/02/2022 14:48	10:00	6.52 pH	9.23 °C	2,445.5 μS/cm	1.81 mg/L		-75.3 mV	1.58 m	350.00 ml/min
15/02/2022 14:49	11:00	6.52 pH	9.21 °C	2,451.0 μS/cm	1.93 mg/L		-76.1 mV	1.58 m	350.00 ml/min
15/02/2022 14:50	12:00	6.52 pH	9.24 °C	2,463.0 μS/cm	1.92 mg/L		-76.7 mV	1.58 m	350.00 ml/min

15/02/2022 14:51	13:00	6.52 pH	9.25 °C	2,464.2 μS/cm	1.99 mg/L	-77.3 mV	1.58 m	350.00 ml/min
15/02/2022 14:52	14:00	6.53 pH	9.27 °C	2,478.6 μS/cm	2.03 mg/L	-77.9 mV	1.58 m	350.00 ml/min

Sample ID:	Description:
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Test Date / Time: 15/02/2022 14:38:53

Project: Mobuoy

Operator Name: James Scott

Location Name: BH610S Well Diameter: 5 cm Screen Length: 5 m Top of Screen: 0.5 m Total Depth: 5.01 m

Initial Depth to Water: 1.58 m

Pump Type: Peristaltic Tubing Type: Watera

Pump Intake From TOC: 1 m Estimated Total Volume Pumped:

4900 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min

Final Draw Down: 0 m

Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 10		
15/02/2022 14:38	00:00	6.60 pH	9.13 °C	2,455.4 μS/cm	3.53 mg/L		-73.8 mV	1.58 m	350.00 ml/min
15/02/2022 14:39	01:00	6.55 pH	9.22 °C	2,372.2 μS/cm	2.11 mg/L		-70.7 mV	1.58 m	350.00 ml/min
15/02/2022 14:40	02:00	6.54 pH	9.23 °C	2,377.7 μS/cm	1.48 mg/L		-70.5 mV	1.58 m	350.00 ml/min
15/02/2022 14:41	03:00	6.53 pH	9.17 °C	2,361.0 μS/cm	1.17 mg/L		-71.1 mV	1.58 m	350.00 ml/min
15/02/2022 14:42	04:00	6.52 pH	9.15 °C	2,378.2 μS/cm	1.06 mg/L		-71.6 mV	1.58 m	350.00 ml/min
15/02/2022 14:43	05:00	6.52 pH	9.16 °C	2,391.6 μS/cm	1.31 mg/L		-72.1 mV	1.58 m	350.00 ml/min
15/02/2022 14:44	06:00	6.52 pH	9.18 °C	2,407.5 μS/cm	1.38 mg/L		-72.8 mV	1.58 m	350.00 ml/min
15/02/2022 14:45	07:00	6.52 pH	9.20 °C	2,404.8 μS/cm	1.47 mg/L		-73.5 mV	1.58 m	350.00 ml/min
15/02/2022 14:46	08:00	6.52 pH	9.22 °C	2,408.4 μS/cm	1.56 mg/L		-73.9 mV	1.58 m	350.00 ml/min
15/02/2022 14:47	09:00	6.52 pH	9.21 °C	2,421.7 μS/cm	1.73 mg/L		-74.5 mV	1.58 m	350.00 ml/min
15/02/2022 14:48	10:00	6.52 pH	9.23 °C	2,445.5 μS/cm	1.81 mg/L		-75.3 mV	1.58 m	350.00 ml/min
15/02/2022 14:49	11:00	6.52 pH	9.21 °C	2,451.0 μS/cm	1.93 mg/L		-76.1 mV	1.58 m	350.00 ml/min
15/02/2022 14:50	12:00	6.52 pH	9.24 °C	2,463.0 μS/cm	1.92 mg/L		-76.7 mV	1.58 m	350.00 ml/min

15/02/2022 14:51	13:00	6.52 pH	9.25 °C	2,464.2 μS/cm	1.99 mg/L	-77.3 mV	1.58 m	350.00 ml/min
15/02/2022 14:52	14:00	6.53 pH	9.27 °C	2,478.6 μS/cm	2.03 mg/L	-77.9 mV	1.58 m	350.00 ml/min

Sample ID:	Description:
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Test Date / Time: 17/01/2022 10:29:47

Project: Mobuoy
Operator Name: JB

Location Name: BH614
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 3.3 m

Top of Screen: 1 m Total Depth: 3.58 m

Initial Depth to Water: 2.25 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 2.9 m Estimated Total Volume Pumped:

2041.667 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.49 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Weather Conditions:

Cold temperature - 1 degree's

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
17/01/2022 10:29	00:00	7.04 pH	7.53 °C	675.82 μS/cm	1.61 mg/L	313.31 NTU	-5.4 mV	225.00 cm	250.00 ml/min
17/01/2022 10:30	01:00	7.06 pH	7.95 °C	665.82 μS/cm	1.75 mg/L	390.78 NTU	-2.3 mV	225.00 cm	250.00 ml/min
17/01/2022 10:31	02:00	7.09 pH	8.29 °C	659.00 μS/cm	1.75 mg/L	336.52 NTU	3.0 mV	225.00 cm	250.00 ml/min
17/01/2022 10:32	03:00	7.11 pH	8.50 °C	661.65 μS/cm	1.73 mg/L	763.09 NTU	10.6 mV	225.00 cm	250.00 ml/min
17/01/2022 10:33	04:00	7.11 pH	8.60 °C	656.41 µS/cm	1.68 mg/L	834.45 NTU	13.1 mV	225.00 cm	250.00 ml/min
17/01/2022 10:34	05:00	7.11 pH	8.79 °C	652.22 μS/cm	1.70 mg/L	1,174.6 NTU	15.3 mV	225.00 cm	250.00 ml/min
17/01/2022 10:35	06:00	7.11 pH	8.90 °C	652.81 μS/cm	1.81 mg/L	1,455.9 NTU	16.1 mV	225.00 cm	250.00 ml/min
17/01/2022 10:36	07:00	7.10 pH	8.95 °C	655.04 μS/cm	1.68 mg/L	1,484.5 NTU	17.3 mV	225.00 cm	250.00 ml/min
17/01/2022 10:37	07:48	7.09 pH	8.99 °C	656.12 μS/cm	1.63 mg/L	1,189.4 NTU	18.2 mV	225.00 cm	250.00 ml/min
17/01/2022 10:37	08:10	7.09 pH	9.00 °C	656.52 µS/cm	1.57 mg/L	1,611.8 NTU	18.9 mV	225.00 cm	250.00 ml/min

Sample ID: Description:

BH614 and DUP4	GW
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Test Date / Time: 15/02/2022 16:54:50

Project: Mobuoy

Operator Name: James Scott

Location Name: BH615D Well Diameter: 3.8 cm Screen Length: 8 m Top of Screen: 6 m Total Depth: 14 m

Initial Depth to Water: 2.81 m

Pump Type: Peristaltic Tubing Type: Watera

Pump Intake From TOC: 1 m Estimated Total Volume Pumped:

4946.667 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min

Final Draw Down: 0 m

Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 10	vvalei	
15/02/2022 16:54	00:00	6.84 pH	9.24 °C	327.12 μS/cm	8.92 mg/L	., 10	12.1 mV	2.81 m	350.00 ml/min
15/02/2022 16:55	01:00	6.65 pH	9.33 °C	323.25 μS/cm	8.46 mg/L		22.4 mV	2.81 m	350.00 ml/min
15/02/2022 16:56	02:00	6.46 pH	9.30 °C	317.21 μS/cm	8.36 mg/L		35.5 mV	2.81 m	350.00 ml/min
15/02/2022 16:57	03:00	6.34 pH	9.31 °C	313.89 µS/cm	8.40 mg/L		47.1 mV	2.81 m	350.00 ml/min
15/02/2022 16:58	04:00	6.27 pH	9.37 °C	313.75 µS/cm	8.52 mg/L		56.6 mV	2.81 m	350.00 ml/min
15/02/2022 16:59	05:00	6.20 pH	9.41 °C	312.07 μS/cm	8.65 mg/L		66.4 mV	2.81 m	350.00 ml/min
15/02/2022 17:00	06:00	6.16 pH	9.42 °C	309.18 μS/cm	8.68 mg/L		73.6 mV	2.81 m	350.00 ml/min
15/02/2022 17:01	07:08	6.12 pH	9.29 °C	307.80 μS/cm	8.68 mg/L		80.5 mV	2.81 m	350.00 ml/min
15/02/2022 17:02	08:08	6.11 pH	9.18 °C	307.55 μS/cm	8.65 mg/L		86.0 mV	2.81 m	350.00 ml/min
15/02/2022 17:03	09:08	6.08 pH	9.17 °C	306.58 μS/cm	8.55 mg/L		91.6 mV	2.81 m	350.00 ml/min
15/02/2022 17:04	10:08	6.06 pH	9.13 °C	308.77 μS/cm	8.42 mg/L		96.4 mV	2.81 m	350.00 ml/min
15/02/2022 17:05	11:08	6.05 pH	9.20 °C	308.73 μS/cm	8.41 mg/L		100.5 mV	2.81 m	350.00 ml/min
15/02/2022 17:06	12:08	6.04 pH	9.19 °C	307.61 μS/cm	8.45 mg/L		104.4 mV	2.81 m	350.00 ml/min

15/02/2022 17:07	13:08	6.03 pH	9.24 °C	307.55 μS/cm	8.47 mg/L	108.4 mV	2.81 m	350.00 ml/min
15/02/2022 17:08	14:08	6.01 pH	9.23 °C	307.02 μS/cm	8.54 mg/L	112.3 mV	2.81 m	350.00 ml/min

Sample ID:	Description:
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Test Date / Time: 15/02/2022 17:22:56

Project: Mobuoy

Operator Name: James Scott

Location Name: BH615s Well Diameter: 5 cm Screen Length: 4.3 m Top of Screen: 0.5 m Total Depth: 5.3 m

Initial Depth to Water: 2.82 m

Pump Type: Peristaltic Tubing Type: Watera

Pump Intake From TOC: 1 m Estimated Total Volume Pumped:

5950 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min

Final Draw Down: 0 m

Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Rainy

LOW-I IOW IX									
Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 10		
15/02/2022 17:22	00:00	6.35 pH	9.00 °C	1,532.1 μS/cm	3.59 mg/L		119.5 mV	2.82 m	350.00 ml/min
15/02/2022 17:23	01:00	6.38 pH	9.02 °C	1,534.1 μS/cm	2.49 mg/L		112.2 mV	2.82 m	350.00 ml/min
15/02/2022 17:24	02:00	6.39 pH	9.06 °C	1,534.5 μS/cm	1.74 mg/L		104.2 mV	2.82 m	350.00 ml/min
15/02/2022 17:25	03:00	6.40 pH	9.11 °C	1,531.8 μS/cm	1.30 mg/L		96.2 mV	2.82 m	350.00 ml/min
15/02/2022 17:26	04:00	6.41 pH	9.13 °C	1,531.0 μS/cm	1.00 mg/L		88.2 mV	2.82 m	350.00 ml/min
15/02/2022 17:27	05:00	6.42 pH	9.11 °C	1,528.9 μS/cm	0.77 mg/L		79.7 mV	2.82 m	350.00 ml/min
15/02/2022 17:28	06:00	6.43 pH	9.14 °C	1,528.4 μS/cm	0.62 mg/L		71.2 mV	2.82 m	350.00 ml/min
15/02/2022 17:29	07:00	6.43 pH	9.14 °C	1,524.3 μS/cm	0.55 mg/L		63.2 mV	2.82 m	350.00 ml/min
15/02/2022 17:30	08:00	6.44 pH	9.13 °C	1,509.3 μS/cm	0.47 mg/L		55.2 mV	2.82 m	350.00 ml/min
15/02/2022 17:31	09:00	6.44 pH	9.10 °C	1,487.2 μS/cm	0.42 mg/L		47.8 mV	2.82 m	350.00 ml/min
15/02/2022 17:32	10:00	6.45 pH	9.05 °C	1,480.8 μS/cm	0.39 mg/L		41.4 mV	2.82 m	350.00 ml/min
15/02/2022 17:33	11:00	6.45 pH	9.07 °C	1,478.3 μS/cm	0.37 mg/L		35.4 mV	2.82 m	350.00 ml/min
15/02/2022 17:34	12:00	6.45 pH	9.04 °C	1,478.1 μS/cm	0.34 mg/L		29.7 mV	2.82 m	350.00 ml/min

15/02/2022	13:00	6.46 pH	9.05 °C	1,475.9	0.32 mg/L		24.9 mV	2.82 m	350.00 ml/min
17:35	13.00	0.40 pm	9.03 C	μS/cm	0.32 mg/L		24.9 1110	2.02 111	330.00 111/111111
15/02/2022	14:00	6.46 pH	9.06 °C	1,472.3	0.30 mg/L		20.3 mV	2.82 m	350.00 ml/min
17:36	14.00	6.46 pn	9.00 C	μS/cm	0.30 Hig/L		20.3 1117	2.02 111	350.00 111/111111
15/02/2022	15:00	6 46 pH	6.46 pH 9.02 °C	1,474.5	0.29 mg/L	10	16.2 mV	2.82 m	350.00 ml/min
17:37	15.00	0.40 pm		μS/cm			10.2 1110	2.02 111	330.00 111/111111
15/02/2022	16:00	6.46 pH	9.06 °C	1,480.3	0.30 mg/L		12.7 mV	2.82 m	350.00 ml/min
17:38	16.00 6.46 рн	9.06 C	μS/cm	0.30 Hig/L		12.7 1110	2.02 111	330.00 1111/111111	
15/02/2022	17:00 6.47 pH	6.47 pH	9.08 °C	1,475.6	0.29 mg/L		9.5 mV	2.82 m	350.00 ml/min
17:39	17.00 6.47 рн		9.00 C	μS/cm	0.29 mg/L		9.5 111	2.02 111	330.00 111/111111

Sample ID:	Description:
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Test Date / Time: 17/01/2022 12:35:00

Project: Mobuoy Operator Name: JB

Location Name: BH616
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 3 m
Top of Screen: 2 m

Total Depth: 5.04 m

Initial Depth to Water: 2.19 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 3.5 m Estimated Total Volume Pumped:

1629.167 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.4 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
17/01/2022 12:35	00:00	6.73 pH	7.82 °C	4,919.1 μS/cm	0.71 mg/L	35.20 NTU	-77.5 mV	219.00 cm	250.00 ml/min
17/01/2022 12:36	01:00	6.76 pH	7.84 °C	4,900.3 μS/cm	0.63 mg/L	60.06 NTU	-83.4 mV	219.00 cm	250.00 ml/min
17/01/2022 12:37	02:00	6.77 pH	7.91 °C	4,891.9 μS/cm	0.80 mg/L	44.67 NTU	-88.0 mV	219.00 cm	250.00 ml/min
17/01/2022 12:38	03:00	6.78 pH	7.93 °C	4,885.1 μS/cm	0.66 mg/L	33.52 NTU	-91.2 mV	219.00 cm	250.00 ml/min
17/01/2022 12:39	04:00	6.78 pH	7.90 °C	4,868.1 μS/cm	0.54 mg/L	36.31 NTU	-93.0 mV	219.00 cm	250.00 ml/min
17/01/2022 12:40	05:00	6.79 pH	7.99 °C	4,878.2 μS/cm	0.52 mg/L	37.73 NTU	-94.0 mV	219.00 cm	250.00 ml/min
17/01/2022 12:40	05:31	6.79 pH	8.06 °C	4,886.9 μS/cm	0.62 mg/L	26.61 NTU	-94.7 mV	219.00 cm	250.00 ml/min
17/01/2022 12:41	06:31	6.79 pH	8.18 °C	4,887.8 μS/cm	0.72 mg/L	26.44 NTU	-96.9 mV	219.00 cm	250.00 ml/min

Sample ID:	Description:
BH616	GW

Test Date / Time: 17/01/2022 09:43:30

Project: Mobuoy Operator Name: JB

Location Name: BH617
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 5 m
Top of Screen: 3 m

Total Depth: 8.48 m

Initial Depth to Water: 2.75 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 5.4 m Estimated Total Volume Pumped:

1750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.75 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Weather Conditions:

Cold temperature - 1 degree's

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
17/01/2022	00:00	6.50 pH	6.98 °C	1,474.1	1.02 mg/L	738.55 NTU	-26.6 mV	275.00 cm	250.00 ml/min
09:43	00.00	0.50 pr i	0.50	μS/cm	1.02 mg/L	730.331110	20.0 111	273.00 0111	250.00 111/111111
17/01/2022	01:00	6.51 pH	7.11 °C	1,467.5	0.87 mg/L	920.04 NTU	-29.0 mV	275.00 cm	250.00 ml/min
09:44	01.00	0.51 pm	7.11 0	μS/cm	0.07 mg/L	920.04 1110	-29.0 1110	273.00 011	250.00 m/min
17/01/2022	02:00	6.50 pH	7.06 °C	1,461.0	0.79 mg/L	866.18 NTU	-29.9 mV	275.00 cm	250.00 ml/min
09:45	02.00	6.50 pn	7.06 C	μS/cm	0.79 mg/L	000.10 1010	-29.9 1110	275.00 CIII	250.00 111/111111
17/01/2022	03:00	6 40 pH	6.78 °C	1,456.4	0.75 mg/L	830.22 NTU	-30.7 mV	275.00 cm	250.00 ml/min
09:46	03.00	6.49 pH	6.76 C	μS/cm	0.75 mg/L	030.22 1110	-30.7 1117	275.00 CM	250.00 111/111111
17/01/2022	04:00	6.49 pH	6.67 °C	1,460.4	0.72 mg/L	960.85 NTU	-31.3 mV	275.00 cm	250.00 ml/min
09:47	04.00	6.49 рп	6.67 C	μS/cm	0.72 mg/L		-31.31117	275.00 CIII	
17/01/2022	05.00	6 40 511	6.63 °C	1,459.8	0.60 mg/l	816.19 NTU	-32.1 mV	275.00 cm	250.00 ml/min
09:48	05:00	6.48 pH	6.63 C	μS/cm	0.68 mg/L	010.19 N10	-32.1 1117	275.00 Cm	250.00 ml/min
17/01/2022	06:00	00.00	6.61 °C	1,461.1	0.62 mg/l	997.18 NTU	-33.0 mV	275.00 cm	250.00 ml/min
09:49	06.00	6.48 pH	0.01	μS/cm	0.63 mg/L	997.16 NIU	-33.0 1110	275.00 Cm	250.00 Mi/Min
17/01/2022	07:00	00 6.47 ml l	6.63 °C	1,460.9	0.66 mg/L	769.28 NTU	22.0 \/	075 00	250 001/
09:50	07.00	6.47 pH	0.03 C	μS/cm	0.00 mg/L	709.20 NTU	-33.6 mV	275.00 cm	250.00 ml/min

Sample ID:	Description:
BH616	GW

Test Date / Time: 17/01/2022 12:10:37

Project: Mobuoy **Operator Name:** JC

Location Name: BH618D Well Diameter: 5 cm Casing Type: Plastic Screen Length: 5 m Top of Screen: 3 m

Total Depth: 8.07 m

Initial Depth to Water: 3.44 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 5.8 m Estimated Total Volume Pumped:

5500 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.47 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
17/01/2022 12:10	00:00	7.24 pH	8.12 °C	933.51 μS/cm	6.59 mg/L	65.9 mV	3.44 m	250.00 ml/min
17/01/2022 12:11	01:00	7.25 pH	8.00 °C	932.64 μS/cm	6.01 mg/L	59.7 mV	3.44 m	250.00 ml/min
17/01/2022 12:12	02:00	7.26 pH	7.88 °C	932.90 μS/cm	6.20 mg/L	56.2 mV	3.44 m	250.00 ml/min
17/01/2022 12:13	03:00	7.28 pH	7.79 °C	932.95 μS/cm	6.54 mg/L	53.2 mV	3.44 m	250.00 ml/min
17/01/2022 12:14	04:00	7.30 pH	7.71 °C	933.04 μS/cm	6.83 mg/L	50.3 mV	3.44 m	250.00 ml/min
17/01/2022 12:15	05:00	7.32 pH	7.64 °C	932.44 μS/cm	7.06 mg/L	47.9 mV	3.44 m	250.00 ml/min
17/01/2022 12:16	06:00	7.33 pH	7.58 °C	932.24 μS/cm	7.26 mg/L	45.9 mV	3.44 m	250.00 ml/min
17/01/2022 12:17	07:00	7.34 pH	7.51 °C	932.10 μS/cm	7.47 mg/L	44.0 mV	3.44 m	250.00 ml/min
17/01/2022 12:18	08:00	7.36 pH	7.45 °C	931.83 μS/cm	7.64 mg/L	42.1 mV	3.44 m	250.00 ml/min
17/01/2022 12:19	09:00	7.37 pH	7.39 °C	931.67 μS/cm	7.83 mg/L	40.7 mV	3.44 m	250.00 ml/min
17/01/2022 12:20	10:00	7.39 pH	7.32 °C	931.48 μS/cm	8.00 mg/L	39.4 mV	3.44 m	250.00 ml/min
17/01/2022 12:21	11:00	7.40 pH	7.26 °C	931.30 μS/cm	8.16 mg/L	38.3 mV	3.44 m	250.00 ml/min
17/01/2022 12:22	12:00	7.41 pH	7.20 °C	931.14 μS/cm	8.32 mg/L	37.2 mV	3.44 m	250.00 ml/min

17/01/2022 12:23	13:00	7.42 pH	7.14 °C	930.77 μS/cm	8.47 mg/L	36.3 mV	3.44 m	250.00 ml/min
17/01/2022 12:24	14:00	7.44 pH	7.08 °C	930.47 µS/cm	8.62 mg/L	35.0 mV	3.44 m	250.00 ml/min
17/01/2022 12:25	15:00	7.45 pH	7.02 °C	930.50 μS/cm	8.76 mg/L	34.1 mV	3.44 m	250.00 ml/min
17/01/2022 12:26	16:00	7.46 pH	6.97 °C	930.19 µS/cm	8.89 mg/L	33.2 mV	3.44 m	250.00 ml/min
17/01/2022 12:27	17:00	7.47 pH	6.92 °C	929.97 µS/cm	9.00 mg/L	32.5 mV	3.44 m	250.00 ml/min
17/01/2022 12:28	18:00	7.49 pH	6.87 °C	929.96 µS/cm	9.13 mg/L	31.3 mV	3.44 m	250.00 ml/min
17/01/2022 12:29	19:00	7.50 pH	6.82 °C	929.89 µS/cm	9.21 mg/L	30.6 mV	3.44 m	250.00 ml/min
17/01/2022 12:30	20:00	7.51 pH	6.77 °C	929.60 µS/cm	9.31 mg/L	30.1 mV	3.44 m	250.00 ml/min
17/01/2022 12:31	21:00	7.52 pH	6.72 °C	929.26 μS/cm	9.37 mg/L	29.7 mV	3.44 m	250.00 ml/min
17/01/2022 12:32	22:00	7.53 pH	6.67 °C	929.24 µS/cm	9.48 mg/L	29.3 mV	3.44 m	250.00 ml/min

Sample ID:	Description:
BH618D	

Test Date / Time: 17/01/2022 11:43:26

Project: Mobuoy **Operator Name:** JC

Location Name: BH619D Well Diameter: 5 cm Casing Type: Plastic Screen Length: 4 m Top of Screen: 4 m Total Depth: 7.9 m

Initial Depth to Water: 2.74 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 5.2 m Estimated Total Volume Pumped:

1750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.75 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Overcast

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
17/01/2022 11:43	00:00	7.62 pH	8.14 °C	386.78 μS/cm	10.46 mg/L	33.4 mV	2.74 m	250.00 ml/min
17/01/2022 11:44	01:00	7.64 pH	8.11 °C	386.85 μS/cm	10.26 mg/L	33.5 mV	2.74 m	250.00 ml/min
17/01/2022 11:45	02:00	7.65 pH	8.06 °C	386.67 μS/cm	10.26 mg/L	34.5 mV	2.74 m	250.00 ml/min
17/01/2022 11:46	03:00	7.61 pH	8.02 °C	386.49 μS/cm	10.33 mg/L	37.9 mV	2.74 m	250.00 ml/min
17/01/2022 11:47	04:00	7.63 pH	7.97 °C	386.35 μS/cm	10.53 mg/L	38.9 mV	2.74 m	250.00 ml/min
17/01/2022 11:48	05:00	7.66 pH	7.94 °C	386.18 μS/cm	10.67 mg/L	37.1 mV	2.74 m	250.00 ml/min
17/01/2022 11:49	06:00	7.71 pH	7.91 °C	386.13 μS/cm	10.83 mg/L	33.5 mV	2.74 m	250.00 ml/min
17/01/2022 11:50	07:00	7.73 pH	7.88 °C	386.01 μS/cm	10.85 mg/L	32.0 mV	2.74 m	250.00 ml/min

Sample ID:	Description:
BH619D	

Test Date / Time: 17/01/2022 10:49:19

Project: Mobuoy **Operator Name:** JC

Location Name: BH619S
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 3.2 m
Top of Screen: 0.3 m

Total Depth: 5.55 m

Initial Depth to Water: 2.74 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 3 m Estimated Total Volume Pumped:

6250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.75 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Overcast

Weather Conditions:

Overcast

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
17/01/2022 10:49	00:00	7.36 pH	8.08 °C	531.65 μS/cm	8.09 mg/L	244.9 mV	2.74 m	250.00 ml/min
17/01/2022 10:50	01:00	7.37 pH	7.90 °C	530.45 μS/cm	6.07 mg/L	224.6 mV	2.74 m	250.00 ml/min
17/01/2022 10:51	02:00	7.39 pH	7.71 °C	529.95 μS/cm	5.53 mg/L	199.8 mV	2.74 m	250.00 ml/min
17/01/2022 10:52	03:00	7.40 pH	7.52 °C	529.92 μS/cm	5.42 mg/L	171.4 mV	2.74 m	250.00 ml/min
17/01/2022 10:53	04:00	7.42 pH	7.38 °C	529.90 μS/cm	5.53 mg/L	143.0 mV	2.74 m	250.00 ml/min
17/01/2022 10:54	05:00	7.44 pH	7.26 °C	529.69 μS/cm	5.73 mg/L	118.5 mV	2.74 m	250.00 ml/min
17/01/2022 10:55	06:00	7.46 pH	7.15 °C	529.61 µS/cm	5.97 mg/L	97.0 mV	2.74 m	250.00 ml/min
17/01/2022 10:56	07:00	7.47 pH	7.05 °C	529.46 μS/cm	6.23 mg/L	79.7 mV	2.74 m	250.00 ml/min
17/01/2022 10:57	08:00	7.48 pH	6.97 °C	529.37 μS/cm	6.48 mg/L	67.0 mV	2.74 m	250.00 ml/min
17/01/2022 10:58	09:00	7.49 pH	6.89 °C	529.14 μS/cm	6.73 mg/L	56.4 mV	2.74 m	250.00 ml/min
17/01/2022 10:59	10:00	7.50 pH	6.82 °C	528.99 μS/cm	6.97 mg/L	48.7 mV	2.74 m	250.00 ml/min
17/01/2022 11:00	11:00	7.51 pH	6.77 °C	528.79 μS/cm	7.10 mg/L	42.9 mV	2.74 m	250.00 ml/min
17/01/2022 11:01	12:00	7.52 pH	6.71 °C	528.61 μS/cm	7.28 mg/L	38.1 mV	2.74 m	250.00 ml/min

17/01/2022	13:00	7.53 pH	6.65 °C	528.43 μS/cm	7.39 mg/L	34.1 mV	2.74 m	250.00 ml/min
11:02		,		·	,			
17/01/2022	14:00	7.53 pH	6.60 °C	528.23 μS/cm	7.54 mg/L	31.2 mV	2.74 m	250.00 ml/min
11:03	1 1.00	7.00 pri	0.00	020.20 po/om	7.01 mg/L	01.2111	2.7	200.00 111/111111
17/01/2022	15:00	7.54 pH	6.55 °C	528.12 μS/cm	7.67 mg/L	28.6 mV	2.74 m	250.00 ml/min
11:04	13.00	7.54 pm	0.55 C	320.12 μ3/0111	7.07 Hig/L	20.0 111 V	2.7 4 111	250.00 mi/min
17/01/2022	16:00	7.55 ml l	6.50 °C	F07.00 uC/om	7.01 mg/l	26.6 mV	2.74 m	250.00 ml/min
11:05	16.00	7.55 pH	6.50 °C	527.89 μS/cm	7.81 mg/L	20.01110	2.74 111	250.00 111/111111
17/01/2022	47.00	7.50 -11	0.40.00	507.000/	7.04	04.0>/	0.74	050 00
11:06	17:00	7.56 pH	6.46 °C	527.69 μS/cm	7.94 mg/L	24.9 mV	2.74 m	250.00 ml/min
17/01/2022	40.00	7.50 11	0.44.00	500.04.07	0.00 "	22.2.1/	0.74	050.00 1/ :
11:07	18:00	7.56 pH	6.41 °C	526.91 μS/cm	8.03 mg/L	23.6 mV	2.74 m	250.00 ml/min
17/01/2022	19:00	7.57 11	0.00.00	507.07.0/	0.44 "	22.2 1/	0.74	050.00 1/ :
11:08		7.57 pH	6.36 °C	527.37 μS/cm	8.14 mg/L	22.2 mV	2.74 m	250.00 ml/min
17/01/2022	00.00	7.50 11	0.00.00	500.00 0/	0.00 "	24.4.1/	0.74	050.00 1/ :
11:09	20:00	7.58 pH	6.32 °C	526.63 μS/cm	8.23 mg/L	21.1 mV	2.74 m	250.00 ml/min
17/01/2022	04.00	7.50 11	0.00.00	500.07.0/	0.04 "	00.4.14	0.74	050.00 1/ :
11:10	21:00	7.59 pH	6.28 °C	526.97 μS/cm	8.34 mg/L	20.4 mV	2.74 m	250.00 ml/min
17/01/2022	22.00	7.50 -11	0.05.00	500 00 vC/arr	0.40 //	40.0 \/	0.74	250 00 1/ :
11:11	22:00	7.59 pH	6.25 °C	526.80 μS/cm	8.43 mg/L	19.8 mV	2.74 m	250.00 ml/min
17/01/2022	00.00	7.00 -11	0.04.00	500.000/	0.54	40.4 == 1/	0.74	050 00
11:12	23:00	7.60 pH	6.21 °C	526.62 μS/cm	8.54 mg/L	19.1 mV	2.74 m	250.00 ml/min
17/01/2022	04.00	7.04 -11	0.40.00	500 44 - 0/-	0.04	40.0>/	0.74	050 00
11:13	24:00	7.61 pH	6.18 °C	526.41 μS/cm	8.64 mg/L	18.6 mV	2.74 m	250.00 ml/min
17/01/2022	25.00	7.64 ml l	6.15 °C	E26.25C/cm	0.72 ma/l	18.3 mV	2.74 m	250.00 ml/min
11:14	25:00	7.61 pH	6.15 C	526.25 μS/cm	8.73 mg/L	10.3 1110	2.74 111	250.00 mi/min

Sample ID:	Description:
BH619S	

Test Date / Time: 13/01/2022 14:23:25

Project: Mobuoy
Operator Name: JB

Location Name: BH620 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 5 m Top of Screen: 3 m

Total Depth: 7.9 m

Initial Depth to Water: 3.94 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 6 m Estimated Total Volume Pumped:

3000 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.93 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
13/01/2022 14:23	00:00	6.63 pH	10.64 °C	877.70 μS/cm	1.86 mg/L	387.59 NTU	-61.1 mV	394.00 cm	250.00 ml/min
13/01/2022 14:24	01:00	6.66 pH	10.61 °C	873.25 μS/cm	1.70 mg/L	411.65 NTU	-62.0 mV	394.00 cm	250.00 ml/min
13/01/2022 14:25	02:00	6.64 pH	10.51 °C	871.05 μS/cm	1.47 mg/L	362.83 NTU	-60.4 mV	394.00 cm	250.00 ml/min
13/01/2022 14:26	03:00	6.64 pH	10.48 °C	871.91 μS/cm	1.24 mg/L	302.62 NTU	-60.7 mV	394.00 cm	250.00 ml/min
13/01/2022 14:27	04:00	6.64 pH	10.45 °C	870.67 μS/cm	1.27 mg/L	358.35 NTU	-60.0 mV	394.00 cm	250.00 ml/min
13/01/2022 14:28	05:00	6.64 pH	10.41 °C	868.15 μS/cm	1.20 mg/L	506.91 NTU	-60.0 mV	394.00 cm	250.00 ml/min
13/01/2022 14:29	06:00	6.64 pH	10.15 °C	864.63 µS/cm	1.01 mg/L	527.47 NTU	-59.7 mV	394.00 cm	250.00 ml/min
13/01/2022 14:30	07:00	6.60 pH	10.37 °C	866.61 µS/cm	0.72 mg/L	406.44 NTU	-58.6 mV	394.00 cm	250.00 ml/min
13/01/2022 14:31	08:00	6.62 pH	10.55 °C	862.81 μS/cm	0.66 mg/L	379.85 NTU	-60.0 mV	394.00 cm	250.00 ml/min
13/01/2022 14:32	09:00	6.62 pH	10.58 °C	859.70 μS/cm	0.60 mg/L	348.81 NTU	-59.8 mV	394.00 cm	250.00 ml/min
13/01/2022 14:33	10:00	6.62 pH	10.59 °C	854.92 μS/cm	0.55 mg/L	357.23 NTU	-58.6 mV	394.00 cm	250.00 ml/min
13/01/2022 14:34	11:00	6.62 pH	10.56 °C	852.78 μS/cm	0.54 mg/L	319.96 NTU	-57.6 mV	394.00 cm	250.00 ml/min
13/01/2022 14:35	12:00	6.62 pH	10.47 °C	852.86 μS/cm	0.57 mg/L	383.32 NTU	-57.0 mV	394.00 cm	250.00 ml/min

Sample ID:	Description:
BH620	GW - Borehole was purged on 10/01/2022

Test Date / Time: 17/01/2022 09:54:38

Project: Mobuoy **Operator Name:** JC

Location Name: BH621 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 4 m Top of Screen: 4 m

Total Depth: 8.1 m

Initial Depth to Water: 3.1 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 5.4 m Estimated Total Volume Pumped:

6250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.1 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
17/01/2022 09:54	00:00	6.99 pH	7.20 °C	813.71 μS/cm	5.99 mg/L	272.1 mV	3.10 m	250.00 ml/min
17/01/2022 09:55	01:00	7.00 pH	6.95 °C	808.52 μS/cm	4.71 mg/L	271.3 mV	3.10 m	250.00 ml/min
17/01/2022 09:56	02:00	7.02 pH	6.74 °C	807.43 μS/cm	4.38 mg/L	271.3 mV	3.10 m	250.00 ml/min
17/01/2022 09:57	03:00	7.03 pH	6.57 °C	807.25 μS/cm	4.38 mg/L	272.3 mV	3.10 m	250.00 ml/min
17/01/2022 09:58	04:00	7.04 pH	6.41 °C	807.05 μS/cm	4.49 mg/L	273.0 mV	3.10 m	250.00 ml/min
17/01/2022 09:59	05:00	7.05 pH	6.27 °C	807.15 μS/cm	4.67 mg/L	273.3 mV	3.10 m	250.00 ml/min
17/01/2022 10:00	06:00	7.06 pH	6.14 °C	807.16 μS/cm	4.87 mg/L	273.4 mV	3.10 m	250.00 ml/min
17/01/2022 10:01	07:00	7.07 pH	6.03 °C	807.20 μS/cm	5.04 mg/L	273.7 mV	3.10 m	250.00 ml/min
17/01/2022 10:02	08:00	7.07 pH	5.93 °C	807.20 μS/cm	5.21 mg/L	274.6 mV	3.10 m	250.00 ml/min
17/01/2022 10:03	09:00	7.09 pH	5.82 °C	807.25 μS/cm	5.40 mg/L	273.9 mV	3.10 m	250.00 ml/min
17/01/2022 10:04	10:00	7.09 pH	5.73 °C	807.33 μS/cm	5.57 mg/L	274.3 mV	3.10 m	250.00 ml/min
17/01/2022 10:05	11:00	7.11 pH	5.64 °C	807.47 μS/cm	5.73 mg/L	274.0 mV	3.10 m	250.00 ml/min
17/01/2022 10:06	12:00	7.11 pH	5.55 °C	807.40 μS/cm	5.89 mg/L	274.1 mV	3.10 m	250.00 ml/min

17/01/2022 10:07	13:00	7.12 pH	5.48 °C	807.51 μS/cm	6.05 mg/L	274.1 mV	3.10 m	250.00 ml/min
17/01/2022 10:08	14:00	7.13 pH	5.39 °C	807.55 μS/cm	6.20 mg/L	273.8 mV	3.10 m	250.00 ml/min
17/01/2022 10:09	15:00	7.15 pH	5.32 °C	807.55 μS/cm	6.35 mg/L	273.3 mV	3.10 m	250.00 ml/min
17/01/2022 10:10	16:00	7.15 pH	5.25 °C	807.58 μS/cm	6.51 mg/L	273.7 mV	3.10 m	250.00 ml/min
17/01/2022 10:11	17:00	7.16 pH	5.18 °C	807.71 μS/cm	6.66 mg/L	273.3 mV	3.10 m	250.00 ml/min
17/01/2022 10:12	18:00	7.17 pH	5.12 °C	807.62 μS/cm	6.80 mg/L	273.0 mV	3.10 m	250.00 ml/min
17/01/2022 10:13	19:00	7.18 pH	5.07 °C	807.93 μS/cm	6.93 mg/L	272.8 mV	3.10 m	250.00 ml/min
17/01/2022 10:14	20:00	7.19 pH	5.00 °C	807.82 μS/cm	7.07 mg/L	272.5 mV	3.10 m	250.00 ml/min
17/01/2022 10:15	21:00	7.19 pH	4.95 °C	807.73 μS/cm	7.19 mg/L	272.5 mV	3.10 m	250.00 ml/min
17/01/2022 10:16	22:00	7.23 pH	4.92 °C	808.13 μS/cm	7.30 mg/L	271.0 mV	3.10 m	250.00 ml/min
17/01/2022 10:17	23:00	7.24 pH	4.92 °C	808.36 μS/cm	7.36 mg/L	271.1 mV	3.10 m	250.00 ml/min
17/01/2022 10:18	24:00	7.19 pH	4.89 °C	807.18 μS/cm	7.38 mg/L	273.4 mV	3.10 m	250.00 ml/min
17/01/2022 10:19	25:00	7.21 pH	4.78 °C	807.50 μS/cm	7.48 mg/L	271.9 mV	3.10 m	250.00 ml/min

Sample ID:	Description:
BH621	

Test Date / Time: 18/01/2022 14:33:51

Project: Mobuoy **Operator Name:** JC

Location Name: BH622
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 12 m
Top of Screen: 3 m
Total Depth: 10.75 m

Initial Depth to Water: 2.47 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 6 m Estimated Total Volume Pumped:

2750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.38 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
18/01/2022 14:33	00:00	6.72 pH	9.83 °C	1,084.7 μS/cm	9.99 mg/L	18.6 mV	2.47 m	250.00 ml/min
18/01/2022 14:34	01:00	6.57 pH	9.82 °C	1,085.2 µS/cm	4.95 mg/L	24.3 mV	2.47 m	250.00 ml/min
18/01/2022 14:35	02:00	6.53 pH	9.76 °C	1,085.5 µS/cm	3.00 mg/L	26.7 mV	2.47 m	250.00 ml/min
18/01/2022 14:36	03:00	6.51 pH	9.72 °C	1,086.2 µS/cm	2.10 mg/L	27.8 mV	2.47 m	250.00 ml/min
18/01/2022 14:37	04:00	6.51 pH	9.72 °C	1,088.1 μS/cm 1,089.2 μS/cm	1.57 mg/L 1.26 mg/L	28.7 mV 29.2 mV	2.47 m	250.00 ml/min 250.00 ml/min
18/01/2022 14:38	05:00	6.50 pH	9.71 °C				2.47 m	
18/01/2022 14:39	06:00	6.50 pH	9.71 °C	1,089.7 μS/cm	1.08 mg/L	29.3 mV	2.47 m	250.00 ml/min
18/01/2022 14:40	07:00	6.50 pH	9.71 °C	1,089.8 µS/cm	0.96 mg/L	29.0 mV	2.47 m	250.00 ml/min
18/01/2022 14:41	08:00	6.49 pH	9.71 °C	1,089.4 µS/cm	0.88 mg/L	29.2 mV	2.47 m	250.00 ml/min
18/01/2022 14:42	09:00	6.50 pH	9.70 °C	1,087.0 μS/cm	0.81 mg/L	28.9 mV	2.47 m	250.00 ml/min
18/01/2022 14:43	10:00	6.48 pH	9.71 °C	1,087.7 μS/cm	0.77 mg/L	29.3 mV	2.47 m	250.00 ml/min
18/01/2022 14:44	11:00	6.48 pH	9.71 °C	1,089.1 µS/cm	0.72 mg/L	28.9 mV	2.47 m	250.00 ml/min

Sample ID:	Description:
BH622	

Test Date / Time: 19/01/2022 11:52:13

Project: Mobuoy **Operator Name:** JB

Location Name: BH623D Well Diameter: 5 cm Casing Type: Plastic Screen Length: 7 m Top of Screen: 5 m

Total Depth: 11.65 m

Initial Depth to Water: 4.45 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 8 m Estimated Total Volume Pumped:

1000 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 4.46 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
19/01/2022 11:52	00:00	6.70 pH	9.50 °C	1,923.6 μS/cm	1.74 mg/L	246.42 NTU	-64.2 mV	445.00 cm	250.00 ml/min
19/01/2022 11:53	01:00	6.74 pH	9.58 °C	1,928.3 μS/cm	1.38 mg/L	185.79 NTU	-69.8 mV	445.00 cm	250.00 ml/min
19/01/2022 11:54	02:00	6.74 pH	9.63 °C	1,936.8 μS/cm	1.16 mg/L	205.45 NTU	-73.5 mV	445.00 cm	250.00 ml/min
19/01/2022 11:55	03:00	6.74 pH	9.71 °C	1,944.3 μS/cm	1.04 mg/L	218.25 NTU	-77.0 mV	445.00 cm	250.00 ml/min
19/01/2022 11:56	04:00	6.75 pH	9.76 °C	1,945.9 μS/cm	1.01 mg/L	171.61 NTU	-78.4 mV	445.00 cm	250.00 ml/min
19/01/2022 11:57	05:09		9.73 °C	1,935.5 μS/cm	0.91 mg/L	145.37 NTU	-81.5 mV		
19/01/2022 11:58	06:30	6.74 pH	9.62 °C	1,929.8 μS/cm	0.90 mg/L	163.31 NTU	-83.2 mV		
19/01/2022 11:59	07:30	6.75 pH	9.58 °C	1,927.6 μS/cm	0.84 mg/L	147.64 NTU	-84.7 mV		
19/01/2022 12:00	08:30	6.75 pH	9.49 °C	1,920.3 µS/cm	0.76 mg/L	140.99 NTU	-84.5 mV		

Sample ID:	Description:
BH623D	

Test Date / Time: 20/01/2022 11:36:24

Project: Mobuoy Operator Name: JB

Location Name: BH624S
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 3.5 m
Top of Screen: 1 m
Total Depth: 5.39 m

Initial Depth to Water: 0.25 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 2.8 m Estimated Total Volume Pumped:

1250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 1.28 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
20/01/2022 11:36	00:00	6.68 pH	8.71 °C	2,069.8 μS/cm	0.21 mg/L	20.37 NTU	-75.9 mV	25.00 cm	250.00 ml/min
20/01/2022 11:37	01:00	6.71 pH	8.81 °C	2,075.1 μS/cm	0.18 mg/L	16.77 NTU	-79.0 mV	25.00 cm	250.00 ml/min
20/01/2022 11:38	02:00	6.71 pH	8.79 °C	2,079.6 μS/cm	0.27 mg/L	24.40 NTU	-81.5 mV	25.00 cm	250.00 ml/min
20/01/2022 11:39	03:00	6.71 pH	8.81 °C	2,091.7 μS/cm	0.26 mg/L	26.32 NTU	-83.4 mV	25.00 cm	250.00 ml/min
20/01/2022 11:40	04:00	6.70 pH	8.90 °C	2,096.7 μS/cm	0.30 mg/L	13.03 NTU	-85.1 mV	25.00 cm	250.00 ml/min
20/01/2022 11:41	05:00	6.70 pH	8.88 °C	2,095.1 μS/cm	0.26 mg/L	17.96 NTU	-86.7 mV	25.00 cm	250.00 ml/min

Samples

Sample ID:	Description:
BH624S	

Test Date / Time: 20/01/2022 10:59:22

Project: Mobuoy
Operator Name: JB

Location Name: BH624D
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 7 m
Top of Screen: 5 m
Total Depth: 12.61 m

Initial Depth to Water: 1.71 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 7.3 m Estimated Total Volume Pumped:

1750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.12 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
20/01/2022 10:59	00:00	6.73 pH	8.92 °C	2,676.6 μS/cm	1.07 mg/L	28.44 NTU	-73.1 mV	171.00 cm	250.00 ml/min
20/01/2022 11:00	01:00	6.74 pH	8.92 °C	2,667.4 μS/cm	1.00 mg/L	18.90 NTU	-76.8 mV	171.00 cm	250.00 ml/min
20/01/2022 11:01	02:00	6.73 pH	8.87 °C	2,663.2 μS/cm	0.93 mg/L	14.73 NTU	-79.7 mV	171.00 cm	250.00 ml/min
20/01/2022 11:02	03:00	6.73 pH	8.85 °C	2,666.6 μS/cm	0.79 mg/L	10.79 NTU	-82.6 mV	171.00 cm	250.00 ml/min
20/01/2022 11:03	04:00	6.72 pH	8.86 °C	2,669.9 μS/cm	0.67 mg/L	14.02 NTU	-85.3 mV	171.00 cm	250.00 ml/min
20/01/2022 11:04	05:00	6.72 pH	8.97 °C	2,679.2 μS/cm	0.65 mg/L	12.61 NTU	-87.1 mV	171.00 cm	250.00 ml/min
20/01/2022 11:05	06:00	6.71 pH	9.04 °C	2,670.3 μS/cm	0.60 mg/L	18.65 NTU	-88.8 mV	171.00 cm	250.00 ml/min
20/01/2022 11:06	07:00	6.71 pH	9.02 °C	2,671.5 μS/cm	0.56 mg/L	16.60 NTU	-90.4 mV	171.00 cm	250.00 ml/min

Sample ID:	Description:
BH624D	

Test Date / Time: 20/01/2022 10:56:11

Project: Mobuoy **Operator Name:** JC

Location Name: BH625
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 5 m
Top of Screen: 3 m
Total Depth: 8.1 m

Initial Depth to Water: 2.17 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 5.2 m Estimated Total Volume Pumped:

2500 ml Flow Cell

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.2 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
20/01/2022 10:56	00:00	6.59 pH	8.69 °C	2,217.6 μS/cm	5.90 mg/L	139.2 mV	2.17 m	250.00 ml/min
20/01/2022 10:57	01:00	6.60 pH	8.52 °C	2,211.8 μS/cm	3.54 mg/L	88.2 mV	2.17 m	250.00 ml/min
20/01/2022 10:58	02:00	2:00 6.60 pH 8.47 °C	8.47 °C	2,211.0 μS/cm	2.40 mg/L	43.1 mV	2.17 m	250.00 ml/min
20/01/2022 10:59	03:00	6.61 pH 8.43 °C		2,209.5 μS/cm	1.79 mg/L	9.4 mV	2.17 m	250.00 ml/min
20/01/2022 11:00	04:00	6.61 pH	8.37 °C	2,207.6 μS/cm	1.48 mg/L	-12.4 mV	2.17 m	250.00 ml/min
20/01/2022 11:01	05:00	6.61 pH	8.33 °C	2,207.7 μS/cm	1.31 mg/L	-27.4 mV	2.17 m	250.00 ml/min
20/01/2022 11:02	06:00	6.61 pH	8.34 °C	2,210.3 μS/cm	1.16 mg/L	-37.9 mV	2.17 m	250.00 ml/min
20/01/2022 11:03	07:00	6.61 pH	8.36 °C	2,210.5 μS/cm	1.05 mg/L	-45.3 mV	2.17 m	250.00 ml/min
20/01/2022 11:04	08:00	6.61 pH	8.35 °C	2,209.9 μS/cm	1.00 mg/L	-51.2 mV	2.17 m	250.00 ml/min
20/01/2022 11:05	2 09:00 6.61 pH 8.36 °C		8.36 °C	2,208.7 μS/cm	1.03 mg/L	-55.9 mV	2.17 m	250.00 ml/min
20/01/2022 11:06	10:00	6.61 pH	8.37 °C	2,208.5 μS/cm	0.99 mg/L	-59.6 mV	2.17 m	250.00 ml/min

Sample ID:	Description:
BH625	

Test Date / Time: 19/01/2022 10:29:39

Project: Mobuoy Operator Name: JB

Location Name: BH626
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 6 m
Top of Screen: 2 m
Total Depth: 8.05 m

Initial Depth to Water: 1.25 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 4.5 m Estimated Total Volume Pumped:

1250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 1.27 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
19/01/2022 10:29	00:00	6.67 pH	8.90 °C	904.07 μS/cm	0.54 mg/L	585.97 NTU	-54.6 mV	125.00 cm	250.00 ml/min
19/01/2022 10:30	01:00	6.67 pH	8.94 °C	910.57 μS/cm	0.44 mg/L	615.01 NTU	-57.4 mV	125.00 cm	250.00 ml/min
19/01/2022 10:31	02:00	6.66 pH	8.96 °C	910.42 μS/cm	0.40 mg/L	451.39 NTU	-59.1 mV	125.00 cm	250.00 ml/min
19/01/2022 10:32	03:00	6.66 pH	8.99 °C	919.04 μS/cm	0.33 mg/L	482.58 NTU	-60.7 mV	125.00 cm	250.00 ml/min
19/01/2022 10:33	04:00	6.65 pH	9.00 °C	919.09 μS/cm	0.31 mg/L	520.55 NTU	-61.6 mV	125.00 cm	250.00 ml/min
19/01/2022 10:34	05:00	6.65 pH	9.02 °C	920.62 μS/cm	0.30 mg/L	619.84 NTU	-62.6 mV	125.00 cm	250.00 ml/min

Samples

Sample ID:	Description:
BH626	

Test Date / Time: 19/01/2022 11:02:12

Project: Mobuoy Operator Name: JB

Location Name: BH627 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 6 m Top of Screen: 2 m Total Depth: 7.3 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 4.4 m Estimated Total Volume Pumped:

2500 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 1.51 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
19/01/2022 11:02	00:00	6.85 pH	8.76 °C	553.91 μS/cm	1.08 mg/L	768.84 NTU	-71.1 mV		250.00 ml/min
19/01/2022 11:03	01:00	6.85 pH	8.90 °C	544.69 μS/cm	0.52 mg/L	690.94 NTU	-79.6 mV		250.00 ml/min
19/01/2022 11:04	02:00	6.84 pH	8.95 °C	540.24 μS/cm	0.42 mg/L	572.24 NTU	-84.3 mV		250.00 ml/min
19/01/2022 11:05	03:00	6.84 pH	8.99 °C	535.69 μS/cm	0.38 mg/L	501.31 NTU	-88.3 mV		250.00 ml/min
19/01/2022 11:06	04:00	6.85 pH	9.05 °C	528.09 μS/cm	0.34 mg/L	528.97 NTU	-91.5 mV		250.00 ml/min
19/01/2022 11:07	05:00	6.85 pH	9.05 °C	517.39 μS/cm	0.32 mg/L	577.59 NTU	-94.1 mV		250.00 ml/min
19/01/2022 11:08	06:00	6.87 pH	9.06 °C	497.89 μS/cm	0.30 mg/L	500.51 NTU	-96.5 mV		250.00 ml/min
19/01/2022 11:09	07:00	6.87 pH	9.09 °C	496.93 μS/cm	0.27 mg/L	496.90 NTU	-97.9 mV		250.00 ml/min
19/01/2022 11:10	08:00	6.87 pH	9.11 °C	487.07 μS/cm	0.26 mg/L	535.83 NTU	-99.3 mV		250.00 ml/min
19/01/2022 11:11	09:00	6.90 pH	9.10 °C	487.32 μS/cm	0.26 mg/L	428.55 NTU	-99.2 mV		250.00 ml/min
19/01/2022 11:12	10:00	6.90 pH	9.05 °C	482.59 μS/cm	0.27 mg/L	359.72 NTU	-98.2 mV		250.00 ml/min

Sample ID:	Description:
BH627	

Test Date / Time: 19/01/2022 10:22:52

Project: Mobuoy **Operator Name:** JC

Location Name: BH628
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 5 m
Top of Screen: 3 m
Total Depth: 7.65 m

Initial Depth to Water: 2.41 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 5 m Estimated Total Volume Pumped:

1500 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.41 m **Instrument Used: Aqua TROLL 500**

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
19/01/2022 10:22	00:00	6.75 pH	8.68 °C	375.79 μS/cm	7.39 mg/L	70.5 mV	2.41 m	250.00 ml/min
19/01/2022 10:23	01:00	6.68 pH	8.70 °C	376.21 μS/cm	5.33 mg/L	70.7 mV	2.41 m	250.00 ml/min
19/01/2022 10:24	02:00	6.65 pH	8.73 °C	375.58 μS/cm	4.74 mg/L	70.8 mV	2.41 m	250.00 ml/min
19/01/2022 10:25	03:00	6.64 pH	8.71 °C	375.17 μS/cm	4.59 mg/L	71.1 mV	2.41 m	250.00 ml/min
19/01/2022 10:26	04:00	6.63 pH	8.73 °C	375.01 μS/cm	4.55 mg/L	71.7 mV	2.41 m	250.00 ml/min
19/01/2022 10:27	05:00	6.63 pH	8.73 °C	374.97 μS/cm	4.51 mg/L	71.8 mV	2.41 m	250.00 ml/min
19/01/2022 10:28	06:00	6.62 pH	8.75 °C	374.90 μS/cm	4.48 mg/L	72.4 mV	2.41 m	250.00 ml/min

Sample ID:	Description:
BH628	

Test Date / Time: 19/01/2022 09:41:52

Project: Mobuoy
Operator Name: JB

Location Name: BH629
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 5 m
Top of Screen: 3 m
Total Depth: 7.16 m

Initial Depth to Water: 1.76 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 4.5 m Estimated Total Volume Pumped:

1750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 1.78 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
19/01/2022 09:41	00:00	7.88 pH	9.01 °C	1,223.9 μS/cm	3.54 mg/L	546.39 NTU	-115.1 mV	176.00 cm	250.00 ml/min
19/01/2022 09:42	01:00	7.55 pH	8.93 °C	1,219.0 μS/cm	1.41 mg/L	672.04 NTU	-115.6 mV	176.00 cm	250.00 ml/min
19/01/2022 09:43	02:00	7.47 pH	8.72 °C	1,218.4 μS/cm	1.16 mg/L	464.05 NTU	-115.6 mV	176.00 cm	250.00 ml/min
19/01/2022 09:44	03:00	7.42 pH	8.63 °C	1,232.9 μS/cm	1.06 mg/L	506.83 NTU	-115.1 mV	176.00 cm	250.00 ml/min
19/01/2022 09:45	04:00	7.39 pH	8.63 °C	1,239.0 μS/cm	1.01 mg/L	516.08 NTU	-115.4 mV	176.00 cm	250.00 ml/min
19/01/2022 09:46	05:00	7.39 pH	8.63 °C	1,228.2 μS/cm	0.95 mg/L	470.68 NTU	-115.5 mV	176.00 cm	250.00 ml/min
19/01/2022 09:47	06:00	7.38 pH	8.65 °C	1,233.0 μS/cm	0.99 mg/L	458.38 NTU	-115.8 mV	176.00 cm	250.00 ml/min
19/01/2022 09:48	07:00	7.37 pH	8.72 °C	1,244.6 μS/cm	0.92 mg/L	555.61 NTU	-116.7 mV	176.00 cm	250.00 ml/min

Sample ID:	Description:
BH629	

Test Date / Time: 19/01/2022 09:44:25

Project: Mobuoy **Operator Name:** JC

Location Name: BH630
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 5 m
Top of Screen: 3 m
Total Depth: 7.62 m

Initial Depth to Water: 1.9 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 4.8 m Estimated Total Volume Pumped:

1750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 1.9 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
19/01/2022 09:44	00:00	7.23 pH	8.32 °C	495.24 μS/cm	11.01 mg/L	156.3 mV	1.90 m	250.00 ml/min
19/01/2022 09:45	01:00	6.89 pH	8.35 °C	498.47 μS/cm	9.88 mg/L	163.0 mV	1.90 m	250.00 ml/min
19/01/2022 09:46	02:00	6.78 pH	8.36 °C	499.25 μS/cm	9.60 mg/L	160.3 mV	1.90 m	250.00 ml/min
19/01/2022 09:47	03:00	6.73 pH	8.36 °C	499.94 μS/cm	9.51 mg/L	155.4 mV	1.90 m	250.00 ml/min
19/01/2022 09:48	04:00	6.72 pH	8.36 °C	500.62 μS/cm	9.57 mg/L	150.0 mV	1.90 m	250.00 ml/min
19/01/2022 09:49	05:00	6.71 pH	8.36 °C	500.75 μS/cm	9.66 mg/L	143.5 mV	1.90 m	250.00 ml/min
19/01/2022 09:50	06:00	6.72 pH	8.35 °C	501.05 μS/cm	9.75 mg/L	137.2 mV	1.90 m	250.00 ml/min
19/01/2022 09:51	07:00	6.73 pH	8.34 °C	501.18 μS/cm	9.85 mg/L	131.9 mV	1.90 m	250.00 ml/min

Sample ID:	Description:
BH630	

Test Date / Time: 15/02/2022 12:43:13

Project: Mobuoy

Operator Name: James Scott

Location Name: BH631 Well Diameter: 5 cm Screen Length: 3 m Top of Screen: 0.56 m Total Depth: 3.56 m

Initial Depth to Water: 2.07 m

Pump Type: Peristaltic Tubing Type: Watera

Pump Intake From TOC: 1 m Estimated Total Volume Pumped:

3500 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min

Final Draw Down: 0 m

Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Rain

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 10		
15/02/2022 12:43	00:00	6.76 pH	7.96 °C	732.51 μS/cm	4.75 mg/L		-43.2 mV	2.07 m	350.00 ml/min
15/02/2022 12:44	01:00	6.65 pH	7.89 °C	715.46 µS/cm	3.43 mg/L		-36.5 mV	2.07 m	350.00 ml/min
15/02/2022 12:45	02:00	6.58 pH	7.88 °C	706.78 μS/cm	2.68 mg/L		-31.6 mV	2.07 m	350.00 ml/min
15/02/2022 12:46	03:00	6.53 pH	7.89 °C	705.32 μS/cm	2.27 mg/L		-27.1 mV	2.07 m	350.00 ml/min
15/02/2022 12:47	04:00	6.50 pH	7.88 °C	700.38 μS/cm	2.04 mg/L		-23.9 mV	2.07 m	350.00 ml/min
15/02/2022 12:48	05:00	6.47 pH	7.87 °C	700.88 μS/cm	1.88 mg/L		-20.4 mV	2.07 m	350.00 ml/min
15/02/2022 12:49	06:00	6.45 pH	7.80 °C	696.96 µS/cm	1.83 mg/L		-15.8 mV	2.07 m	350.00 ml/min
15/02/2022 12:50	07:00	6.44 pH	7.78 °C	695.27 μS/cm	1.81 mg/L		-13.5 mV	2.07 m	350.00 ml/min
15/02/2022 12:51	08:00	6.44 pH	7.76 °C	692.47 μS/cm	1.79 mg/L		-11.4 mV	2.07 m	350.00 ml/min
15/02/2022 12:52	09:00	6.43 pH	7.77 °C	689.04 μS/cm	1.76 mg/L		-7.9 mV	2.07 m	350.00 ml/min
15/02/2022 12:53	10:00	6.42 pH	7.77 °C	683.52 μS/cm	1.72 mg/L		-5.7 mV	2.07 m	350.00 ml/min

Sample ID:	Description:
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Test Date / Time: 19/01/2022 11:48:44

Project: Mobuoy **Operator Name:** JC

Location Name: BH632 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 6 m Top of Screen: 4 m

Total Depth: 10.08 m

Initial Depth to Water: 1.06 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 5.5 m Estimated Total Volume Pumped:

3000 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.65 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
19/01/2022 11:48	00:00	6.72 pH	9.79 °C	1,544.2 μS/cm	3.45 mg/L	54.8 mV	1.06 m	250.00 ml/min
19/01/2022 11:49	01:00	6.76 pH	9.62 °C	1,536.7 μS/cm	2.02 mg/L	16.5 mV	1.06 m	250.00 ml/min
19/01/2022 11:50	02:00	6.77 pH	9.37 °C	1,539.9 µS/cm	1.44 mg/L	-10.5 mV	1.06 m	250.00 ml/min
19/01/2022 11:51	03:00	6.78 pH	9.23 °C	1,554.3 μS/cm	1.14 mg/L	-28.2 mV	1.06 m	250.00 ml/min
19/01/2022 11:52	04:00	6.79 pH	9.25 °C	1,555.9 μS/cm	1.00 mg/L	-41.3 mV	1.06 m	250.00 ml/min
19/01/2022 11:53	05:00	6.79 pH	9.28 °C	1,558.0 μS/cm	0.86 mg/L	-50.4 mV	1.06 m	250.00 ml/min
19/01/2022 11:54	06:00	6.79 pH	9.33 °C	1,555.6 µS/cm	0.75 mg/L	-58.0 mV	1.06 m	250.00 ml/min
19/01/2022 11:55	07:00	6.80 pH	9.30 °C	1,549.6 μS/cm	0.70 mg/L	-64.2 mV	1.06 m	250.00 ml/min
19/01/2022 11:56	08:00	6.80 pH	9.15 °C	1,546.6 µS/cm	0.73 mg/L	-68.8 mV	1.06 m	250.00 ml/min
19/01/2022 11:57	09:00	6.79 pH	9.04 °C	1,550.0 µS/cm	0.71 mg/L	-72.7 mV	1.06 m	250.00 ml/min
19/01/2022 11:58	10:00	6.80 pH	8.90 °C	1,552.7 µS/cm	0.70 mg/L	-75.8 mV	1.06 m	250.00 ml/min
19/01/2022 11:59	11:00	6.80 pH	8.82 °C	1,555.0 μS/cm	0.65 mg/L	-78.7 mV	1.06 m	250.00 ml/min
19/01/2022 12:00	12:00	6.80 pH	8.77 °C	1,553.5 µS/cm	0.60 mg/L	-81.0 mV	1.06 m	250.00 ml/min

Sample ID:	Description:
BH632	

Test Date / Time: 17/01/2022 13:53:17

Project: Mobuoy **Operator Name:** JC

Location Name: BH633 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 5 m Top of Screen: 6 m

Total Depth: 9.66 m

Initial Depth to Water: 4.04 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 7 m Estimated Total Volume Pumped:

2750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 4.32 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
17/01/2022 13:53	00:00	7.40 pH	8.56 °C	1,205.9 μS/cm	7.00 mg/L	46.7 mV	4.04 m	250.00 ml/min
17/01/2022 13:54	01:00	7.40 pH	8.60 °C	1,211.7 μS/cm	6.09 mg/L	48.6 mV	4.04 m	250.00 ml/min
17/01/2022 13:55	02:00	7.41 pH	8.73 °C	1,216.7 μS/cm	6.14 mg/L	51.6 mV	4.04 m	250.00 ml/min
17/01/2022 13:56	03:00	7.41 pH	8.68 °C	1,220.4 μS/cm	6.38 mg/L	54.9 mV	4.04 m	250.00 ml/min
17/01/2022 13:57	04:00	7.43 pH	8.59 °C	1,225.0 µS/cm	6.73 mg/L	58.1 mV	4.04 m	250.00 ml/min
17/01/2022 13:58	05:00	7.44 pH	8.49 °C	1,232.0 μS/cm	7.07 mg/L	61.2 mV	4.04 m	250.00 ml/min
17/01/2022 13:59	06:00	7.46 pH	8.43 °C	1,237.4 μS/cm	7.35 mg/L	64.4 mV	4.04 m	250.00 ml/min
17/01/2022 14:00	07:00	7.46 pH	8.41 °C	1,241.0 µS/cm	7.53 mg/L	67.2 mV	4.04 m	250.00 ml/min
17/01/2022 14:01	08:00	7.47 pH	8.44 °C	1,250.3 μS/cm	7.60 mg/L	69.7 mV	4.04 m	250.00 ml/min
17/01/2022 14:02	09:00	7.48 pH	8.47 °C	1,251.6 μS/cm	7.62 mg/L	72.2 mV	4.04 m	250.00 ml/min
17/01/2022 14:03	10:00	7.47 pH	8.49 °C	1,252.9 µS/cm	7.62 mg/L	74.6 mV	4.04 m	250.00 ml/min
17/01/2022 14:04	11:00	7.48 pH	8.51 °C	1,252.8 μS/cm	7.61 mg/L	76.7 mV	4.04 m	250.00 ml/min

Sample ID:	Description:
BH633	

Test Date / Time: 18/01/2022 11:40:01

Project: Mobuoy **Operator Name:** JC

Location Name: BH635S
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 3.6 m
Top of Screen: 2 m
Total Depth: 7.25 m

Initial Depth to Water: 1.59 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 4.4 m Estimated Total Volume Pumped:

2250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 1.59 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
18/01/2022 11:40	00:00	6.46 pH	8.06 °C	1,300.8 μS/cm	4.49 mg/L	-6.0 mV	1.59 m	250.00 ml/min
18/01/2022 11:41	01:00	6.46 pH	7.96 °C	1,300.3 µS/cm	2.42 mg/L	-22.1 mV	1.59 m	250.00 ml/min
18/01/2022 11:42	02:00	6.46 pH	7.89 °C	1,301.4 µS/cm	1.60 mg/L	-32.6 mV	1.59 m	250.00 ml/min
18/01/2022 11:43	03:00	6.46 pH	7.84 °C	1,300.9 µS/cm	1.19 mg/L	-40.4 mV	1.59 m	250.00 ml/min
18/01/2022 11:44	04:00	6.46 pH	7.81 °C	1,297.1 µS/cm	0.96 mg/L	-46.3 mV	1.59 m	250.00 ml/min
18/01/2022 11:45	05:00	6.46 pH	7.80 °C	1,295.7 µS/cm	0.80 mg/L	-51.0 mV	1.59 m	250.00 ml/min
18/01/2022 11:46	06:00	6.46 pH	7.78 °C	1,298.5 µS/cm	0.70 mg/L	-54.8 mV	1.59 m	250.00 ml/min
18/01/2022 11:47	07:00	6.46 pH	7.78 °C	1,301.9 µS/cm	0.65 mg/L	-57.6 mV	1.59 m	250.00 ml/min
18/01/2022 11:48	08:00	6.45 pH	7.79 °C	1,304.4 µS/cm	0.60 mg/L	-60.3 mV	1.59 m	250.00 ml/min
18/01/2022 11:49	09:00	6.45 pH	7.80 °C	1,304.3 μS/cm	0.56 mg/L	-62.5 mV	1.59 m	250.00 ml/min

Sample ID: Description:

BH635S	
DI 10333	

Test Date / Time: 18/01/2022 12:07:46

Project: Mobuoy **Operator Name:** JC

Location Name: BH635D Well Diameter: 5 cm Casing Type: Plastic Screen Length: 2 m Top of Screen: 6 m

Total Depth: 8.66 m

Initial Depth to Water: 3.44 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 7 m Estimated Total Volume Pumped:

3000 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.43 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
18/01/2022 12:07	00:00	6.53 pH	8.44 °C	1,321.6 μS/cm	7.47 mg/L	-61.0 mV	3.44 m	250.00 ml/min
18/01/2022 12:08	01:00	6.51 pH	8.40 °C	1,332.1 µS/cm	4.16 mg/L	-62.6 mV	3.44 m	250.00 ml/min
18/01/2022 12:09	02:00	6.49 pH	8.35 °C	1,335.7 µS/cm	2.67 mg/L	-64.3 mV	3.44 m	250.00 ml/min
18/01/2022 12:10	03:00	6.49 pH	8.37 °C	1,338.2 µS/cm	1.77 mg/L	-65.9 mV	3.44 m	250.00 ml/min
18/01/2022 12:11	04:00	6.49 pH	8.36 °C	1,350.1 µS/cm	1.35 mg/L	-67.3 mV	3.44 m	250.00 ml/min
18/01/2022 12:12	05:00	6.49 pH	8.36 °C	1,356.4 μS/cm	1.10 mg/L	-68.7 mV	3.44 m	250.00 ml/min
18/01/2022 12:13	06:00	6.49 pH	8.37 °C	1,355.7 μS/cm	0.95 mg/L	-69.8 mV	3.44 m	250.00 ml/min
18/01/2022 12:14	07:00	6.49 pH	8.36 °C	1,356.8 μS/cm	0.84 mg/L	-70.8 mV	3.44 m	250.00 ml/min
18/01/2022 12:15	08:00	6.49 pH	8.38 °C	1,357.9 μS/cm	0.74 mg/L	-71.7 mV	3.44 m	250.00 ml/min
18/01/2022 12:16	09:00	6.48 pH	8.37 °C	1,357.7 μS/cm	0.70 mg/L	-72.3 mV	3.44 m	250.00 ml/min
18/01/2022 12:17	10:00	6.48 pH	8.39 °C	1,356.3 μS/cm	0.66 mg/L	-72.7 mV	3.44 m	250.00 ml/min
18/01/2022 12:18	11:00	6.48 pH	8.39 °C	1,357.3 μS/cm	0.60 mg/L	-73.0 mV	3.44 m	250.00 ml/min
18/01/2022 12:19	12:00	6.48 pH	8.41 °C	1,355.0 μS/cm	0.58 mg/L	-73.5 mV	3.44 m	250.00 ml/min

Sample ID:	Description:
BH635D	

Test Date / Time: 15/02/2022 11:06:07

Project: Mobuoy

Operator Name: James Scott

Location Name: BH636
Well Diameter: 5 cm
Screen Length: 2 m
Top of Screen: 11.5 m
Total Depth: 13.51 m

Initial Depth to Water: 3.02 m

Pump Type: Peristaltic Tubing Type: Watera

Pump Intake From TOC: 1 m Estimated Total Volume Pumped:

4900 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min

Final Draw Down: 0 m

Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

BH636D

Weather Conditions:

Overcast

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 10	+/- 10		
15/02/2022 11:06	00:00	7.54 pH	8.40 °C	451.04 μS/cm	10.16 mg/L		30.7 mV	3.02 m	350.00 ml/min
15/02/2022 11:07	01:00	7.63 pH	9.00 °C	442.84 μS/cm	6.46 mg/L		-48.9 mV	3.02 m	350.00 ml/min
15/02/2022 11:08	02:00	7.66 pH	9.28 °C	439.22 μS/cm	4.19 mg/L		-85.2 mV	3.02 m	350.00 ml/min
15/02/2022 11:09	03:00	7.66 pH	9.41 °C	438.63 μS/cm	3.00 mg/L		-102.4 mV	3.02 m	350.00 ml/min
15/02/2022 11:10	04:00	7.67 pH	9.47 °C	439.32 μS/cm	2.34 mg/L		-115.3 mV	3.02 m	350.00 ml/min
15/02/2022 11:11	05:00	7.67 pH	9.52 °C	439.67 μS/cm	1.92 mg/L		-124.6 mV	3.02 m	350.00 ml/min
15/02/2022 11:12	06:00	7.65 pH	9.50 °C	442.28 μS/cm	1.70 mg/L		-125.1 mV	3.02 m	350.00 ml/min
15/02/2022 11:13	07:00	7.64 pH	9.56 °C	444.01 μS/cm	1.58 mg/L		-128.5 mV	3.02 m	350.00 ml/min
15/02/2022 11:14	08:00	7.63 pH	9.59 °C	444.54 μS/cm	1.45 mg/L		-135.8 mV	3.02 m	350.00 ml/min
15/02/2022 11:15	09:00	7.63 pH	9.67 °C	445.17 μS/cm	1.38 mg/L		-140.8 mV	3.02 m	350.00 ml/min
15/02/2022 11:16	10:00	7.64 pH	9.67 °C	445.72 μS/cm	1.35 mg/L		-145.8 mV	3.02 m	350.00 ml/min
15/02/2022 11:17	11:00	7.65 pH	9.73 °C	445.49 μS/cm	1.32 mg/L		-150.4 mV	3.02 m	350.00 ml/min
15/02/2022 11:18	12:00	7.66 pH	9.69 °C	445.81 μS/cm	1.28 mg/L		-153.4 mV	3.02 m	350.00 ml/min

15/02/2022 11:19	13:00	7.67 pH	9.80 °C	446.78 μS/cm	1.20 mg/L	-157.6 mV	3.02 m	350.00 ml/min
15/02/2022 11:20	14:00	7.68 pH	9.78 °C	447.23 μS/cm	1.14 mg/L	-162.8 mV	3.02 m	350.00 ml/min

Sample ID:	Description:
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Test Date / Time: 18/01/2022 10:53:54

Project: Mobuoy **Operator Name:** JC

Location Name: BH637
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 2.1 m
Top of Screen: 8 m
Total Depth: 6.12 m

Initial Depth to Water: 3.1 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 4.6 m Estimated Total Volume Pumped:

2250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.1 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
18/01/2022 10:53	00:00	6.82 pH	9.03 °C	756.24 μS/cm	7.82 mg/L	127.6 mV	3.10 m	250.00 ml/min
18/01/2022 10:54	01:00	6.80 pH	9.26 °C	762.08 μS/cm	4.30 mg/L	22.7 mV	3.10 m	250.00 ml/min
18/01/2022 10:55	02:00	6.85 pH	9.37 °C	741.65 μS/cm	2.94 mg/L	-32.6 mV	3.10 m	250.00 ml/min
18/01/2022 10:56	03:00	6.84 pH	9.43 °C	742.20 µS/cm	2.44 mg/L	-55.0 mV	3.10 m	250.00 ml/min
18/01/2022 10:57	04:00	6.84 pH	9.51 °C	746.78 µS/cm	2.22 mg/L	-67.8 mV	3.10 m	250.00 ml/min
18/01/2022 10:58	05:00	6.82 pH	9.55 °C	760.90 μS/cm	2.10 mg/L	-74.3 mV	3.10 m	250.00 ml/min
18/01/2022 10:59	06:00	6.82 pH	9.55 °C	766.72 µS/cm	2.02 mg/L	-79.5 mV	3.10 m	250.00 ml/min
18/01/2022 11:00	07:00	6.82 pH	9.57 °C	774.86 µS/cm	1.97 mg/L	-83.2 mV	3.10 m	250.00 ml/min
18/01/2022 11:01	08:00	6.83 pH	9.58 °C	769.94 µS/cm	1.95 mg/L	-85.9 mV	3.10 m	250.00 ml/min
18/01/2022 11:02	09:00	6.83 pH	9.58 °C	781.39 μS/cm	1.92 mg/L	-88.4 mV	3.10 m	250.00 ml/min

Sample ID: Description:

Test Date / Time: 18/01/2022 10:12:18

Project: Mobuoy **Operator Name:** JC

Location Name: BH638
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 4.5 m
Top of Screen: 0.5 m

Total Depth: 5.67 m

Initial Depth to Water: 0.66 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 3.5 m Estimated Total Volume Pumped:

3000 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 1.12 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
18/01/2022 10:12	00:00	7.12 pH	8.37 °C	504.28 μS/cm	4.87 mg/L	166.7 mV	0.66 m	250.00 ml/min
18/01/2022 10:13	01:00	7.11 pH	8.20 °C	498.38 μS/cm	3.06 mg/L	175.7 mV	0.66 m	250.00 ml/min
18/01/2022 10:14	02:00	7.24 pH	8.13 °C	497.26 μS/cm	2.25 mg/L	171.5 mV	0.66 m	250.00 ml/min
18/01/2022 10:15	03:00	7.27 pH	8.07 °C	496.17 μS/cm	1.65 mg/L	174.5 mV	0.66 m	250.00 ml/min
18/01/2022 10:16	04:00	7.24 pH	7.99 °C	496.78 μS/cm	1.44 mg/L	178.7 mV	0.66 m	250.00 ml/min
18/01/2022 10:17	05:00	7.32 pH	7.99 °C	496.27 μS/cm	1.39 mg/L	175.3 mV	0.66 m	250.00 ml/min
18/01/2022 10:18	06:00	7.32 pH	8.00 °C	496.25 μS/cm	1.11 mg/L	175.6 mV	0.66 m	250.00 ml/min
18/01/2022 10:19	07:00	7.33 pH	7.97 °C	495.87 μS/cm	0.94 mg/L	177.6 mV	0.66 m	250.00 ml/min
18/01/2022 10:20	08:00	7.34 pH	7.97 °C	495.84 μS/cm	0.82 mg/L	176.8 mV	0.66 m	250.00 ml/min
18/01/2022 10:21	09:00	7.34 pH	7.97 °C	496.16 μS/cm	0.73 mg/L	177.9 mV	0.66 m	250.00 ml/min
18/01/2022 10:22	10:00	7.34 pH	7.98 °C	496.19 μS/cm	0.67 mg/L	177.5 mV	0.66 m	250.00 ml/min
18/01/2022 10:23	11:00	7.36 pH	7.97 °C	496.73 μS/cm	0.63 mg/L	177.3 mV	0.66 m	250.00 ml/min
18/01/2022 10:24	12:00	7.36 pH	7.97 °C	496.93 μS/cm	0.62 mg/L	177.0 mV	0.66 m	250.00 ml/min

Sample ID:	Description:
BH638	

Test Date / Time: 17/01/2022 14:30:54

Project: Mobuoy **Operator Name:** JC

Location Name: BH634
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 2.6 m
Top of Screen: 5.7 m
Total Depth: 8.64 m

Initial Depth to Water: 5.12 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 6.9 m Estimated Total Volume Pumped:

2000 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 5.15 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
17/01/2022 14:30	00:00	6.39 pH	9.76 °C	1,291.6 µS/cm	3.70 mg/L	62.1 mV	5.12 m	250.00 ml/min
17/01/2022 14:31	01:00	6.33 pH	9.52 °C	1,285.2 µS/cm	2.33 mg/L	56.4 mV	5.12 m	250.00 ml/min
17/01/2022 14:32	02:00	6.32 pH	9.41 °C	1,295.8 µS/cm	2.25 mg/L	55.2 mV	5.12 m	250.00 ml/min
17/01/2022 14:33	03:00	6.32 pH	9.40 °C	1,294.5 µS/cm	2.60 mg/L	54.4 mV	5.12 m	250.00 ml/min
17/01/2022 14:34	04:00	6.32 pH	9.42 °C	1,300.7 µS/cm	2.79 mg/L	53.7 mV	5.12 m	250.00 ml/min
17/01/2022 14:35	05:00	6.33 pH	9.53 °C	1,308.3 µS/cm	2.85 mg/L	52.0 mV	5.12 m	250.00 ml/min
17/01/2022 14:36	06:00	6.33 pH	9.58 °C	1,309.8 µS/cm	2.87 mg/L	50.7 mV	5.12 m	250.00 ml/min
17/01/2022 14:37	07:00	6.32 pH	9.54 °C	1,313.9 µS/cm	2.88 mg/L	49.9 mV	5.12 m	250.00 ml/min
17/01/2022 14:38	08:00	6.32 pH	9.53 °C	1,316.9 µS/cm	2.91 mg/L	48.7 mV	5.12 m	250.00 ml/min

Sample ID:	Description:
BH644	

Test Date / Time: 17/01/2022 15:13:31

Project: Mobuoy **Operator Name:** JB

Location Name: BH645
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 6 m
Top of Screen: 0.8 m
Total Depth: 7.27 m

Initial Depth to Water: 4.33 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 5.8 m Estimated Total Volume Pumped:

1750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 4.34 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
17/01/2022 15:13	00:00	6.81 pH	9.02 °C	5,502.0 μS/cm	3.39 mg/L	117.82 NTU	-96.5 mV	433.00 cm	250.00 ml/min
17/01/2022 15:14	01:00	6.80 pH	9.37 °C	5,458.5 μS/cm	1.14 mg/L	102.56 NTU	-106.6 mV	433.00 cm	250.00 ml/min
17/01/2022 15:15	02:00	6.81 pH	9.48 °C	5,440.1 μS/cm	0.77 mg/L	106.39 NTU	-112.3 mV	433.00 cm	250.00 ml/min
17/01/2022 15:16	03:00	6.80 pH	9.52 °C	5,426.7 μS/cm	0.60 mg/L	85.30 NTU	-116.6 mV	433.00 cm	250.00 ml/min
17/01/2022 15:17	04:00	6.80 pH	9.57 °C	5,419.3 μS/cm	0.48 mg/L	95.70 NTU	-119.7 mV	433.00 cm	250.00 ml/min
17/01/2022 15:18	05:00	6.80 pH	9.54 °C	5,405.3 μS/cm	0.46 mg/L	97.28 NTU	-122.5 mV	433.00 cm	250.00 ml/min
17/01/2022 15:19	06:00	6.80 pH	9.46 °C	5,395.7 μS/cm	0.42 mg/L	98.23 NTU	-124.1 mV	433.00 cm	250.00 ml/min
17/01/2022 15:20	07:00	6.80 pH	9.37 °C	5,391.5 μS/cm	0.40 mg/L	83.83 NTU	-125.9 mV	433.00 cm	250.00 ml/min

Sample ID:	Description:
BH645	

Test Date / Time: 17/01/2022 14:15:42

Project: Mobuoy
Operator Name: JB

Location Name: BH646
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 6 m
Top of Screen: 1 m
Total Depth: 5.11 m

Initial Depth to Water: 4.32 m

Pump Type: Peristaltic - geopump

Tubing Type: HDPE

Pump Intake From TOC: 4.7 m Estimated Total Volume Pumped:

1250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 4.36 m Instrument Used: Aqua TROLL 500

Serial Number: 754810

Test Notes:

Base of well silted up to 5.11m bgl

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 1	+/- 20	+/- 5	
17/01/2022 14:15	00:00	6.81 pH	9.40 °C	4,928.8 μS/cm	1.29 mg/L	787.56 NTU	-102.8 mV	432.00 cm	250.00 ml/min
17/01/2022 14:16	01:00	6.81 pH	9.90 °C	4,964.8 μS/cm	0.47 mg/L	685.57 NTU	-119.7 mV	432.00 cm	250.00 ml/min
17/01/2022 14:17	02:00	6.82 pH	10.06 °C	4,980.9 μS/cm	0.46 mg/L	770.62 NTU	-124.3 mV	432.00 cm	250.00 ml/min
17/01/2022 14:18	03:00	6.82 pH	10.09 °C	5,042.9 μS/cm	0.51 mg/L	544.97 NTU	-127.6 mV	432.00 cm	250.00 ml/min
17/01/2022 14:19	04:00	6.82 pH	10.13 °C	5,099.4 μS/cm	0.45 mg/L	659.68 NTU	-130.7 mV	432.00 cm	250.00 ml/min
17/01/2022 14:20	05:00	6.82 pH	10.17 °C	5,146.2 μS/cm	0.41 mg/L	636.21 NTU	-133.5 mV	432.00 cm	250.00 ml/min

Samples

Sample ID:	Description:
BH646 and DUP2	

Test Date / Time: 17/01/2022 15:26:01

Project: Mobuoy **Operator Name:** JC

Location Name: BH651 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 2 m Top of Screen: 6 m

Total Depth: 8.08 m

Initial Depth to Water: 4.47 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 6.5 m Estimated Total Volume Pumped:

5500 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 4.5 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
17/01/2022 15:26	00:00	6.88 pH	9.06 °C	1,898.4 μS/cm	9.30 mg/L	9.5 mV	4.47 m	250.00 ml/min
17/01/2022 15:27	01:00	7.00 pH	9.02 °C	1,886.8 µS/cm	6.52 mg/L	-11.7 mV	4.47 m	250.00 ml/min
17/01/2022 15:28	02:00	7.05 pH	8.89 °C	1,881.0 µS/cm	6.08 mg/L	-22.1 mV	4.47 m	250.00 ml/min
17/01/2022 15:29	03:00	7.08 pH	8.72 °C	1,881.2 µS/cm	6.22 mg/L	-29.1 mV	4.47 m	250.00 ml/min
17/01/2022 15:30	04:00	7.11 pH	8.57 °C	1,881.5 μS/cm	6.44 mg/L	-34.0 mV	4.47 m	250.00 ml/min
17/01/2022 15:31	05:00	7.13 pH	8.45 °C	1,881.0 µS/cm	6.66 mg/L	-37.3 mV	4.47 m	250.00 ml/min
17/01/2022 15:32	06:00	7.15 pH	8.34 °C	1,880.1 µS/cm	6.89 mg/L	-40.0 mV	4.47 m	250.00 ml/min
17/01/2022 15:33	07:00	7.17 pH	8.23 °C	1,879.8 µS/cm	7.10 mg/L	-42.1 mV	4.47 m	250.00 ml/min
17/01/2022 15:34	08:00	7.18 pH	8.14 °C	1,879.0 µS/cm	7.26 mg/L	-43.8 mV	4.47 m	250.00 ml/min
17/01/2022 15:35	09:00	7.20 pH	8.05 °C	1,877.7 μS/cm	7.43 mg/L	-45.3 mV	4.47 m	250.00 ml/min
17/01/2022 15:36	10:00	7.21 pH	7.97 °C	1,877.2 μS/cm	7.61 mg/L	-46.4 mV	4.47 m	250.00 ml/min
17/01/2022 15:37	11:00	7.23 pH	7.88 °C	1,876.3 µS/cm	7.77 mg/L	-47.5 mV	4.47 m	250.00 ml/min
17/01/2022 15:38	12:00	7.24 pH	7.80 °C	1,875.9 μS/cm	7.91 mg/L	-48.6 mV	4.47 m	250.00 ml/min

17/01/2022 15:39	13:00	7.26 pH	7.72 °C	1,874.8 μS/cm	8.06 mg/L	-49.5 mV	4.47 m	250.00 ml/min
17/01/2022 15:40	14:00	7.27 pH	7.64 °C	1,873.7 μS/cm	8.21 mg/L	-50.3 mV	4.47 m	250.00 ml/min
17/01/2022 15:41	15:00	7.28 pH	7.56 °C	1,873.4 μS/cm	8.35 mg/L	-51.2 mV	4.47 m	250.00 ml/min
17/01/2022 15:42	16:00	7.30 pH	7.48 °C	1,872.4 μS/cm	8.49 mg/L	-51.9 mV	4.47 m	250.00 ml/min
17/01/2022 15:43	17:00	7.31 pH	7.40 °C	1,871.9 µS/cm	8.60 mg/L	-52.6 mV	4.47 m	250.00 ml/min
17/01/2022 15:44	18:00	7.32 pH	7.32 °C	1,870.9 μS/cm	8.72 mg/L	-53.3 mV	4.47 m	250.00 ml/min
17/01/2022 15:45	19:00	7.34 pH	7.25 °C	1,870.3 μS/cm	8.82 mg/L	-53.9 mV	4.47 m	250.00 ml/min
17/01/2022 15:46	20:00	7.35 pH	7.17 °C	1,869.4 µS/cm	8.88 mg/L	-54.5 mV	4.47 m	250.00 ml/min
17/01/2022 15:47	21:00	7.36 pH	7.10 °C	1,869.0 µS/cm	8.93 mg/L	-54.9 mV	4.47 m	250.00 ml/min
17/01/2022 15:48	22:00	7.37 pH	7.03 °C	1,868.4 μS/cm	8.99 mg/L	-55.3 mV	4.47 m	250.00 ml/min

Sample ID:	Description:
BH651	

Test Date / Time: 20/01/2022 11:30:28

Project: Mobuoy **Operator Name:** JC

Location Name: BH653 Well Diameter: 5 cm Casing Type: Plastic Total Depth: 8.32 m

Initial Depth to Water: 0.9 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 5 m Estimated Total Volume Pumped:

2250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.93 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
20/01/2022 11:30	00:00	6.86 pH	8.66 °C	1,300.5 μS/cm	8.14 mg/L	-70.2 mV	0.90 m	250.00 ml/min
20/01/2022 11:31	01:00	6.71 pH	8.61 °C	1,293.1 µS/cm	4.48 mg/L	-57.6 mV	0.90 m	250.00 ml/min
20/01/2022 11:32	02:00	6.66 pH	8.31 °C	1,295.6 μS/cm	2.81 mg/L	-52.6 mV	0.90 m	250.00 ml/min
20/01/2022 11:33	03:00	6.63 pH	8.16 °C	1,303.4 µS/cm	1.99 mg/L	-48.3 mV	0.90 m	250.00 ml/min
20/01/2022 11:34	04:00	6.62 pH	8.13 °C	1,308.0 µS/cm	1.53 mg/L	-45.2 mV	0.90 m	250.00 ml/min
20/01/2022 11:35	05:00	6.61 pH	8.08 °C	1,312.6 μS/cm	1.28 mg/L	-42.5 mV	0.90 m	250.00 ml/min
20/01/2022 11:36	06:00	6.61 pH	8.00 °C	1,320.0 µS/cm	1.16 mg/L	-40.3 mV	0.90 m	250.00 ml/min
20/01/2022 11:37	07:00	6.60 pH	7.96 °C	1,326.8 µS/cm	1.08 mg/L	-38.3 mV	0.90 m	250.00 ml/min
20/01/2022 11:38	08:00	6.60 pH	7.93 °C	1,335.1 µS/cm	1.02 mg/L	-36.2 mV	0.90 m	250.00 ml/min
20/01/2022 11:39	09:00	6.60 pH	7.94 °C	1,345.2 µS/cm	1.01 mg/L	-34.5 mV	0.90 m	250.00 ml/min

Sample ID:	Description:
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Test Date / Time: 19/01/2022 14:02:38

Project: Mobuoy **Operator Name:** JC

Location Name: BH654D Well Diameter: 5 cm Casing Type: Plastic Total Depth: 7.68 m

Initial Depth to Water: 3.33 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 5.5 m Estimated Total Volume Pumped:

2750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.32 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
19/01/2022 14:02	00:00	7.11 pH	9.64 °C	1,350.9 μS/cm	8.11 mg/L	-32.3 mV	3.33 m	250.00 ml/min
19/01/2022 14:03	01:00	7.04 pH	9.72 °C	1,394.6 µS/cm	6.87 mg/L	-31.7 mV	3.33 m	250.00 ml/min
19/01/2022 14:04	02:00	7.04 pH	9.71 °C	1,409.7 µS/cm	5.90 mg/L	-32.4 mV	3.33 m	250.00 ml/min
19/01/2022 14:05	03:00	7.06 pH	9.62 °C	1,416.8 µS/cm	5.86 mg/L	-33.2 mV	3.33 m	250.00 ml/min
19/01/2022 14:06	04:00	7.08 pH	9.54 °C	1,416.4 µS/cm	6.20 mg/L	-34.3 mV	3.33 m	250.00 ml/min
19/01/2022 14:07	05:00	7.09 pH	9.44 °C	1,419.9 µS/cm	6.65 mg/L	-35.6 mV	3.33 m	250.00 ml/min
19/01/2022 14:08	06:00	7.10 pH	9.37 °C	1,422.6 μS/cm	7.01 mg/L	-36.7 mV	3.33 m	250.00 ml/min
19/01/2022 14:09	07:00	7.10 pH	9.25 °C	1,427.8 µS/cm	7.24 mg/L	-37.6 mV	3.33 m	250.00 ml/min
19/01/2022 14:10	08:00	7.10 pH	9.16 °C	1,429.3 µS/cm	7.36 mg/L	-38.5 mV	3.33 m	250.00 ml/min
19/01/2022 14:11	09:00	7.10 pH	9.08 °C	1,432.5 µS/cm	7.41 mg/L	-39.3 mV	3.33 m	250.00 ml/min
19/01/2022 14:12	10:00	7.10 pH	9.04 °C	1,433.9 µS/cm	7.44 mg/L	-39.9 mV	3.33 m	250.00 ml/min
19/01/2022 14:13	11:00	7.10 pH	9.03 °C	1,434.4 μS/cm	7.42 mg/L	-40.5 mV	3.33 m	250.00 ml/min

Sample ID:	Description:
BH354D	

Test Date / Time: 19/01/2022 14:34:27

Project: Mobuoy **Operator Name:** JC

Location Name: BH654S Well Diameter: 5 cm Casing Type: Plastic Total Depth: 4.38 m

Initial Depth to Water: 3.32 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 3.9 m Estimated Total Volume Pumped:

3750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.35 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
19/01/2022 14:34	00:00	7.21 pH	9.60 °C	815.98 μS/cm	4.14 mg/L	-45.4 mV	3.32 m	250.00 ml/min
19/01/2022 14:35	01:00	7.18 pH	9.48 °C	816.64 µS/cm	2.59 mg/L	-46.3 mV	3.32 m	250.00 ml/min
19/01/2022 14:36	02:00	7.16 pH	9.45 °C	820.67 µS/cm	1.66 mg/L	-46.0 mV	3.32 m	250.00 ml/min
19/01/2022 14:37	03:00	7.15 pH	9.41 °C	819.43 µS/cm	1.23 mg/L	-46.5 mV	3.32 m	250.00 ml/min
19/01/2022 14:38	04:00	7.14 pH	9.38 °C	819.74 μS/cm	1.04 mg/L	-47.1 mV	3.32 m	250.00 ml/min
19/01/2022 14:39	05:00	7.17 pH	9.37 °C	815.67 µS/cm	0.94 mg/L	-47.1 mV	3.32 m	250.00 ml/min
19/01/2022 14:40	06:00	7.13 pH	9.37 °C	816.06 µS/cm	0.88 mg/L	-47.9 mV	3.32 m	250.00 ml/min
19/01/2022 14:41	07:00	7.12 pH	9.38 °C	816.28 μS/cm	0.81 mg/L	-48.7 mV	3.32 m	250.00 ml/min
19/01/2022 14:42	08:00	7.11 pH	9.37 °C	816.09 µS/cm	0.75 mg/L	-49.6 mV	3.32 m	250.00 ml/min
19/01/2022 14:43	09:00	7.11 pH	9.35 °C	817.32 μS/cm	0.67 mg/L	-50.7 mV	3.32 m	250.00 ml/min
19/01/2022 14:44	10:00	7.11 pH	9.34 °C	817.03 μS/cm	0.61 mg/L	-52.0 mV	3.32 m	250.00 ml/min
19/01/2022 14:45	11:00	7.10 pH	9.36 °C	818.63 µS/cm	0.56 mg/L	-52.7 mV	3.32 m	250.00 ml/min
19/01/2022 14:46	12:00	7.09 pH	9.38 °C	819.26 μS/cm	0.52 mg/L	-53.7 mV	3.32 m	250.00 ml/min

19/01/2022	13:00	13:00 7.09 pH	pH 9.43 °C	820.05 µS/cm	0.48 mg/L	-54.4 mV	3.32 m	250.00 ml/min	
14:47				620.05 μ3/011	0.46 Hig/L	-54.4 1117			
19/01/2022	14:00	7.10 pH	9.47 °C	820.45 µS/cm	0.48 mg/L	-55.9 mV	3.32 m	250.00 ml/min	
14:48	14:00	7.10 рн	7.10 μπ	9.47 C	9.47 C 620.43 µ3/cm	0.46 mg/L	-55.9 1117	3.32 111	250.00 111/111111
19/01/2022	15:00	7.10 pH	9.48 °C	820.72 µS/cm	0.47 mg/L	-56.4 mV	3.32 m	250.00 ml/min	
14:49	15:00	7.10 μπ	9.40 C	620.72 μ3/6111	0.47 mg/L	-50.4 1117	3.32 111	250.00 111/111111	

Sample ID:	Description:
BH654	

APPENDIX 4 - GROUNDWATER SAMPLING LOW FLOW REPORT (ROUND 2)

Test Date / Time: 24/03/2022 10:06:34

Project: Mobuoy **Operator Name:** JB

Location Name: BH121
Well Diameter: 50 cm
Casing Type: Plastic
Screen Length: 2 m
Top of Screen: 3 m
Total Depth: 5.43 m

Initial Depth to Water: 2.05 m

Pump Type: Peristaltic Tubing Type: HDPE

Pump Intake From TOC: 4 m Estimated Total Volume Pumped:

4200 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min Final Draw Down: 2.05 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.3	+/- 1	+/- 20	+/- 5	
24/03/2022 10:06	00:00	6.50 pH	10.21 °C	369.75 μS/cm	7.24 mg/L		132.9 mV	205.00 cm	350.00 ml/min
24/03/2022 10:07	01:00	6.33 pH	10.39 °C	370.49 μS/cm	5.29 mg/L		138.7 mV	205.00 cm	350.00 ml/min
24/03/2022 10:08	02:00	6.23 pH	10.29 °C	370.69 μS/cm	4.01 mg/L		141.2 mV	205.00 cm	350.00 ml/min
24/03/2022 10:09	03:00	6.18 pH	10.21 °C	370.71 μS/cm	3.12 mg/L		145.3 mV	205.00 cm	350.00 ml/min
24/03/2022 10:10	04:00	6.15 pH	10.18 °C	372.27 μS/cm	2.51 mg/L		147.1 mV	205.00 cm	350.00 ml/min
24/03/2022 10:11	05:00	6.13 pH	10.12 °C	372.36 μS/cm	2.04 mg/L		149.2 mV	205.00 cm	350.00 ml/min
24/03/2022 10:12	06:00	6.11 pH	10.11 °C	372.17 μS/cm	1.69 mg/L		151.1 mV	205.00 cm	350.00 ml/min
24/03/2022 10:13	07:00	6.09 pH	10.10 °C	373.07 μS/cm	1.44 mg/L		152.6 mV	205.00 cm	350.00 ml/min
24/03/2022 10:14	08:00	6.09 pH	10.08 °C	372.56 μS/cm	1.24 mg/L		154.0 mV	205.00 cm	350.00 ml/min
24/03/2022 10:15	09:00	6.08 pH	10.07 °C	373.00 μS/cm	1.08 mg/L		155.4 mV	205.00 cm	350.00 ml/min
24/03/2022 10:16	10:00	6.07 pH	10.06 °C	372.95 μS/cm	0.96 mg/L		156.7 mV	205.00 cm	350.00 ml/min
24/03/2022 10:17	11:00	6.06 pH	10.07 °C	373.14 μS/cm	0.86 mg/L		158.2 mV	205.00 cm	350.00 ml/min
24/03/2022 10:18	12:00	6.05 pH	10.07 °C	373.54 μS/cm	0.78 mg/L		159.0 mV	205.00 cm	350.00 ml/min

Sample ID:	Description:
GW	

Test Date / Time: 28/03/2022 10:23:04

Project: Mobuoy **Operator Name:** JC

Location Name: BH201
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 1 m
Top of Screen: 6.5 m
Total Depth: 8.46 m

Initial Depth to Water: 3.31 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 7 m Estimated Total Volume Pumped:

3000 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.32 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
28/03/2022 10:23	00:00	6.94 pH	9.96 °C	2,846.2 μS/cm	5.98 mg/L	34.6 mV	3.31 m	250.00 ml/min
28/03/2022 10:24	01:00	6.97 pH	9.73 °C	2,865.6 μS/cm	4.81 mg/L	23.9 mV	3.31 m	250.00 ml/min
28/03/2022 10:25	02:00	6.98 pH	9.69 °C	2,872.3 μS/cm	3.86 mg/L	14.9 mV	3.31 m	250.00 ml/min
28/03/2022 10:26	03:00	6.99 pH	9.61 °C	2,878.3 μS/cm	3.13 mg/L	7.6 mV	3.31 m	250.00 ml/min
28/03/2022 10:27	04:00	7.00 pH	9.54 °C	2,881.6 μS/cm	2.61 mg/L	1.8 mV	3.31 m	250.00 ml/min
28/03/2022 10:28	05:00	7.00 pH	9.53 °C	2,887.4 μS/cm	2.19 mg/L	-3.4 mV	3.31 m	250.00 ml/min
28/03/2022 10:29	06:00	7.01 pH	9.53 °C	2,893.5 μS/cm	1.87 mg/L	-8.0 mV	3.31 m	250.00 ml/min
28/03/2022 10:30	07:00	7.01 pH	9.52 °C	2,894.7 μS/cm	1.64 mg/L	-11.8 mV	3.31 m	250.00 ml/min
28/03/2022 10:31	08:00	7.02 pH	9.52 °C	2,896.9 μS/cm	1.47 mg/L	-15.4 mV	3.31 m	250.00 ml/min
28/03/2022 10:32	09:00	7.02 pH	9.51 °C	2,901.6 μS/cm	1.38 mg/L	-18.5 mV	3.31 m	250.00 ml/min
28/03/2022 10:33	10:00	7.02 pH	9.50 °C	2,908.0 μS/cm	1.32 mg/L	-21.4 mV	3.31 m	250.00 ml/min
28/03/2022 10:34	11:00	7.02 pH	9.46 °C	2,910.8 μS/cm	1.22 mg/L	-24.1 mV	3.31 m	250.00 ml/min
28/03/2022 10:35	12:00	7.03 pH	9.48 °C	2,911.8 μS/cm	1.17 mg/L	-26.5 mV	3.31 m	250.00 ml/min

Sample ID:	Description:
BH201	

Test Date / Time: 22/03/2022 13:24:26

Project: Mobuoy Operator Name: JB

Location Name: BH206
Well Diameter: 50 cm
Casing Type: Plastic
Screen Length: 3 m
Top of Screen: 4 m
Total Depth: 7.15 m

Initial Depth to Water: 5 m

Pump Type: Peristaltic Tubing Type: HDPE

Pump Intake From TOC: 6 m Estimated Total Volume Pumped:

6300 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min Final Draw Down: 5.02 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.3	+/- 1	+/- 20	+/- 5	
22/03/2022 13:24	00:00	6.67 pH	17.05 °C	0.44 μS/cm	8.73 mg/L		108.9 mV	500.00 cm	350.00 ml/min
22/03/2022 13:25	01:00	6.80 pH	14.84 °C	8.45 µS/cm	6.40 mg/L		123.4 mV	500.00 cm	350.00 ml/min
22/03/2022 13:26	02:00	6.81 pH	14.05 °C	13.16 µS/cm	4.83 mg/L		118.0 mV	500.00 cm	350.00 ml/min
22/03/2022 13:27	03:00	6.81 pH	13.50 °C	10.16 μS/cm	3.98 mg/L		109.3 mV	500.00 cm	350.00 ml/min
22/03/2022 13:28	04:00	6.80 pH	13.27 °C	6.93 µS/cm	3.34 mg/L		99.7 mV	500.00 cm	350.00 ml/min
22/03/2022 13:29	05:00	6.83 pH	13.01 °C	17.23 µS/cm	3.29 mg/L		90.2 mV	500.00 cm	350.00 ml/min
22/03/2022 13:30	06:00	6.80 pH	12.77 °C	8.39 µS/cm	2.89 mg/L		81.4 mV	500.00 cm	350.00 ml/min
22/03/2022 13:31	07:00	6.81 pH	12.57 °C	14.36 µS/cm	2.75 mg/L		74.0 mV	500.00 cm	350.00 ml/min
22/03/2022 13:32	08:00	6.84 pH	12.41 °C	24.44 µS/cm	2.71 mg/L		67.2 mV	500.00 cm	350.00 ml/min
22/03/2022 13:33	09:00	6.86 pH	12.43 °C	11.05 µS/cm	2.65 mg/L		61.4 mV	500.00 cm	350.00 ml/min
22/03/2022 13:34	10:00	6.87 pH	12.23 °C	11.81 µS/cm	2.68 mg/L		56.1 mV	500.00 cm	350.00 ml/min
22/03/2022 13:35	11:00	6.86 pH	12.21 °C	11.31 µS/cm	2.66 mg/L		51.7 mV	500.00 cm	350.00 ml/min
22/03/2022 13:36	12:00	6.88 pH	12.14 °C	15.53 μS/cm	2.60 mg/L		47.2 mV	500.00 cm	350.00 ml/min
22/03/2022 13:37	13:00	6.88 pH	12.14 °C	10.46 μS/cm	2.43 mg/L		43.7 mV	500.00 cm	350.00 ml/min
22/03/2022 13:38	14:00	6.89 pH	12.15 °C	10.50 μS/cm	2.30 mg/L		40.8 mV	500.00 cm	350.00 ml/min

22/03/2022	15:00	6.89 pH	12.09 °C	13.76 µS/cm	2.21 mg/L	37.3 mV	500.00 cm	350.00 ml/min
13:39					5			
22/03/2022	40.00	0.00 -11	40.44.00	0.74 0/	0.07//	04.4>/	F00 00	050 00
13:40	16:00	6.88 pH	12.11 °C	9.74 μS/cm	2.07 mg/L	34.4 mV	500.00 cm	350.00 ml/min
22/03/2022	17:00	6.87 pH	12.05 °C	11.80 µS/cm	1.92 mg/L	31.1 mV	500.00 cm	350.00 ml/min
13:41	17.00	0.07 pm	12.05	11.00 μ3/6/11	1.92 Hig/L	31.1 111	300.00 CIII	330.00 111/11111
22/03/2022	18:00	6.85 pH	12.10 °C	10.58 µS/cm	1.83 mg/L	27.7 mV	500.00 cm	350.00 ml/min
13:42	16.00	6.65 рп	12.10 C	10.56 μ3/cm	1.63 Hig/L	27.7 1110	500.00 cm	350.00 111/111111

Sample ID:	Description:
GW	

Test Date / Time: 24/03/2022 10:39:22

Project: Mobuoy **Operator Name:** JB

Location Name: BH208
Well Diameter: 50 cm
Casing Type: Plastic
Screen Length: 1.9 m
Top of Screen: 0.7 m
Total Depth: 3.26 m

Initial Depth to Water: 1.93 m

Pump Type: Peristaltic Tubing Type: HDPE

Pump Intake From TOC: 2.5 m Estimated Total Volume Pumped:

4200 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min Final Draw Down: 1.99 m **Instrument Used: Aqua TROLL 500**

Serial Number: 791283

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.3	+/- 1	+/- 20	+/- 5	
24/03/2022 10:39	00:00	6.10 pH	10.63 °C	422.90 μS/cm	7.66 mg/L		195.4 mV	193.00 cm	350.00 ml/min
24/03/2022 10:40	01:00	6.04 pH	10.70 °C	425.83 μS/cm	5.40 mg/L		198.7 mV	193.00 cm	350.00 ml/min
24/03/2022 10:41	02:00	6.02 pH	10.73 °C	426.47 μS/cm	3.99 mg/L		199.7 mV	193.00 cm	350.00 ml/min
24/03/2022 10:42	03:00	6.00 pH	10.70 °C	426.66 μS/cm	2.96 mg/L		200.2 mV	193.00 cm	350.00 ml/min
24/03/2022 10:43	04:00	5.99 pH	10.70 °C	426.92 μS/cm	2.26 mg/L		199.6 mV	193.00 cm	350.00 ml/min
24/03/2022 10:44	05:00	5.99 pH	10.66 °C	426.98 μS/cm	1.79 mg/L		198.9 mV	193.00 cm	350.00 ml/min
24/03/2022 10:45	06:00	5.98 pH	10.67 °C	428.25 μS/cm	1.45 mg/L		197.9 mV	193.00 cm	350.00 ml/min
24/03/2022 10:46	07:00	5.97 pH	10.68 °C	430.03 μS/cm	1.20 mg/L		197.3 mV	193.00 cm	350.00 ml/min
24/03/2022 10:47	08:00	5.97 pH	10.70 °C	429.92 μS/cm	1.02 mg/L		196.2 mV	193.00 cm	350.00 ml/min
24/03/2022 10:48	09:00	5.97 pH	10.72 °C	431.35 μS/cm	0.88 mg/L		195.7 mV	193.00 cm	350.00 ml/min
24/03/2022 10:49	10:00	5.97 pH	10.69 °C	432.69 μS/cm	0.76 mg/L		195.0 mV	193.00 cm	350.00 ml/min
24/03/2022 10:50	11:00	5.96 pH	10.69 °C	433.12 μS/cm	0.68 mg/L		194.1 mV	193.00 cm	350.00 ml/min
24/03/2022 10:51	12:00	5.96 pH	10.70 °C	433.02 μS/cm	0.61 mg/L		193.6 mV	193.00 cm	350.00 ml/min

Sample ID:	Description:
GW	

Test Date / Time: 23/03/2022 11:43:39

Project: Mobuoy **Operator Name:** JB

Location Name: BH214
Well Diameter: 50 cm
Casing Type: Plastic
Screen Length: 8.4 m
Top of Screen: 1 m
Total Depth: 9.11 m

Initial Depth to Water: 6.85 m

Pump Type: Peristaltic Tubing Type: HDPE

Pump Intake From TOC: 8 m Estimated Total Volume Pumped:

3500 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min Final Draw Down: 6.85 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.3	+/- 1	+/- 20	+/- 5	
23/03/2022 11:43	00:00	6.97 pH	15.06 °C	11,345 μS/cm	5.89 mg/L		65.7 mV	685.00 cm	350.00 ml/min
23/03/2022 11:44	01:00	6.99 pH	14.80 °C	11,428 µS/cm	3.75 mg/L		28.3 mV	685.00 cm	350.00 ml/min
23/03/2022 11:45	02:00	6.99 pH	14.67 °C	11,468 µS/cm	2.43 mg/L		-6.2 mV	685.00 cm	350.00 ml/min
23/03/2022 11:46	03:00	7.00 pH	14.53 °C	11,473 μS/cm	1.66 mg/L		-27.9 mV	685.00 cm	350.00 ml/min
23/03/2022 11:47	04:00	7.00 pH	14.34 °C	11,508 µS/cm	1.21 mg/L		-41.4 mV	685.00 cm	350.00 ml/min
23/03/2022 11:48	05:00	7.00 pH	14.29 °C	11,504 µS/cm	0.90 mg/L		-51.3 mV	685.00 cm	350.00 ml/min
23/03/2022 11:49	06:00	7.01 pH	14.26 °C	11,496 µS/cm	0.69 mg/L		-58.7 mV	685.00 cm	350.00 ml/min
23/03/2022 11:50	07:00	7.01 pH	14.32 °C	11,472 μS/cm	0.54 mg/L		-64.0 mV	685.00 cm	350.00 ml/min
23/03/2022 11:51	08:00	7.01 pH	14.35 °C	11,493 µS/cm	0.43 mg/L		-68.5 mV	685.00 cm	350.00 ml/min
23/03/2022 11:52	09:00	7.01 pH	14.39 °C	11,496 µS/cm	0.36 mg/L		-72.1 mV	685.00 cm	350.00 ml/min
23/03/2022 11:53	10:00	7.01 pH	14.32 °C	11,481 µS/cm	0.32 mg/L		-75.2 mV	685.00 cm	350.00 ml/min

Sample ID:	Description:
GW	

Test Date / Time: 23/03/2022 10:51:25

Project: Mobuoy Operator Name: JB

Location Name: BH215
Well Diameter: 50 cm
Casing Type: Plastic
Screen Length: 10.5 m
Top of Screen: 1 m

Total Depth: 9.3 m

Initial Depth to Water: 2.08 m

Pump Type: Peristaltic Tubing Type: HDPE

Pump Intake From TOC: 5.5 m Estimated Total Volume Pumped:

3150 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min Final Draw Down: 2.96 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.3	+/- 1	+/- 20	+/- 5	
23/03/2022 10:51	00:00	6.67 pH	12.36 °C	4,261.3 μS/cm	3.83 mg/L		88.8 mV	208.00 cm	350.00 ml/min
23/03/2022 10:52	01:00	6.69 pH	12.44 °C	4,272.7 μS/cm	2.55 mg/L		55.6 mV	208.00 cm	350.00 ml/min
23/03/2022 10:53	02:00	6.70 pH	12.46 °C	4,260.2 μS/cm	1.82 mg/L		30.7 mV	208.00 cm	350.00 ml/min
23/03/2022 10:54	03:00	6.70 pH	12.21 °C	4,269.5 μS/cm	1.36 mg/L		12.3 mV	208.00 cm	350.00 ml/min
23/03/2022 10:55	04:00	6.70 pH	12.11 °C	4,267.9 μS/cm	1.05 mg/L		-0.3 mV	208.00 cm	350.00 ml/min
23/03/2022 10:56	05:00	6.70 pH	12.07 °C	4,260.2 μS/cm	0.84 mg/L		-9.2 mV	208.00 cm	350.00 ml/min
23/03/2022 10:57	06:00	6.70 pH	11.97 °C	4,267.1 μS/cm	0.68 mg/L		-16.4 mV	208.00 cm	350.00 ml/min
23/03/2022 10:58	07:00	6.70 pH	11.91 °C	4,259.6 μS/cm	0.55 mg/L		-22.2 mV	208.00 cm	350.00 ml/min
23/03/2022 10:59	08:00	6.71 pH	11.91 °C	4,262.9 μS/cm	0.47 mg/L		-26.6 mV	208.00 cm	350.00 ml/min
23/03/2022 11:00	09:00	6.71 pH	11.98 °C	4,256.5 μS/cm	0.42 mg/L		-30.5 mV	208.00 cm	350.00 ml/min

Sample ID:	Description:
GW	

Test Date / Time: 30/03/2022 12:54:55

Project: Mobuoy **Operator Name:** JC

Location Name: BH301 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 9 m Top of Screen: 3 m Total Depth: 12.34 m

Initial Depth to Water: 7.88 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 9 m Estimated Total Volume Pumped:

3750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 7.81 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
30/03/2022 12:54	00:00	6.67 pH	11.12 °C	903.69 μS/cm	6.19 mg/L	64.7 mV	7.88 m	250.00 ml/min
30/03/2022 12:55	01:00	6.67 pH	11.14 °C	902.10 μS/cm	5.63 mg/L	64.0 mV	7.88 m	250.00 ml/min
30/03/2022 12:56	02:00	6.67 pH	11.16 °C	904.67 μS/cm	5.24 mg/L	63.0 mV	7.88 m	250.00 ml/min
30/03/2022 12:57	03:00	6.66 pH	11.15 °C	903.30 μS/cm	4.85 mg/L	62.0 mV	7.88 m	250.00 ml/min
30/03/2022 12:58	04:00	6.66 pH	11.12 °C	900.99 μS/cm	4.53 mg/L	61.1 mV	7.88 m	250.00 ml/min
30/03/2022 12:59	05:00	6.66 pH	11.13 °C	902.36 μS/cm	4.27 mg/L	60.1 mV	7.88 m	250.00 ml/min
30/03/2022 13:00	06:00	6.66 pH	11.05 °C	902.43 μS/cm	4.08 mg/L	59.8 mV	7.88 m	250.00 ml/min
30/03/2022 13:01	07:00	6.66 pH	11.07 °C	900.75 μS/cm	3.92 mg/L	59.5 mV	7.88 m	250.00 ml/min
30/03/2022 13:02	08:00	6.66 pH	11.02 °C	900.95 μS/cm	3.76 mg/L	59.2 mV	7.88 m	250.00 ml/min
30/03/2022 13:03	09:00	6.66 pH	10.94 °C	897.24 μS/cm	3.64 mg/L	58.6 mV	7.88 m	250.00 ml/min
30/03/2022 13:04	10:00	6.65 pH	10.81 °C	899.63 μS/cm	3.53 mg/L	57.3 mV	7.88 m	250.00 ml/min
30/03/2022 13:05	11:00	6.65 pH	10.86 °C	899.97 μS/cm	3.42 mg/L	57.4 mV	7.88 m	250.00 ml/min
30/03/2022 13:06	12:00	6.64 pH	10.84 °C	899.59 μS/cm	3.32 mg/L	57.0 mV	7.88 m	250.00 ml/min

30/03/2022	13:00	6.64 pH	10.78 °C	897.64 µS/cm	3.25 mg/L	55.9 mV	7.88 m	250.00 ml/min	
13:07	13:00	0.64 рп	10.76 C	097.04 μ3/cm	3.25 Hg/L	55.9 1117	7.00 111	250.00 111/111111	
30/03/2022	14:00	6.64 pH	10.78 °C	897.98 µS/cm	3.16 mg/L	54.9 mV	7.88 m	250.00 ml/min	
13:08	14.00	0.64 рп	10.76 C	ο97.90 μ3/cm	3.16 mg/L	54.9 1117	7.00 111	250.00 1111/111111	
30/03/2022	15:00	6.64 pH	10.77 °C	897.32 µS/cm	3.09 mg/L	53.9 mV	7.88 m	250.00 ml/min	
13:09	15.00	0.04 μπ	10.77	097.32 μ3/011	3.09 HIg/L	55.91110	7.00 111	230.00 1111/111111	

Sample ID:	Description:
BH301	

Test Date / Time: 22/03/2022 08:57:34

Project: Mobuoy **Operator Name:** JB

Location Name: BH401
Well Diameter: 50 cm
Casing Type: Plastic
Screen Length: 2 m
Top of Screen: 7.9 m
Total Depth: 9.56 m

Initial Depth to Water: 5.07 m

Pump Type: Peristaltic Tubing Type: HDPE

Pump Intake From TOC: 8.5 m Estimated Total Volume Pumped:

1400 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min Final Draw Down: 5.08 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.3	+/- 1	+/- 20	+/- 5	
22/03/2022	00:00	6.24 pH	11.20 °C	1,291.2	0.39 mg/L		14.6 mV	507.00 cm	350.00 ml/min
08:57 22/03/2022	21.22			μS/cm 1,288.3	0.07 ()				
08:58	01:00	6.23 pH	11.20 °C	μS/cm	0.37 mg/L		13.6 mV	507.00 cm	350.00 ml/min
22/03/2022	02:00	6.22 pH	11.25 °C	1,294.9	0.34 mg/L		11.1 mV	507.00 cm	350.00 ml/min
08:59				μS/cm 1,298.4					
09:00	03:00	6.21 pH	11.28 °C	μS/cm	0.31 mg/L		9.0 mV	507.00 cm	350.00 ml/min
22/03/2022	04:00	6.21 pH	11.32 °C	1,303.3	0.29 mg/L		7.5 mV	507.00 cm	350.00 ml/min
09:01		0.21 pm	11.52 0	μS/cm	0.20 mg/L		7.5111		

Samples

Sample ID:	Description:
GW	

Test Date / Time: 22/03/2022 10:01:51

Project: Mobuoy Operator Name: JB

Location Name: BH402S
Well Diameter: 50 cm
Casing Type: Plastic
Screen Length: 2 m
Top of Screen: 2.5 m
Total Depth: 4.55 m

Initial Depth to Water: 3.16 m

Pump Type: Peristaltic Tubing Type: HDPE

Pump Intake From TOC: 3.5 m Estimated Total Volume Pumped:

3850 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min Final Draw Down: 4.13 m **Instrument Used: Aqua TROLL 500**

Serial Number: 791283

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.3	+/- 1	+/- 20	+/- 5	
22/03/2022 10:01	00:00	6.39 pH	13.08 °C	1,274.0 μS/cm	4.42 mg/L		80.1 mV	316.00 cm	350.00 ml/min
22/03/2022 10:02	01:00	6.42 pH	12.25 °C	1,604.0 μS/cm	2.88 mg/L		72.8 mV	316.00 cm	350.00 ml/min
22/03/2022 10:03	02:00	6.43 pH	11.91 °C	1,601.5 μS/cm	1.82 mg/L		61.9 mV	316.00 cm	350.00 ml/min
22/03/2022 10:04	03:00	6.43 pH	11.59 °C	1,403.0 μS/cm	1.25 mg/L		52.5 mV	316.00 cm	350.00 ml/min
22/03/2022 10:05	04:00	6.44 pH	11.36 °C	1,411.5 μS/cm	0.96 mg/L		44.1 mV	316.00 cm	350.00 ml/min
22/03/2022 10:06	05:00	6.44 pH	11.37 °C	1,416.3 μS/cm	0.74 mg/L		36.9 mV	316.00 cm	350.00 ml/min
22/03/2022 10:07	06:00	6.45 pH	11.50 °C	1,407.8 μS/cm	0.58 mg/L		30.7 mV	316.00 cm	350.00 ml/min
22/03/2022 10:08	07:00	6.45 pH	11.58 °C	1,609.4 μS/cm	0.50 mg/L		25.0 mV	316.00 cm	350.00 ml/min
22/03/2022 10:09	08:00	6.44 pH	11.63 °C	1,609.9 μS/cm	0.46 mg/L		20.0 mV	316.00 cm	350.00 ml/min
22/03/2022 10:10	09:00	6.44 pH	11.56 °C	1,610.8 μS/cm	0.44 mg/L		15.6 mV	316.00 cm	350.00 ml/min
22/03/2022 10:11	10:00	6.45 pH	11.57 °C	1,607.7 μS/cm	0.42 mg/L		12.0 mV	316.00 cm	350.00 ml/min
22/03/2022 10:12	11:00	6.45 pH	11.57 °C	1,608.7 μS/cm	0.38 mg/L		8.7 mV	316.00 cm	350.00 ml/min

Sample ID:	Description:
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-

Test Date / Time: 22/03/2022 10:27:57

Project: Mobuoy Operator Name: JB

Location Name: BH402D Well Diameter: 50 cm Casing Type: Plastic Screen Length: 1.5 m Top of Screen: 8.5 m Total Depth: 10.4 m

Initial Depth to Water: 4.46 m

Pump Type: Peristaltic Tubing Type: HDPE

Pump Intake From TOC: 8 m Estimated Total Volume Pumped:

5250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min Final Draw Down: 4.47 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.3	+/- 1	+/- 20	+/- 5	
22/03/2022 10:27	00:00	6.43 pH	14.10 °C	1,592.8 μS/cm	0.44 mg/L		-18.8 mV	446.00 cm	350.00 ml/min
22/03/2022 10:28	01:00	6.47 pH	12.29 °C	1,628.9 μS/cm	0.77 mg/L		-17.5 mV	446.00 cm	350.00 ml/min
22/03/2022 10:29	02:00	6.47 pH	11.97 °C	1,643.3 μS/cm	0.68 mg/L		-18.7 mV	446.00 cm	350.00 ml/min
22/03/2022 10:30	03:00	6.47 pH	11.83 °C	1,653.9 μS/cm	0.58 mg/L		-18.2 mV	446.00 cm	350.00 ml/min
22/03/2022 10:31	04:00	6.47 pH	11.75 °C	1,651.9 μS/cm	0.51 mg/L		-18.0 mV	446.00 cm	350.00 ml/min
22/03/2022 10:32	05:00	6.47 pH	11.82 °C	1,647.4 μS/cm	0.48 mg/L		-17.1 mV	446.00 cm	350.00 ml/min
22/03/2022 10:33	06:00	6.46 pH	11.85 °C	1,647.9 μS/cm	0.45 mg/L		-16.6 mV	446.00 cm	350.00 ml/min
22/03/2022 10:34	07:00	6.46 pH	11.84 °C	1,284.0 μS/cm	0.41 mg/L		-15.7 mV	446.00 cm	350.00 ml/min
22/03/2022 10:35	08:00	6.46 pH	11.83 °C	1,422.5 μS/cm	0.38 mg/L		-15.3 mV	446.00 cm	350.00 ml/min
22/03/2022 10:36	09:00	6.46 pH	11.74 °C	1,424.2 μS/cm	0.39 mg/L		-14.8 mV	446.00 cm	350.00 ml/min
22/03/2022 10:37	10:00	6.46 pH	11.74 °C	1,427.2 μS/cm	0.38 mg/L		-14.4 mV	446.00 cm	350.00 ml/min
22/03/2022 10:38	11:00	6.46 pH	11.70 °C	1,654.5 μS/cm	0.37 mg/L		-13.9 mV	446.00 cm	350.00 ml/min
22/03/2022 10:39	12:00	6.46 pH	11.70 °C	1,648.3 μS/cm	0.36 mg/L		-13.5 mV	446.00 cm	350.00 ml/min
22/03/2022 10:40	13:00	6.46 pH	11.71 °C	1,648.3 μS/cm	0.34 mg/L		-13.0 mV	446.00 cm	350.00 ml/min
22/03/2022 10:41	14:00	6.46 pH	11.70 °C	1,652.7 μS/cm	0.33 mg/L		-12.6 mV	446.00 cm	350.00 ml/min

22/03/2022	45.00	0.40 -11	44.00.00	1,648.5	0.22/	40.0 \/	440.00	250.001/
10:42	15:00	6.46 pH	11.69 °C	μS/cm	0.32 mg/L	-12.3 mV	446.00 cm	350.00 ml/min

Sample ID:	Description:
GW	

Test Date / Time: 22/03/2022 15:11:14

Project: Mobuoy Operator Name: JB

Location Name: BH404
Well Diameter: 50 cm
Casing Type: Plastic
Screen Length: 10 m
Top of Screen: 6 m
Total Depth: 15.25 m

Initial Depth to Water: 6.35 m

Pump Type: Peristaltic Tubing Type: HDPE

Pump Intake From TOC: 10.5 m Estimated Total Volume Pumped:

5250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min Final Draw Down: 6.38 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.3	+/- 1	+/- 20	+/- 5	
22/03/2022 15:11	00:00	6.73 pH	13.88 °C	1,376.2 μS/cm	4.88 mg/L		82.1 mV	635.00 cm	350.00 ml/min
22/03/2022 15:12	01:00	6.72 pH	13.47 °C	1,212.4 μS/cm	3.47 mg/L		81.5 mV	635.00 cm	350.00 ml/min
22/03/2022 15:13	02:00	6.71 pH	13.36 °C	1,264.0 μS/cm	2.64 mg/L		76.5 mV	635.00 cm	350.00 ml/min
22/03/2022 15:14	03:00	6.71 pH	13.18 °C	1,272.8 μS/cm	2.13 mg/L		69.9 mV	635.00 cm	350.00 ml/min
22/03/2022 15:15	04:00	6.71 pH	13.11 °C	1,279.2 μS/cm	1.79 mg/L		62.9 mV	635.00 cm	350.00 ml/min
22/03/2022 15:16	05:00	6.71 pH	12.99 °C	1,600.4 μS/cm	1.54 mg/L		56.4 mV	635.00 cm	350.00 ml/min
22/03/2022 15:17	06:00	6.70 pH	12.94 °C	1,550.2 μS/cm	1.34 mg/L		50.1 mV	635.00 cm	350.00 ml/min
22/03/2022 15:18	07:00	6.70 pH	12.90 °C	1,512.1 μS/cm	1.26 mg/L		44.8 mV	635.00 cm	350.00 ml/min
22/03/2022 15:19	08:00	6.69 pH	12.89 °C	1,473.0 μS/cm	1.14 mg/L		40.0 mV	635.00 cm	350.00 ml/min
22/03/2022 15:20	09:00	6.69 pH	12.87 °C	1,414.1 μS/cm	1.04 mg/L		35.7 mV	635.00 cm	350.00 ml/min
22/03/2022 15:21	10:00	6.68 pH	12.86 °C	1,373.7 μS/cm	0.96 mg/L		31.7 mV	635.00 cm	350.00 ml/min
22/03/2022 15:22	11:00	6.69 pH	12.83 °C	1,356.1 μS/cm	0.90 mg/L		28.3 mV	635.00 cm	350.00 ml/min
22/03/2022 15:23	12:00	6.69 pH	12.80 °C	1,329.1 μS/cm	0.85 mg/L		25.1 mV	635.00 cm	350.00 ml/min
22/03/2022 15:24	13:00	6.69 pH	12.76 °C	1,341.6 μS/cm	0.80 mg/L		22.0 mV	635.00 cm	350.00 ml/min
22/03/2022 15:25	14:00	6.69 pH	12.73 °C	1,356.8 μS/cm	0.77 mg/L		19.4 mV	635.00 cm	350.00 ml/min

22/03/2022	45.00	0.00 -11	40.70.00	1,472.3	0.77/1	47.0\/	625.00	250.001/
15:26	15:00	6.69 pH	12.76 °C	μS/cm	0.77 mg/L	17.0 mV	635.00 cm	350.00 ml/min

Sample ID:	Description:
GW	

Test Date / Time: 22/03/2022 11:37:04

Project: Mobuoy Operator Name: JB

Location Name: BH409
Well Diameter: 50 cm
Casing Type: Plastic
Screen Length: 1 m
Top of Screen: 7.5 m
Total Depth: 8.85 m

Initial Depth to Water: 5.24 m

Pump Type: Peristaltic Tubing Type: HDPE

Pump Intake From TOC: 7 m Estimated Total Volume Pumped:

5950 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min Final Draw Down: 5.24 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 0.2 +/- 3 %		+/- 1	+/- 20	+/- 5	
22/03/2022 11:37	00:00	6.55 pH	13.64 °C	1,841.5 μS/cm	6.45 mg/L		31.5 mV	524.00 cm	350.00 ml/min
22/03/2022 11:38	01:00	6.45 pH	12.65 °C	1,874.4 μS/cm	4.24 mg/L		43.5 mV	524.00 cm	350.00 ml/min
22/03/2022 11:39	02:00	6.42 pH	12.34 °C	1,887.1 μS/cm	3.03 mg/L		46.5 mV	524.00 cm	350.00 ml/min
22/03/2022 11:40	03:00	6.42 pH	12.01 °C	1,889.9 μS/cm	2.33 mg/L		47.2 mV	524.00 cm	350.00 ml/min
22/03/2022 11:41	04:00	6.41 pH	12.07 °C	1,896.1 μS/cm	1.95 mg/L		46.1 mV	524.00 cm	350.00 ml/min
22/03/2022 11:42	05:00	6.41 pH	12.05 °C	1,893.0 μS/cm	1.70 mg/L		45.0 mV	524.00 cm	350.00 ml/min
22/03/2022 11:43	06:00	6.41 pH	12.08 °C	1,897.0 μS/cm	1.46 mg/L		43.1 mV	524.00 cm	350.00 ml/min
22/03/2022 11:44	07:00	6.41 pH	12.04 °C	1,891.4 μS/cm	1.30 mg/L		41.1 mV	524.00 cm	350.00 ml/min
22/03/2022 11:45	08:00	6.41 pH	11.92 °C	1,888.3 μS/cm	1.20 mg/L		39.0 mV	524.00 cm	350.00 ml/min
22/03/2022 11:46	09:00	6.41 pH	11.79 °C	1,888.9 μS/cm	1.18 mg/L		36.4 mV	524.00 cm	350.00 ml/min
22/03/2022 11:47	10:00	6.41 pH	11.73 °C	1,892.9 μS/cm	1.32 mg/L		34.1 mV	524.00 cm	350.00 ml/min
22/03/2022 11:48	11:00	6.41 pH	11.70 °C	1,895.9 μS/cm	1.52 mg/L		32.1 mV	524.00 cm	350.00 ml/min
22/03/2022 11:49	12:00	6.41 pH	11.63 °C	1,905.7 μS/cm	1.26 mg/L		30.2 mV	524.00 cm	350.00 ml/min
22/03/2022 11:50	13:00	6.40 pH	11.61 °C	1,932.3 μS/cm	0.95 mg/L		29.0 mV	524.00 cm	350.00 ml/min
22/03/2022 11:51	14:00	6.39 pH	11.55 °C	1,958.3 μS/cm	0.72 mg/L		27.7 mV	524.00 cm	350.00 ml/min

22/03/2022 11:52	15:00	6.39 pH	11.58 °C	1,976.7 μS/cm	0.57 mg/L	26.4 mV	524.00 cm	350.00 ml/min
22/03/2022 11:53	16:00	6.39 pH	11.54 °C	1,979.6 μS/cm	0.49 mg/L	25.1 mV	524.00 cm	350.00 ml/min
22/03/2022 11:54	17:00	6.38 pH	11.54 °C	1,986.0 μS/cm	0.44 mg/L	23.8 mV	524.00 cm	350.00 ml/min

Sample ID:	Description:
GW	

Test Date / Time: 22/03/2022 11:03:39

Project: Mobuoy **Operator Name:** JB

Location Name: BH410
Well Diameter: 50 cm
Casing Type: Plastic
Screen Length: 1.5 m
Top of Screen: 7.8 m
Total Depth: 10.26 m

Initial Depth to Water: 5.17 m

Pump Type: Peristaltic Tubing Type: HDPE

Pump Intake From TOC: 8 m Estimated Total Volume Pumped:

3150 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min Final Draw Down: 5.17 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.3	+/- 1	+/- 20	+/- 5	
22/03/2022 11:03	00:00	6.48 pH	11.96 °C	2,042.6 μS/cm	4.43 mg/L		11.1 mV	517.00 cm	350.00 ml/min
22/03/2022 11:04	01:00	6.48 pH	11.97 °C	2,023.0 μS/cm	2.77 mg/L		9.3 mV	517.00 cm	350.00 ml/min
22/03/2022 11:05	02:00	6.48 pH	11.85 °C	2,027.3 μS/cm	1.90 mg/L		7.3 mV	517.00 cm	350.00 ml/min
22/03/2022 11:06	03:00	6.48 pH	11.80 °C	2,014.6 μS/cm	1.46 mg/L		5.1 mV	517.00 cm	350.00 ml/min
22/03/2022 11:07	04:00	6.48 pH	11.74 °C	2,007.5 μS/cm	1.19 mg/L		3.1 mV	517.00 cm	350.00 ml/min
22/03/2022 11:08	05:00	6.48 pH	11.72 °C	2,262.2 μS/cm	1.02 mg/L		1.3 mV	517.00 cm	350.00 ml/min
22/03/2022 11:09	06:00	6.48 pH	11.71 °C	2,247.8 μS/cm	0.94 mg/L		0.0 mV	517.00 cm	350.00 ml/min
22/03/2022 11:10	07:00	6.48 pH	11.64 °C	2,241.8 μS/cm	0.90 mg/L		-1.4 mV	517.00 cm	350.00 ml/min
22/03/2022 11:11	08:00	6.49 pH	11.64 °C	2,246.6 µS/cm	0.87 mg/L		-2.7 mV	517.00 cm	350.00 ml/min
22/03/2022 11:12	09:00	6.49 pH	11.68 °C	2,238.7 μS/cm	0.88 mg/L		-3.5 mV	517.00 cm	350.00 ml/min

Sample ID:	Description:
GW	

Test Date / Time: 23/03/2022 09:26:38

Project: Mobuoy Operator Name: JB

Location Name: BH411
Well Diameter: 50 cm
Casing Type: Plastic
Screen Length: 3.3 m
Top of Screen: 3 m
Total Depth: 6.99 m

Initial Depth to Water: 3.19 m

Pump Type: Peristaltic Tubing Type: HDPE

Pump Intake From TOC: 5 m Estimated Total Volume Pumped:

3500 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min Final Draw Down: 3.19 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.3	+/- 1	+/- 20	+/- 5	
23/03/2022 09:26	00:00	7.38 pH	10.10 °C	642.81 μS/cm	5.48 mg/L		-21.5 mV	319.00 cm	350.00 ml/min
23/03/2022 09:27	01:00	7.23 pH	10.17 °C	648.80 μS/cm	3.91 mg/L		-12.2 mV	319.00 cm	350.00 ml/min
23/03/2022 09:28	02:00	7.14 pH	10.19 °C	647.43 μS/cm	2.97 mg/L		-6.0 mV	319.00 cm	350.00 ml/min
23/03/2022 09:29	03:00	7.08 pH	10.22 °C	647.97 μS/cm	2.28 mg/L		-0.6 mV	319.00 cm	350.00 ml/min
23/03/2022 09:30	04:00	7.03 pH	10.24 °C	651.52 μS/cm	1.80 mg/L		3.5 mV	319.00 cm	350.00 ml/min
23/03/2022 09:31	05:00	7.00 pH	10.25 °C	651.41 μS/cm	1.48 mg/L		6.2 mV	319.00 cm	350.00 ml/min
23/03/2022 09:32	06:00	6.99 pH	10.28 °C	650.94 µS/cm	1.24 mg/L		8.7 mV	319.00 cm	350.00 ml/min
23/03/2022 09:33	07:00	6.97 pH	10.31 °C	650.34 μS/cm	1.07 mg/L		11.2 mV	319.00 cm	350.00 ml/min
23/03/2022 09:34	08:00	6.96 pH	10.30 °C	649.08 μS/cm	0.95 mg/L		11.6 mV	319.00 cm	350.00 ml/min
23/03/2022 09:35	09:00	6.95 pH	10.32 °C	649.18 μS/cm	0.84 mg/L		13.3 mV	319.00 cm	350.00 ml/min
23/03/2022 09:36	10:00	6.94 pH	10.34 °C	649.16 μS/cm	0.75 mg/L		15.0 mV	319.00 cm	350.00 ml/min

Sample ID:	Description:
GW	

Test Date / Time: 24/03/2022 09:14:59

Project: Mobuoy Operator Name: JB

Location Name: BH617 Well Diameter: 50 cm Casing Type: Plastic Screen Length: 5 m Top of Screen: 3 m Total Depth: 8.43 m

Initial Depth to Water: 2.75 m

Pump Type: Peristaltic Tubing Type: HDPE

Pump Intake From TOC: 5.5 m Estimated Total Volume Pumped:

4550 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min Final Draw Down: 2.75 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.3	+/- 1	+/- 20	+/- 5	
24/03/2022 09:14	00:00	6.73 pH	10.74 °C	1,124.2 μS/cm	8.84 mg/L		212.5 mV	275.00 cm	350.00 ml/min
24/03/2022 09:15	01:00	6.48 pH	10.76 °C	1,134.6 μS/cm	6.51 mg/L		208.6 mV	275.00 cm	350.00 ml/min
24/03/2022 09:16	02:00	6.39 pH	10.65 °C	1,126.6 μS/cm	4.79 mg/L		200.2 mV	275.00 cm	350.00 ml/min
24/03/2022 09:17	03:00	6.35 pH	10.59 °C	1,113.4 μS/cm	3.63 mg/L		191.0 mV	275.00 cm	350.00 ml/min
24/03/2022 09:18	04:00	6.32 pH	10.58 °C	1,110.5 μS/cm	2.86 mg/L		182.8 mV	275.00 cm	350.00 ml/min
24/03/2022 09:19	05:00	6.30 pH	10.56 °C	1,105.5 μS/cm	2.25 mg/L		174.4 mV	275.00 cm	350.00 ml/min
24/03/2022 09:20	06:00	6.29 pH	10.52 °C	1,095.5 μS/cm	1.83 mg/L		166.0 mV	275.00 cm	350.00 ml/min
24/03/2022 09:21	07:00	6.28 pH	10.55 °C	1,107.1 μS/cm	1.52 mg/L		158.9 mV	275.00 cm	350.00 ml/min
24/03/2022 09:22	08:00	6.28 pH	10.61 °C	1,106.6 μS/cm	1.30 mg/L		152.0 mV	275.00 cm	350.00 ml/min
24/03/2022 09:23	09:00	6.27 pH	10.63 °C	1,097.8 μS/cm	1.14 mg/L		145.8 mV	275.00 cm	350.00 ml/min
24/03/2022 09:24	10:00	6.27 pH	10.61 °C	1,083.7 μS/cm	1.03 mg/L		139.6 mV	275.00 cm	350.00 ml/min
24/03/2022 09:25	11:00	6.26 pH	10.62 °C	1,079.5 μS/cm	0.93 mg/L		133.7 mV	275.00 cm	350.00 ml/min
24/03/2022 09:26	12:00	6.26 pH	10.64 °C	1,071.7 μS/cm	0.85 mg/L		128.5 mV	275.00 cm	350.00 ml/min
24/03/2022 09:27	13:00	6.26 pH	10.64 °C	1,055.9 μS/cm	0.78 mg/L		123.6 mV	275.00 cm	350.00 ml/min

Sample ID:	Description:
GW	

Test Date / Time: 28/03/2022 09:42:39

Project: Mobuoy **Operator Name:** JC

Location Name: BH625
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 5 m
Top of Screen: 3 m
Total Depth: 8.07 m

Initial Depth to Water: 2.34 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 5 m Estimated Total Volume Pumped:

3500 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.34 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
28/03/2022 09:42	00:00	6.58 pH	8.78 °C	1,893.6 μS/cm	6.55 mg/L	127.0 mV	2.34 m	250.00 ml/min
28/03/2022 09:43	01:00	6.57 pH	8.77 °C	1,893.7 µS/cm	5.16 mg/L	126.5 mV	2.34 m	250.00 ml/min
28/03/2022 09:44	02:00	6.56 pH	8.78 °C	1,893.4 μS/cm	4.11 mg/L	122.6 mV	2.34 m	250.00 ml/min
28/03/2022 09:45	03:00	6.56 pH	8.79 °C	1,891.5 μS/cm	3.29 mg/L	116.9 mV	2.34 m	250.00 ml/min
28/03/2022 09:46	04:00	6.55 pH	8.83 °C	1,889.1 μS/cm	2.68 mg/L	112.4 mV	2.34 m	250.00 ml/min
28/03/2022 09:47	05:00	6.55 pH	8.87 °C	1,887.2 μS/cm	2.21 mg/L	107.6 mV	2.34 m	250.00 ml/min
28/03/2022 09:48	06:00	6.54 pH	8.89 °C	1,883.2 μS/cm	1.81 mg/L	100.8 mV	2.34 m	250.00 ml/min
28/03/2022 09:49	07:00	6.54 pH	8.89 °C	1,880.6 μS/cm	1.54 mg/L	95.6 mV	2.34 m	250.00 ml/min
28/03/2022 09:50	08:00	6.53 pH	8.91 °C	1,881.0 µS/cm	1.35 mg/L	89.4 mV	2.34 m	250.00 ml/min
28/03/2022 09:51	09:00	6.52 pH	8.96 °C	1,881.6 µS/cm	1.19 mg/L	83.5 mV	2.34 m	250.00 ml/min
28/03/2022 09:52	10:00	6.52 pH	8.98 °C	1,879.6 µS/cm	1.07 mg/L	77.7 mV	2.34 m	250.00 ml/min
28/03/2022 09:53	11:00	6.51 pH	9.00 °C	1,880.1 µS/cm	0.98 mg/L	72.2 mV	2.34 m	250.00 ml/min
28/03/2022 09:54	12:00	6.50 pH	9.00 °C	1,879.6 μS/cm	0.89 mg/L	67.1 mV	2.34 m	250.00 ml/min

28/03/2022	13:00	6.50 pH	9.01 °C	1,877.0 µS/cm	0.83 mg/L	62.6 mV	2.34 m	250.00 ml/min
09:55		•		'	ŭ			
28/03/2022	44.00	0.40 1.1	0.04.00	4.070.0 - 0/	0.77//	50.4 ··· \/	0.04	050.001/
09:56	14:00	6.49 pH	9.04 °C	1,878.6 µS/cm	0.77 mg/L	58.4 mV	2.34 m	250.00 ml/min

Sample ID:	Description:
BH625	

Test Date / Time: 24/03/2022 16:01:58

Project: Mobuoy **Operator Name:** JB

Location Name: BH626
Well Diameter: 50 cm
Casing Type: Plastic
Screen Length: 6 m
Top of Screen: 2 m
Total Depth: 7.94 m

Initial Depth to Water: 1.4 m

Pump Type: Peristaltic Tubing Type: HDPE

Pump Intake From TOC: 4.5 m Estimated Total Volume Pumped:

4200 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min Final Draw Down: 1.41 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.3	+/- 1	+/- 20	+/- 5	
24/03/2022 16:01	00:00	6.41 pH	9.82 °C	853.12 μS/cm	7.46 mg/L		111.7 mV	140.00 cm	350.00 ml/min
24/03/2022 16:02	01:00	6.46 pH	9.53 °C	863.45 μS/cm	5.41 mg/L		99.7 mV	140.00 cm	350.00 ml/min
24/03/2022 16:03	02:00	6.47 pH	9.55 °C	871.33 μS/cm	3.98 mg/L		90.3 mV	140.00 cm	350.00 ml/min
24/03/2022 16:04	03:00	6.48 pH	9.87 °C	870.29 μS/cm	2.96 mg/L		82.2 mV	140.00 cm	350.00 ml/min
24/03/2022 16:05	04:00	6.49 pH	9.93 °C	874.00 μS/cm	2.26 mg/L		76.1 mV	140.00 cm	350.00 ml/min
24/03/2022 16:06	05:00	6.50 pH	9.88 °C	881.15 μS/cm	1.80 mg/L		70.5 mV	140.00 cm	350.00 ml/min
24/03/2022 16:07	06:00	6.50 pH	9.92 °C	884.87 μS/cm	1.44 mg/L		64.7 mV	140.00 cm	350.00 ml/min
24/03/2022 16:08	07:00	6.51 pH	9.88 °C	889.99 μS/cm	1.18 mg/L		60.1 mV	140.00 cm	350.00 ml/min
24/03/2022 16:09	08:00	6.51 pH	9.85 °C	891.30 μS/cm	0.99 mg/L		56.0 mV	140.00 cm	350.00 ml/min
24/03/2022 16:10	09:00	6.51 pH	9.85 °C	892.40 μS/cm	0.83 mg/L		52.1 mV	140.00 cm	350.00 ml/min
24/03/2022 16:11	10:00	6.52 pH	9.83 °C	894.82 μS/cm	0.70 mg/L		48.5 mV	140.00 cm	350.00 ml/min
24/03/2022 16:12	11:00	6.52 pH	9.83 °C	899.01 μS/cm	0.61 mg/L		46.0 mV	140.00 cm	350.00 ml/min
24/03/2022 16:13	12:00	6.52 pH	9.86 °C	898.36 μS/cm	0.54 mg/L		44.1 mV	140.00 cm	350.00 ml/min

Sample ID:	Description:
GW	

Test Date / Time: 24/03/2022 15:29:23

Project: Mobuoy Operator Name: JB

Location Name: BH627
Well Diameter: 50 cm
Casing Type: Plastic
Screen Length: 6 m
Top of Screen: 2 m
Total Depth: 7.27 m

Initial Depth to Water: 1.62 m

Pump Type: Peristaltic Tubing Type: HDPE

Pump Intake From TOC: 4.5 m Estimated Total Volume Pumped:

5244.167 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min Final Draw Down: 1.63 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.3	+/- 1	+/- 20	+/- 5	
24/03/2022 15:29	00:00	6.46 pH	10.17 °C	550.40 μS/cm	7.22 mg/L		210.2 mV	162.00 cm	350.00 ml/min
24/03/2022 15:30	01:00	6.52 pH	10.05 °C	544.84 μS/cm	5.32 mg/L		203.6 mV	162.00 cm	350.00 ml/min
24/03/2022 15:31	02:00	6.56 pH	10.00 °C	533.35 μS/cm	3.97 mg/L		196.1 mV	162.00 cm	350.00 ml/min
24/03/2022 15:32	03:00	6.60 pH	9.99 °C	523.60 μS/cm	2.97 mg/L		186.1 mV	162.00 cm	350.00 ml/min
24/03/2022 15:33	04:00	6.62 pH	9.94 °C	513.96 μS/cm	2.29 mg/L		174.9 mV	162.00 cm	350.00 ml/min
24/03/2022 15:34	05:00	6.64 pH	9.87 °C	505.38 μS/cm	1.81 mg/L		163.4 mV	162.00 cm	350.00 ml/min
24/03/2022 15:35	06:00	6.65 pH	9.78 °C	502.87 μS/cm	1.46 mg/L		150.4 mV	162.00 cm	350.00 ml/min
24/03/2022 15:36	07:00	6.66 pH	9.76 °C	502.12 μS/cm	1.20 mg/L		136.5 mV	162.00 cm	350.00 ml/min
24/03/2022 15:37	08:00	6.67 pH	9.73 °C	498.43 μS/cm	1.00 mg/L		123.2 mV	162.00 cm	350.00 ml/min
24/03/2022 15:38	09:00	6.67 pH	9.78 °C	498.27 μS/cm	0.83 mg/L		110.0 mV	162.00 cm	350.00 ml/min
24/03/2022 15:39	10:00	6.68 pH	9.77 °C	499.71 μS/cm	0.71 mg/L		97.5 mV	162.00 cm	350.00 ml/min
24/03/2022 15:40	11:00	6.68 pH	9.75 °C	497.15 μS/cm	0.62 mg/L		86.5 mV	162.00 cm	350.00 ml/min
24/03/2022 15:41	12:00	6.69 pH	9.72 °C	494.70 μS/cm	0.56 mg/L		76.6 mV	162.00 cm	350.00 ml/min
24/03/2022 15:42	13:00	6.69 pH	9.71 °C	498.83 μS/cm	0.51 mg/L		67.6 mV	162.00 cm	350.00 ml/min
24/03/2022 15:43	14:00	6.69 pH	9.74 °C	498.25 μS/cm	0.47 mg/L		60.0 mV	162.00 cm	350.00 ml/min

24/03/2022	44.50	0.00 -11	0.74.00	400.050/2	0.44/	50.0 mV	400.00	250.001/
15:44	14:59	6.69 pH	9.74 °C	499.25 μS/cm	0.44 mg/L	53.2 mV	162.00 cm	350.00 ml/min

Sample ID:	Description:
GW	

Test Date / Time: 24/03/2022 14:54:07

Project: Mobuoy Operator Name: JB

Location Name: BH628
Well Diameter: 50 cm
Casing Type: Plastic
Screen Length: 5 m
Top of Screen: 3 m
Total Depth: 7.64 m

Initial Depth to Water: 2.55 m

Pump Type: Peristaltic Tubing Type: HDPE

Pump Intake From TOC: 5 m Estimated Total Volume Pumped:

4200 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min Final Draw Down: 2.58 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.3	+/- 1	+/- 20	+/- 5	
24/03/2022 14:54	00:00	6.43 pH	10.48 °C	332.47 μS/cm	7.02 mg/L		174.7 mV	255.00 cm	350.00 ml/min
24/03/2022 14:55	01:00	6.44 pH	10.48 °C	336.67 μS/cm	5.14 mg/L		173.0 mV	255.00 cm	350.00 ml/min
24/03/2022 14:56	02:00	6.44 pH	10.25 °C	337.39 μS/cm	3.80 mg/L		170.8 mV	255.00 cm	350.00 ml/min
24/03/2022 14:57	03:00	6.44 pH	10.21 °C	337.61 μS/cm	2.86 mg/L		169.2 mV	255.00 cm	350.00 ml/min
24/03/2022 14:58	04:00	6.44 pH	10.11 °C	337.80 μS/cm	2.22 mg/L		166.9 mV	255.00 cm	350.00 ml/min
24/03/2022 14:59	05:00	6.44 pH	10.10 °C	337.68 μS/cm	1.74 mg/L		164.8 mV	255.00 cm	350.00 ml/min
24/03/2022 15:00	06:00	6.46 pH	10.12 °C	338.14 μS/cm	1.41 mg/L		162.0 mV	255.00 cm	350.00 ml/min
24/03/2022 15:01	07:00	6.45 pH	10.11 °C	337.96 μS/cm	1.19 mg/L		160.8 mV	255.00 cm	350.00 ml/min
24/03/2022 15:02	08:00	6.44 pH	10.16 °C	338.39 µS/cm	0.99 mg/L		160.3 mV	255.00 cm	350.00 ml/min
24/03/2022 15:03	09:00	6.44 pH	10.21 °C	338.72 μS/cm	0.85 mg/L		159.3 mV	255.00 cm	350.00 ml/min
24/03/2022 15:04	10:00	6.44 pH	10.24 °C	338.14 μS/cm	0.74 mg/L		158.5 mV	255.00 cm	350.00 ml/min
24/03/2022 15:05	11:00	6.44 pH	10.20 °C	338.07 μS/cm	0.65 mg/L		158.2 mV	255.00 cm	350.00 ml/min
24/03/2022 15:06	12:00	6.44 pH	10.18 °C	337.83 μS/cm	0.58 mg/L		157.5 mV	255.00 cm	350.00 ml/min

Sample ID:	Description:
GW	

Test Date / Time: 24/03/2022 13:41:23

Project: Mobuoy Operator Name: JB

Location Name: BH629
Well Diameter: 50 cm
Casing Type: Plastic
Screen Length: 5 m
Top of Screen: 3 m
Total Depth: 7.16 m

Initial Depth to Water: 1.9 m

Pump Type: Peristaltic Tubing Type: HDPE

Pump Intake From TOC: 4 m Estimated Total Volume Pumped:

5600 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min Final Draw Down: 1.93 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.3	+/- 1	+/- 20	+/- 5	
24/03/2022 13:41	00:00	6.81 pH	12.59 °C	1,216.4 μS/cm	5.36 mg/L		218.8 mV	190.00 cm	350.00 ml/min
24/03/2022 13:42	01:00	6.88 pH	11.80 °C	1,233.8 μS/cm	3.97 mg/L		205.6 mV	190.00 cm	350.00 ml/min
24/03/2022 13:43	02:00	6.90 pH	11.39 °C	1,239.5 μS/cm	2.94 mg/L		191.6 mV	190.00 cm	350.00 ml/min
24/03/2022 13:44	03:00	6.93 pH	11.00 °C	1,248.1 μS/cm	2.26 mg/L		176.0 mV	190.00 cm	350.00 ml/min
24/03/2022 13:45	04:00	6.94 pH	10.93 °C	1,246.3 μS/cm	1.78 mg/L		160.6 mV	190.00 cm	350.00 ml/min
24/03/2022 13:46	05:00	6.96 pH	10.74 °C	1,247.9 μS/cm	1.43 mg/L		144.0 mV	190.00 cm	350.00 ml/min
24/03/2022 13:47	06:00	6.97 pH	10.77 °C	1,243.6 μS/cm	1.18 mg/L		127.1 mV	190.00 cm	350.00 ml/min
24/03/2022 13:48	07:00	6.97 pH	10.68 °C	1,241.4 µS/cm	1.00 mg/L		112.0 mV	190.00 cm	350.00 ml/min
24/03/2022 13:49	08:00	6.98 pH	10.62 °C	1,242.5 μS/cm	0.86 mg/L		95.8 mV	190.00 cm	350.00 ml/min
24/03/2022 13:50	09:00	6.97 pH	10.67 °C	1,241.5 μS/cm	0.73 mg/L		81.3 mV	190.00 cm	350.00 ml/min
24/03/2022 13:51	10:00	6.99 pH	10.54 °C	1,236.6 μS/cm	0.64 mg/L		67.5 mV	190.00 cm	350.00 ml/min
24/03/2022 13:52	11:00	6.98 pH	10.54 °C	1,235.4 μS/cm	0.56 mg/L		55.5 mV	190.00 cm	350.00 ml/min
24/03/2022 13:53	12:00	6.99 pH	10.48 °C	1,233.4 μS/cm	0.50 mg/L		44.1 mV	190.00 cm	350.00 ml/min
24/03/2022 13:54	13:00	6.98 pH	10.52 °C	1,233.0 μS/cm	0.45 mg/L		35.2 mV	190.00 cm	350.00 ml/min
24/03/2022 13:55	14:00	7.00 pH	10.40 °C	1,233.2 μS/cm	0.41 mg/L		26.3 mV	190.00 cm	350.00 ml/min

24/03/2022 13:56	15:00	7.01 pH	10.44 °C	1,232.9 μS/cm	0.38 mg/L	20.2 mV	190.00 cm	350.00 ml/min
24/03/2022 13:57	16:00	7.00 pH	10.31 °C	1,235.8 μS/cm	0.38 mg/L	16.5 mV	190.00 cm	350.00 ml/min

Sample ID:	Description:
GW	

Test Date / Time: 24/03/2022 14:19:21

Project: Mobuoy Operator Name: JB

Location Name: BH630
Well Diameter: 50 cm
Casing Type: Plastic
Screen Length: 5 m
Top of Screen: 3 m
Total Depth: 7.6 m

Initial Depth to Water: 2.04 m

Pump Type: Peristaltic Tubing Type: HDPE

Pump Intake From TOC: 4.5 m Estimated Total Volume Pumped:

5600 ml

Flow Cell Volume: 130 ml Final Flow Rate: 350 ml/min Final Draw Down: 2.05 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.3	+/- 1	+/- 20	+/- 5	
24/03/2022 14:19	00:00	6.68 pH	11.50 °C	401.69 μS/cm	5.73 mg/L		91.8 mV	204.00 cm	350.00 ml/min
24/03/2022 14:20	01:00	6.54 pH	11.41 °C	402.20 μS/cm	4.36 mg/L		94.8 mV	204.00 cm	350.00 ml/min
24/03/2022 14:21	02:00	6.46 pH	11.39 °C	405.27 μS/cm	3.44 mg/L		97.0 mV	204.00 cm	350.00 ml/min
24/03/2022 14:22	03:00	6.40 pH	11.72 °C	408.96 μS/cm	2.87 mg/L		98.2 mV	204.00 cm	350.00 ml/min
24/03/2022 14:23	04:00	6.36 pH	12.08 °C	411.95 μS/cm	2.45 mg/L		99.4 mV	204.00 cm	350.00 ml/min
24/03/2022 14:24	05:00	6.33 pH	12.44 °C	414.03 μS/cm	2.15 mg/L		101.2 mV	204.00 cm	350.00 ml/min
24/03/2022 14:25	06:00	6.31 pH	12.76 °C	415.26 μS/cm	1.94 mg/L		103.0 mV	204.00 cm	350.00 ml/min
24/03/2022 14:26	07:00	6.30 pH	13.03 °C	416.10 μS/cm	1.80 mg/L		104.0 mV	204.00 cm	350.00 ml/min
24/03/2022 14:27	08:00	6.25 pH	13.45 °C	419.84 μS/cm	1.69 mg/L		103.5 mV	204.00 cm	350.00 ml/min
24/03/2022 14:28	09:00	6.26 pH	12.75 °C	391.67 μS/cm	1.34 mg/L		106.1 mV	204.00 cm	350.00 ml/min
24/03/2022 14:29	10:00	6.23 pH	11.36 °C	398.94 μS/cm	1.17 mg/L		108.4 mV	204.00 cm	350.00 ml/min
24/03/2022 14:30	11:00	6.22 pH	10.84 °C	401.00 μS/cm	1.02 mg/L		108.7 mV	204.00 cm	350.00 ml/min
24/03/2022 14:31	12:00	6.22 pH	10.53 °C	402.80 μS/cm	0.87 mg/L		108.6 mV	204.00 cm	350.00 ml/min
24/03/2022 14:32	13:00	6.21 pH	10.43 °C	403.51 μS/cm	0.76 mg/L		109.0 mV	204.00 cm	350.00 ml/min
24/03/2022 14:33	14:00	6.22 pH	10.39 °C	403.34 μS/cm	0.66 mg/L		108.4 mV	204.00 cm	350.00 ml/min

24/03/2022 14:34	15:00	6.22 pH	10.29 °C	408.83 μS/cm	0.59 mg/L	108.9 mV	204.00 cm	350.00 ml/min
24/03/2022 14:35	16:00	6.24 pH	10.33 °C	410.36 μS/cm	0.54 mg/L	108.5 mV	204.00 cm	350.00 ml/min

Sample ID:	Description:
GW	

Test Date / Time: 28/03/2022 11:06:44

Project: Mobuoy **Operator Name:** JC

Location Name: BH632
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 6 m
Top of Screen: 4 m
Total Depth: 10.1 m

Initial Depth to Water: 0.91 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 5 m Estimated Total Volume Pumped:

3750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.14 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
28/03/2022 11:06	00:00	6.78 pH	10.37 °C	1,587.3 μS/cm	7.52 mg/L	51.2 mV	0.91 m	250.00 ml/min
28/03/2022 11:07	01:00	6.68 pH	10.30 °C	1,588.9 µS/cm	5.83 mg/L	55.2 mV	0.91 m	250.00 ml/min
28/03/2022 11:08	02:00	6.64 pH	10.20 °C	1,594.5 μS/cm	4.54 mg/L	56.4 mV	0.91 m	250.00 ml/min
28/03/2022 11:09	03:00	6.62 pH	10.40 °C	1,595.5 μS/cm	3.60 mg/L	56.2 mV	0.91 m	250.00 ml/min
28/03/2022 11:10	04:00	6.60 pH	10.27 °C	1,601.9 μS/cm	2.93 mg/L	55.6 mV	0.91 m	250.00 ml/min
28/03/2022 11:11	05:00	6.61 pH	10.26 °C	1,602.9 µS/cm	2.42 mg/L	56.9 mV	0.91 m	250.00 ml/min
28/03/2022 11:12	06:00	6.61 pH	10.25 °C	1,600.6 μS/cm	2.03 mg/L	56.2 mV	0.91 m	250.00 ml/min
28/03/2022 11:13	07:00	6.60 pH	10.24 °C	1,598.5 μS/cm	1.73 mg/L	55.8 mV	0.91 m	250.00 ml/min
28/03/2022 11:14	08:00	6.60 pH	10.23 °C	1,597.7 μS/cm	1.49 mg/L	56.3 mV	0.91 m	250.00 ml/min
28/03/2022 11:15	09:00	6.60 pH	10.20 °C	1,593.6 μS/cm	1.31 mg/L	56.1 mV	0.91 m	250.00 ml/min
28/03/2022 11:16	10:00	6.60 pH	10.20 °C	1,590.7 μS/cm	1.16 mg/L	55.5 mV	0.91 m	250.00 ml/min
28/03/2022 11:17	11:00	6.59 pH	10.18 °C	1,588.7 µS/cm	1.03 mg/L	55.4 mV	0.91 m	250.00 ml/min
28/03/2022 11:18	12:00	6.59 pH	10.23 °C	1,589.1 μS/cm	0.93 mg/L	55.4 mV	0.91 m	250.00 ml/min

28/03/2022	13:00	6.59 pH	10.28 °C	1,583.4 µS/cm	0.83 mg/L	54.8 mV	0.91 m	250.00 ml/min
11:19								
28/03/2022	14:00	6.59 pH	10.15 °C	1,580.0 µS/cm	0.77 mg/L	54.0 mV	0.91 m	250.00 ml/min
11:20								
28/03/2022	15:00	15:00 6.58 pH	10.11 °C	1,581.6 µS/cm	0.73 mg/L	53.9 mV	0.91 m	250.00 ml/min
11:21								

Sample ID:	Description:
BH632	

Low-Flow Test Report:

Test Date / Time: 05/04/2022 15:11:26

Project: Mobuoy **Operator Name:** JC

Location Name: BH656
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 5 m
Top of Screen: 0.5 m

Total Depth: 5.84 m

Initial Depth to Water: 5.41 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 5.7 m Estimated Total Volume Pumped:

4250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 5.41 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
05/04/2022 15:11	00:00	6.73 pH	10.47 °C	2,841.0 μS/cm	9.64 mg/L	160.5 mV	5.41 m	250.00 ml/min
05/04/2022 15:12	01:00	6.74 pH	10.48 °C	2,846.1 μS/cm	7.74 mg/L	149.2 mV	5.41 m	250.00 ml/min
05/04/2022 15:13	02:00	6.75 pH	10.50 °C	2,841.4 μS/cm	6.37 mg/L	140.5 mV	5.41 m	250.00 ml/min
05/04/2022 15:14	03:00	6.75 pH	10.48 °C	2,835.2 μS/cm	5.28 mg/L	131.2 mV	5.41 m	250.00 ml/min
05/04/2022 15:15	04:00	6.75 pH	10.46 °C	2,821.6 μS/cm	4.46 mg/L	121.4 mV	5.41 m	250.00 ml/min
05/04/2022 15:16	05:00	6.75 pH	10.45 °C	2,819.5 μS/cm	3.84 mg/L	111.3 mV	5.41 m	250.00 ml/min
05/04/2022 15:17	06:00	6.75 pH	10.46 °C	2,812.4 μS/cm	3.33 mg/L	100.0 mV	5.41 m	250.00 ml/min
05/04/2022 15:18	07:00	6.75 pH	10.48 °C	2,802.4 μS/cm	2.93 mg/L	88.3 mV	5.41 m	250.00 ml/min
05/04/2022 15:19	08:00	6.75 pH	10.50 °C	2,800.2 μS/cm	2.62 mg/L	77.2 mV	5.41 m	250.00 ml/min
05/04/2022 15:20	09:00	6.75 pH	10.52 °C	2,791.9 μS/cm	2.35 mg/L	66.0 mV	5.41 m	250.00 ml/min
05/04/2022 15:21	10:00	6.75 pH	10.54 °C	2,789.1 μS/cm	2.14 mg/L	55.7 mV	5.41 m	250.00 ml/min
05/04/2022 15:22	11:00	6.75 pH	10.57 °C	2,795.1 μS/cm	1.98 mg/L	46.6 mV	5.41 m	250.00 ml/min
05/04/2022 15:23	12:00	6.75 pH	10.55 °C	2,784.6 μS/cm	1.84 mg/L	38.4 mV	5.41 m	250.00 ml/min

05/04/2022 15:24	13:00	6.75 pH	10.49 °C	2,780.5 μS/cm	1.73 mg/L	31.0 mV	5.41 m	250.00 ml/min
05/04/2022 15:25	14:00	6.75 pH	10.51 °C	2,781.7 μS/cm	1.63 mg/L	24.7 mV	5.41 m	250.00 ml/min
05/04/2022 15:26	15:00	6.75 pH	10.54 °C	2,780.9 μS/cm	1.54 mg/L	18.8 mV	5.41 m	250.00 ml/min
05/04/2022 15:27	16:00	6.75 pH	10.57 °C	2,779.5 μS/cm	1.46 mg/L	13.7 mV	5.41 m	250.00 ml/min
05/04/2022 15:28	17:00	6.75 pH	10.62 °C	2,780.9 μS/cm	1.38 mg/L	9.6 mV	5.41 m	250.00 ml/min

Samples

Sample ID:	Description:
BH656	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 05/04/2022 14:10:38

Project: Mobuoy (4) **Operator Name:** JC

Location Name: BH657
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 3 m
Top of Screen: 0.9 m
Total Depth: 4.19 m

Initial Depth to Water: 3.55 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 3.8 m Estimated Total Volume Pumped:

5250 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.55 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
05/04/2022 14:10	00:00	7.03 pH	10.74 °C	377.70 μS/cm	10.57 mg/L	108.3 mV	3.55 m	250.00 ml/min
05/04/2022 14:11	01:00	6.94 pH	10.10 °C	398.64 μS/cm	10.82 mg/L	110.2 mV	3.55 m	250.00 ml/min
05/04/2022 14:12	02:00	6.86 pH	10.07 °C	316.02 μS/cm	10.78 mg/L	112.8 mV	3.55 m	250.00 ml/min
05/04/2022 14:13	03:00	6.78 pH	10.13 °C	274.97 μS/cm	10.64 mg/L	115.4 mV	3.55 m	250.00 ml/min
05/04/2022 14:14	04:00	6.73 pH	10.22 °C	220.44 μS/cm	10.53 mg/L	117.6 mV	3.55 m	250.00 ml/min
05/04/2022 14:15	05:00	6.70 pH	10.25 °C	130.11 µS/cm	10.41 mg/L	119.5 mV	3.55 m	250.00 ml/min
05/04/2022 14:16	06:00	6.67 pH	10.27 °C	132.34 μS/cm	10.28 mg/L	121.4 mV	3.55 m	250.00 ml/min
05/04/2022 14:17	07:00	6.64 pH	10.24 °C	97.11 μS/cm	10.15 mg/L	122.9 mV	3.55 m	250.00 ml/min
05/04/2022 14:18	08:00	6.62 pH	10.18 °C	63.17 µS/cm	10.06 mg/L	124.2 mV	3.55 m	250.00 ml/min
05/04/2022 14:19	09:00	6.61 pH	10.13 °C	16.48 µS/cm	9.98 mg/L	125.4 mV	3.55 m	250.00 ml/min
05/04/2022 14:20	10:00	6.60 pH	10.08 °C	11.40 µS/cm	9.88 mg/L	126.6 mV	3.55 m	250.00 ml/min
05/04/2022 14:21	11:00	6.60 pH	10.02 °C	13.54 µS/cm	9.79 mg/L	127.6 mV	3.55 m	250.00 ml/min
05/04/2022 14:22	12:00	6.60 pH	9.99 °C	8.54 μS/cm	9.68 mg/L	128.7 mV	3.55 m	250.00 ml/min

05/04/2022	13:00	6.60 pH	9.95 °C	7.93 µS/cm	9.60 mg/L	129.7 mV	3.55 m	250.00 ml/min
14:23		·		·				
05/04/2022	14:00	6.61 pH	10.01 °C	6.07 µS/cm	0.40 mg/l	130.4 mV	3.55 m	250.00 ml/min
14:24	14.00	0.01 pm	10.01 C	0.07 μ3/0111	9.49 mg/L		3.33 111	250.00 1111/111111
05/04/2022	45.00	0.04 -11	40.00.00	5.040/	0.40//	404.0 14	0.55	
14:25	15:00	6.61 pH	10.06 °C	5.24 µS/cm	9.40 mg/L	131.2 mV	3.55 m	250.00 ml/min
05/04/2022	16:00	6 62 511	10.00 °C	F 40C/om	0.21 mg/l	121.0 mV	2.55 m	250 00 ml/min
14:26	16:00	6.62 pH	10.09 °C	5.40 μS/cm	9.31 mg/L	131.9 mV	3.55 m	250.00 ml/min
05/04/2022		0.00 -11	60 ml	F 04 uC/om	0.24 mg/l	132.5 mV	3.55 m	250.00 ml/min
14:27	17:00	6.62 pH	10.11 °C	5.01 µS/cm	9.24 mg/L	132.5 mV	3.55 M	250.00 mi/min
05/04/2022	40-00	40.00	40.40.00	F 00C/	0.47 mg/l	122.2 m\/	2.55	050 001/
14:28	18:00	6.62 pH	10.13 °C	5.08 µS/cm	9.17 mg/L	133.2 mV	3.55 m	250.00 ml/min
05/04/2022	19:00	6 62 511	10.14 °C	4.70 uC/om	0.10 mg/l	133.9 mV	3.55 m	250.00 ml/min
14:29	19.00	6.62 pH	10.14 C	4.72 μS/cm	9.10 mg/L	133.9 1110	3.55 111	250.00 111/111111
05/04/2022	20:00	6 60 511	40.4E °C	4.07.uC/om	0.04 ma/l	124.4 m\/	2.55 m	250 00 ml/min
14:30		6.62 pH	10.15 °C	4.87 μS/cm	9.04 mg/L	134.4 mV	3.55 m	250.00 ml/min
05/04/2022	04.00	04.00	40.40.00	4.000/	0.00/1	425.0\/	2.55	250 00 ml/min
14:31	21:00	6.62 pH	10.16 °C	4.30 μS/cm	8.96 mg/L	135.0 mV	3.55 m	250.00 ml/min

Samples

Sample ID:	Description:
BH657	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 05/04/2022 12:20:25

Project: Mobuoy **Operator Name:** JC

Location Name: BH658
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 4.5 m

Top of Screen: 5.5 m Total Depth: 10.06 m

Initial Depth to Water: 2.58 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 7.8 m Estimated Total Volume Pumped:

4912.5 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.59 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
05/04/2022 12:20	00:00	6.55 pH	9.80 °C	839.04 μS/cm	9.53 mg/L	139.0 mV	2.58 m	250.00 ml/min
05/04/2022 12:21	01:00	6.65 pH	9.81 °C	854.96 μS/cm	7.83 mg/L	115.9 mV	2.58 m	250.00 ml/min
05/04/2022 12:22	02:00	6.67 pH	9.78 °C	860.15 μS/cm	6.37 mg/L	99.0 mV	2.58 m	250.00 ml/min
05/04/2022 12:23	03:00	6.69 pH	9.80 °C	862.18 μS/cm	5.21 mg/L	85.7 mV	2.58 m	250.00 ml/min
05/04/2022 12:24	04:00	6.71 pH	9.80 °C	861.90 μS/cm	4.27 mg/L	73.9 mV	2.58 m	250.00 ml/min
05/04/2022 12:25	05:00	6.72 pH	9.79 °C	862.51 μS/cm	3.58 mg/L	65.2 mV	2.58 m	250.00 ml/min
05/04/2022 12:26	06:00	6.73 pH	9.81 °C	863.26 μS/cm	3.02 mg/L	57.2 mV	2.58 m	250.00 ml/min
05/04/2022 12:27	07:00	6.74 pH	9.80 °C	863.16 μS/cm	2.57 mg/L	50.3 mV	2.58 m	250.00 ml/min
05/04/2022 12:28	08:00	6.74 pH	9.82 °C	863.86 µS/cm	2.22 mg/L	44.8 mV	2.58 m	250.00 ml/min
05/04/2022 12:29	09:00	6.74 pH	9.83 °C	864.03 μS/cm	1.93 mg/L	40.0 mV	2.58 m	250.00 ml/min
05/04/2022 12:30	10:00	6.74 pH	9.81 °C	863.39 µS/cm	1.70 mg/L	35.8 mV	2.58 m	250.00 ml/min
05/04/2022 12:31	11:00	6.75 pH	9.79 °C	863.73 μS/cm	1.53 mg/L	32.3 mV	2.58 m	250.00 ml/min
05/04/2022 12:32	12:00	6.75 pH	9.78 °C	863.82 μS/cm	1.38 mg/L	28.8 mV	2.58 m	250.00 ml/min

05/04/2022	15:39	6.75 pH	9.67 °C	864.19 µS/cm	1.02 mg/L	19.6 mV	2.58 m	250.00 ml/min
12:36	10.00	0.70 pm	0.07	001.10 до/оп	9, =	10.0 1111	2.00 111	
05/04/2022	16:39	6.76 pH	9.68 °C	865.37 µS/cm	0.04//	16.8 mV	2.58 m	250.00 ml/min
12:37	10.39	0.70 pm	9.00 C	ουσ.στ μο/απ	0.94 mg/L	10.01117	2.36 111	230.00 111/111111
05/04/2022	17:39	6.76 pH	9.76 °C	865.63 µS/cm	0.89 mg/L	14.9 mV	2.58 m	250.00 ml/min
12:38	17.59	0.76 μπ						
05/04/2022	18:39	6.76 pH	9.80 °C	864.94 µS/cm	0.85 mg/L	13.2 mV	2.58 m	250.00 ml/min
12:39	39	6.76 рп	9.60 C	ου4.94 μο/απ	0.65 Hig/L	13.2 1110	2.56 111	250.00 111/111111
05/04/2022	19:39	6.76 pH	9.80 °C	864.88 µS/cm	0.92 ma/l	11.4 mV	2.58 m	250.00 ml/min
12:40	19.59	6.76 μπ	9.60 C	ου4.00 μ3/011	0.82 mg/L	11.41117	2.56 111	250.00 111/111111

Samples

Sample ID:	Description:
BH658	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 05/04/2022 10:11:56

Project: Mobuoy **Operator Name:** JC

Location Name: BH661
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 5.5 m
Top of Screen: 4.5 m
Total Depth: 7.28 m

Initial Depth to Water: 1.74 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 6 m Estimated Total Volume Pumped:

2750 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 1.76 m **Instrument Used: Aqua TROLL 500**

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
05/04/2022 10:11	00:00	6.94 pH	9.42 °C	1,325.4 µS/cm	6.69 mg/L	124.1 mV	1.74 m	250.00 ml/min
05/04/2022 10:12	01:00	6.92 pH	9.43 °C	1,323.0 µS/cm	5.81 mg/L	113.0 mV	1.74 m	250.00 ml/min
05/04/2022 10:13	02:00	6.91 pH	9.39 °C	1,321.1 µS/cm	5.12 mg/L	101.1 mV	1.74 m	250.00 ml/min
05/04/2022 10:14	03:00	6.90 pH	9.37 °C	1,320.5 µS/cm	4.62 mg/L	87.0 mV	1.74 m	250.00 ml/min
05/04/2022 10:15	04:00	6.91 pH	9.33 °C	1,320.4 µS/cm	4.25 mg/L	74.9 mV	1.74 m	250.00 ml/min
05/04/2022 10:16	05:00	6.91 pH	9.37 °C	1,320.9 μS/cm	3.98 mg/L	65.4 mV	1.74 m	250.00 ml/min
05/04/2022 10:17	06:00	6.92 pH	9.42 °C	1,319.7 μS/cm	3.79 mg/L	55.0 mV	1.74 m	250.00 ml/min
05/04/2022 10:18	07:00	6.93 pH	9.41 °C	1,318.5 μS/cm	3.66 mg/L	45.2 mV	1.74 m	250.00 ml/min
05/04/2022 10:19	08:00	6.92 pH	9.40 °C	1,317.3 μS/cm	3.54 mg/L	38.1 mV	1.74 m	250.00 ml/min
05/04/2022 10:20	09:00	6.91 pH	9.42 °C	1,317.1 μS/cm	3.47 mg/L	32.2 mV	1.74 m	250.00 ml/min
05/04/2022 10:21	10:00	6.92 pH	9.41 °C	1,315.5 μS/cm	3.50 mg/L	27.4 mV	1.74 m	250.00 ml/min
05/04/2022 10:22	11:00	6.92 pH	9.40 °C	1,315.9 µS/cm	3.57 mg/L	24.0 mV	1.74 m	250.00 ml/min

Samples

Sample ID:	Description:
BH661	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 05/04/2022 11:32:10

Project: Mobuoy **Operator Name:** JC

Location Name: BH662
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 5 m
Top of Screen: 2 m
Total Depth: 5.21 m

Initial Depth to Water: 2.17 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 3.5 m Estimated Total Volume Pumped:

4000 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.65 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
05/04/2022 11:32	00:00	6.36 pH	9.06 °C	400.53 μS/cm	9.98 mg/L	141.8 mV	2.17 m	250.00 ml/min
05/04/2022 11:33	01:00	6.40 pH	8.94 °C	405.62 μS/cm	8.07 mg/L	138.6 mV	2.17 m	250.00 ml/min
05/04/2022 11:34	02:00	6.40 pH	8.92 °C	406.01 μS/cm	6.44 mg/L	138.1 mV	2.17 m	250.00 ml/min
05/04/2022 11:35	03:00	6.43 pH	8.91 °C	403.86 μS/cm	5.20 mg/L	134.8 mV	2.17 m	250.00 ml/min
05/04/2022 11:36	04:00	6.46 pH	8.91 °C	403.09 μS/cm	4.29 mg/L	131.9 mV	2.17 m	250.00 ml/min
05/04/2022 11:37	05:00	6.46 pH	8.87 °C	400.49 μS/cm	3.55 mg/L	130.1 mV	2.17 m	250.00 ml/min
05/04/2022 11:38	06:00	6.49 pH	8.92 °C	399.84 μS/cm	2.99 mg/L	128.0 mV	2.17 m	250.00 ml/min
05/04/2022 11:39	07:00	6.49 pH	8.92 °C	399.19 μS/cm	2.60 mg/L	126.5 mV	2.17 m	250.00 ml/min
05/04/2022 11:40	08:00	6.48 pH	8.93 °C	397.32 μS/cm	2.27 mg/L	125.4 mV	2.17 m	250.00 ml/min
05/04/2022 11:41	09:00	6.48 pH	8.92 °C	393.65 µS/cm	2.00 mg/L	124.0 mV	2.17 m	250.00 ml/min
05/04/2022 11:42	10:00	6.48 pH	8.92 °C	392.13 μS/cm	1.78 mg/L	123.2 mV	2.17 m	250.00 ml/min
05/04/2022 11:43	11:00	6.47 pH	8.92 °C	392.57 μS/cm	1.60 mg/L	122.5 mV	2.17 m	250.00 ml/min
05/04/2022 11:44	12:00	6.45 pH	8.91 °C	387.70 μS/cm	1.45 mg/L	122.6 mV	2.17 m	250.00 ml/min

05/04/2022	13:00	6.47 pH	8.91 °C	383.28 µS/cm	1.34 mg/L	121.1 mV	2.17 m	250.00 ml/min
11:45	10.00	0.47 pm	0.01	000.20 до/отт	1.04 mg/L	121.1111	2.17 111	200.00 111/111111
05/04/2022	14:00	6.46 pH	8.91 °C	381.02 µS/cm	1.26 mg/L	120.1 mV	2.17 m	250.00 ml/min
11:46	14.00	0.46 рп	0.91 C	361.02 μ3/011	1.26 Hig/L	120.11110	2.17 111	250.00 111/111111
05/04/2022	15:00	6.43 pH	8.90 °C	377.45 µS/cm	1.19 mg/L	120.6 mV	2.17 m	250.00 ml/min
11:47	15.00	0.43 pn	0.90 C	377.45 µ3/cm	1.19 Hig/L	120.61117	2.17 111	250.00 111/111111
05/04/2022	16:00	6.44 pH	8.90 °C	378.07 µS/cm	1 14 mg/l	119.4 mV	2.17 m	250.00 ml/min
11:48	16.00	0.44 μπ	0.90 °C	376.07 µ3/cm	1.14 mg/L	119.4 1110	2.17 111	250.00 Mi/Min

Samples

Sample ID:	Description:
BH662	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 05/04/2022 10:54:38

Project: Mobuoy **Operator Name:** JC

Location Name: BH664
Well Diameter: 5 cm
Casing Type: Plastic
Screen Length: 4 m
Top of Screen: 2 m
Total Depth: 5.88 m

Initial Depth to Water: 0.98 m

Pump Type: Perastaltic Tubing Type: HDPE

Pump Intake From TOC: 3.5 m Estimated Total Volume Pumped:

3500 ml

Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.98 m Instrument Used: Aqua TROLL 500

Serial Number: 791283

Test Notes:

Weather Conditions:

Overcast

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 3 %	+/- 0.2	+/- 20		
05/04/2022 10:54	00:00	7.29 pH	8.82 °C	223.28 μS/cm	9.81 mg/L	26.4 mV	0.98 m	250.00 ml/min
05/04/2022 10:55	01:00	7.11 pH	8.92 °C	213.44 µS/cm	8.87 mg/L	29.6 mV	0.98 m	250.00 ml/min
05/04/2022 10:56	02:00	6.93 pH	8.85 °C	208.87 μS/cm	8.21 mg/L	36.3 mV	0.98 m	250.00 ml/min
05/04/2022 10:57	03:00	6.78 pH	8.78 °C	206.12 μS/cm	7.65 mg/L	42.6 mV	0.98 m	250.00 ml/min
05/04/2022 10:58	04:00	6.67 pH	8.76 °C	204.82 μS/cm	7.20 mg/L	48.6 mV	0.98 m	250.00 ml/min
05/04/2022 10:59	05:00	6.59 pH	8.71 °C	202.98 μS/cm	6.88 mg/L	55.4 mV	0.98 m	250.00 ml/min
05/04/2022 11:00	06:00	6.52 pH	8.70 °C	202.64 μS/cm	6.60 mg/L	61.6 mV	0.98 m	250.00 ml/min
05/04/2022 11:01	07:00	6.44 pH	8.66 °C	202.38 μS/cm	6.40 mg/L	67.9 mV	0.98 m	250.00 ml/min
05/04/2022 11:02	08:00	6.40 pH	8.65 °C	202.24 μS/cm	6.21 mg/L	73.3 mV	0.98 m	250.00 ml/min
05/04/2022 11:03	09:00	6.35 pH	8.62 °C	203.06 μS/cm	6.07 mg/L	79.1 mV	0.98 m	250.00 ml/min
05/04/2022 11:04	10:00	6.31 pH	8.61 °C	202.71 μS/cm	5.96 mg/L	84.8 mV	0.98 m	250.00 ml/min
05/04/2022 11:05	11:00	6.29 pH	8.60 °C	202.26 μS/cm	5.86 mg/L	89.5 mV	0.98 m	250.00 ml/min
05/04/2022 11:06	12:00	6.26 pH	8.57 °C	202.28 μS/cm	5.78 mg/L	94.2 mV	0.98 m	250.00 ml/min

05/04/2022	13:00	6.24 pH	8.59 °C	202.06 µS/cm	5.72 mg/L	98.3 mV	0.98 m	250.00 ml/min
11:07	13.00	6.24 pm	0.59 C	202.06 μ3/cm	5.72 Hg/L	96.5 1117	0.96 111	250.00 111/111111
05/04/2022	14:00	6.22 pH	8.59 °C	201.77 uS/cm	E 66 ma/l	102.2 mV	0.98 m	250.00 ml/min
11:08	14.00	6.22 pn	6.59 °C	201.77 μ5/cm	5.66 mg/L	102.2 1110	0.96 111	250.00 mi/min

Samples

Sample ID:	Description:
BH664	

Created using VuSitu from In-Situ, Inc.

APPENDIX 5 – GROUNDWATER SAMPLING FIELD CALIBRATION REPORTS

Calibration Report

Instrument Aqua TROLL 500

Serial Number 791283

Created 18/01/2022

Post Measurement

RDO Concentration

OI C	atcu		10/01/20	<i>322</i>
Sens or	S	RDO		
Seria Num er		782457		
Last Calik ated	or	10/01/2022	2	
-	Calibi	ration Detail	ls	
	Slope	0.9554	1015	
	Offset	t 0.00 m	ng/L	
-	Calibi	ration point	100%	
	Concentration			10.19 mg/L
	Pre M	leasuremen	ıt	120.05 %Sat
	Post I	Measureme	nt	100.00 %Sat
	Temp	erature		16.49 °C
	Baron	netric Press	sure	1,009.7 mbar
-	Pre M	leasuremen	nt	
	RDO	Concentrati	on 8	3.52 mg/L

Sensor	pH/ORP		
Serial Number	758648		

10.00 mg/L

Last

Calibrat 18/01/2022

ed

Calibration Details

Calibration Point 1

pH of Buffer 7.04 pH

pH mV -26.2 mV

Temperature 8.52 °C

Pre Measurement

pH 7.38 pH

pH mV -27.0 mV

Post Measurement

pH 7.04 pH

pH mV -24.7 mV

Slope and Offset 1

Slope -55.89 mV/pH

Offset -23.9 mV

ORP

ORP Solution Quick-Cal

Offset 8.5 mV

Temperature 8.52 °C

Pre Measurement 263.0 mV

Post Measurement 248.4 mV

Sens or

Conductivity

Serial

Numb 780112

er

Last

Calibr

18/01/2022

ated

Calibration Details

TDS Conversion Factor (ppm) 0.65

Cell Constant 1.02

Reference Temperature 25.00 °C

Pre Measurement

Actual Conductivity 4,525.0 µS/cm

Specific Conductivity 6,603.8 µS/cm

Post Measurement

Actual Conductivity 5,481.7 µS/cm

Specific Conductivity 8,000.0 µS/cm

Calibration Report

Instrument Aqua TROLL 500

Serial Number 791283

Created 10/01/2022

Sens or	RDO		
Serial Numb er	782457		
Last Calibr ated	10/01/2022		

Calibration Details

Slope 0.9554015

Offset 0.00 mg/L

Calibration point 100%

Concentration 10.19 mg/L

Pre Measurement 120.05 %Sat

Post Measurement 100.00 %Sat

Temperature 16.49 °C

Barometric Pressure 1,009.7 mbar

Pre Measurement

RDO Concentration 8.52 mg/L

Post Measurement

RDO Concentration 10.00 mg/L

Sensor pH/ORP

Serial Number 758648

Last

Calibrat 10/03/2021

ed

Calibration Details

Calibration Point 1

pH of Buffer 7.02 pH

pH mV -7.3 mV

Temperature 21.06 °C

Pre Measurement

pH 7.02 pH

pH mV -7.2 mV

Post Measurement

pH 7.02 pH

pH mV -7.2 mV

Slope and Offset 1

Slope -58.38 mV/pH

Offset -6.1 mV

ORP

ORP Solution ZoBell's

Offset 26.9 mV

Temperature 21.41 °C

Pre Measurement 218.6 mV

Post Measurement 233.8 mV

or	Conductivity	
Serial Numb er	780112	
Last Calibr	10/03/2021	

Calibration Details

ated

TDS Conversion Factor (ppm) 0.65

Cell Constant 0.843

Reference Temperature 25.00 °C

Pre Measurement

Actual Conductivity 216,337 µS/cm

Specific Conductivity 236,546 µS/cm

Post Measurement

Actual Conductivity 182,914 µS/cm

Calibration Report

Aqua TROLL 500 Instrument

Serial Number 791283

Created 04/04/2022

Sens or	RDO		
Serial Numb er	782457		
Last Calibr ated	10/01/2022		
Cal	ibration Details		

0.9554015 Slope

0.00 mg/L Offset

Calibration point 100%

Concentration 10.19 mg/L

Pre Measurement 120.05 %Sat

Post Measurement 100.00 %Sat

16.49 °C Temperature

Barometric Pressure 1,009.7 mbar

Pre Measurement

8.52 mg/L RDO Concentration

Post Measurement

10.00 mg/L **RDO Concentration**

Sensor	pH/ORP
Serial Number	758648
Last Calibrat ed	04/04/2022

Calibration Details

Calibration Point 1

pH of Buffer 7.03 pH

pH mV -32.4 mV

Temperature 10.84 °C

Pre Measurement

pH 7.03 pH

pH mV -33.2 mV

Post Measurement

pH 7.03 pH

pH mV -30.8 mV

Slope and Offset 1

Slope -56.35 mV/pH

Offset -30.7 mV

ORP

ORP Solution Quick-Cal

Offset 42.0 mV

Temperature 10.84 °C

Pre Measurement 299.7 mV

Post Measurement 244.9 mV

Sen or	IS	Conductivity		
Seri Nur er		780112		
Las Cali ated	br	04/04/2022		
	Calib	ration Details		
	TDS	Conversion Factor	(ppm)	0.65
	Cell (Constant		1.02
	Refer	ence Temperature		25.00
	Pre N	e Measurement		
	Actua	al Conductivity	5,941.8	μS/cm
	Spec	ific Conductivity	8,145.1	μS/cm
	Post	Measurement		
	Actua	al Conductivity	5,835.9	μS/cm
	Spec	ific Conductivity	8,000.0	μS/cm

Calibration Report

Instrument Aqua TROLL 500

Serial Number 791283

Created 01/04/2022

Sens or	RDO
Serial Numb er	782457

Last

Calibr 10/01/2022

ated

Calibration Details

Slope 0.9554015

Offset 0.00 mg/L

Calibration point 100%

Concentration 10.19 mg/L

Pre Measurement 120.05 %Sat

Post Measurement 100.00 %Sat

Temperature 16.49 °C

Barometric Pressure 1,009.7 mbar

Pre Measurement

RDO Concentration 8.52 mg/L

Post Measurement

RDO Concentration 10.00 mg/L

Sensor **pH/ORP**

Serial Number 758648

Last

Calibrat 01/04/2022

ed

Calibration Details

Calibration Point 1

pH of Buffer 7.04 pH

pH mV -33.4 mV

Temperature 5.63 °C

Pre Measurement

pH 7.12 pH

pH mV -33.7 mV

Post Measurement

pH 7.04 pH

pH mV -31.2 mV

Slope and Offset 1

Slope -55.32 mV/pH

Offset -31.2 mV

ORP

ORP Solution Quick-Cal

Offset 97.5 mV

Temperature 5.63 °C

Pre Measurement 208.3 mV

Post Measurement 252.7 mV

Sens or Conductivity

Serial

Numb 780112

er

Last

Calibr 01/04/2022

ated

Calibration Details

TDS Conversion Factor (ppm) 0.65

Cell Constant 1.106

Reference Temperature 25.00 °C

Pre Measurement

Actual Conductivity 4,575.6 µS/cm

Specific Conductivity	7,263.6 µS/cm
Post Measurement	
Actual Conductivity	5,039.5 μS/cm
Specific Conductivity	8,000.0 µS/cm

Calibration Report

Instrument Aqua TROLL 500

Serial Number 791283

Created 22/03/2022

Sens or	RDO
Serial Numb er	782457
Last Calibr ated	10/01/2022
Cali	bration Details

Slope 0.9554015

Offset 0.00 mg/L

Calibration point 100%

Concentration 10.19 mg/L

Pre Measurement 120.05 %Sat

Post Measurement 100.00 %Sat

Temperature 16.49 °C

Barometric Pressure 1,009.7 mbar

Pre Measurement

RDO Concentration 8.52 mg/L

Post Measurement

RDO Concentration 10.00 mg/L

Sensor	pH/ORP
Serial Number	758648
Last Calibrat ed	22/03/2022

Calibration Details

Calibration Point 1

pH of Buffer 7.03 pH

pH mV -29.4 mV

Temperature 12.28 °C

Pre Measurement

pH 7.11 pH

pH mV -30.2 mV

Post Measurement

pH 7.03 pH

pH mV -28.1 mV

Slope and Offset 1

Slope -56.64 mV/pH

Offset -27.7 mV

ORP

ORP Solution Quick-Cal

Offset 56.3 mV

Temperature 12.28 °C

Pre Measurement 193.3 mV

Post Measurement 242.7 mV

Post Measurement

Actual Conductivity

Specific Conductivity

Sens or		Conductivity		
Serial Numb er		780112		
Last Calibr ated	r	22/03/2022		
<u>C</u>	Calib	ration Details		
Т	ΓDS (Conversion Factor	(ppm)	0.65
C	Cell C	Constant		1.003
F	Refer	ence Temperature		25.00 °C
<u> </u>	Pre N	<i>leasurement</i>		
Δ	Actua	al Conductivity	6,123.4	μS/cm
S	Speci	ific Conductivity	8,087.9	μS/cm

 $6,056.8~\mu\text{S/cm}$

 $8,000.0~\mu\text{S/cm}$

APPENDIX 6 – SOILS ASSESSMENT SUMMARY

| Contaminant GAC | Public Open Space -
Park (1% SOM) | BH601R | BH601R | BH601R
 | BH602R | BH602R | BH602R
 | BH603 | BH603 | BH603R | BH603R
 | BH607

 | BH607

 | 8H608 | BH609

 | BH639 | BH640
 | BH641 | BH642

 | BH642
 | BH643
 | BH643 | 8H656

 | BH656 | BH656 | BH656 | BH657
 | BH657 | 8H658
 | BH658 | BH658 | BH659 | BH659 | BH659 |
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---|---
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--|--|--|---|---|
| Heavy Metak | Depth (m) | 1.00 | 4.00 | 5.50
 | 1.00 | 3.00 | 4.00
 | 1.00 | 2.00 | 3.00 | 6.00
 | 0.20

 | 0.50

 | 0.20 | 0.20

 | 0.50 |
 | 0.50 |

 |
 |
 | | 1.0

 | 2.5 | 4.0 | 5.9 | 1.0
 | 4.0 | 1.0
 | 3.0 | 6.4 | 1.0 | 3.0 | 5.0 |
| Inorganic Arsenic
Cadmium | 170
532 | 2.7
< 0.10 | 1.7
<0.10 | 9.3
< 0.10
 | 2.3
< 0.10 | 6.9
0.14 | 10
< 0.10
 | 12
0.12 | 9.8
0.12 | 2.2
< 0.10 | 8.8
< 0.10
 | 1.3
< 0.10

 | < 1.0
< 0.10

 | 8
< 0.10 | 4.3
< 0.10

 | 14
0.24 | 11
0.26
 | 11
0.22 | 1.1
<0.10

 | 5.2
< 0.10
 | 8.8
0.21
 | 9.5
0.2 | 12
0.21

 | 2.9
0.1 | 27
2.6 | 9.8
0.22 | 4.5
< 0.10
 | 3.2
< 0.10 | 2.7
< 0.10
 | 15
2.4 | 12
2.1 | 5.4
0.1 | 6.2
0.21 | 8
0.14 |
| Boron
Chromium (total)
Copper | 46000
33000
44000 | 3.3 | 2.3 | 0.46
 | 5.9 | 7.7 | 1.2
 | < 0.40 | < 0.40 | 1.2 | 1.8
 | < 0.40
14
38

 | < 0.40
14

 | < 0.40
19
43 | < 0.40
26

 | 2.9 | 0.45
 | < 0.40 | < 0.40

 | < 0.40
 | 0.5
 | < 0.40 | < 0.40

 | 8.1 | 11 | 2 | < 0.40
 | < 0.40
-
8.3 | 0.89
 | 1.2 | < 0.40 | < 0.40 | 3.8 | 0.84 |
| Inorganic Mercury
Nickel | 240
800 | < 0.05
9.9 | < 0.05
9.1 | < 0.05
20
 | 0.05
11 | 0.08 | < 0.05
30
 | < 0.10
31 | < 0.10
27 | < 0.05 | < 0.05
41
 | < 0.10
31

 | < 0.10
31

 | < 0.10
45 | < 0.10
50

 | < 0.10
58 | < 0.10
26
 | < 0.10
23 | < 0.10
24

 | < 0.10
22
 | < 0.10
27
 | < 0.10
27 | < 0.10
29

 | < 0.10 | < 0.10
55 | 0.1
28 | < 0.10
9.7
 | < 0.10
6.4 | < 0.10
16
 | 0.1
67 | < 0.10
54 | < 0.10
19 | < 0.10
36 | < 0.10
37 |
| Lead
Selenium | 1300
1800
170000 | 10
0.35 | 0.37 | 12
0.92
 | 18
< 0.25 | 82
0.57 | 15
0.56
 | 25
< 0.20 | 23
< 0.20 | 12
< 0.25 | 0.65
 | 9.6
< 0.20

 | 1.7
< 0.20

 | 23
< 0.20 | 8.3
< 0.20

 | 35
< 0.20 | 29
0.28
 | 24
0.26 | 10
< 0.20

 | 12
< 0.20
 | 22
< 0.20
 | 26
0.31 | 22
<0.20

 | 22
< 0.20 | 88
< 0.20 | 71
< 0.20 | 4.5
< 0.20
 | 4
< 0.20 | 10
< 0.20
 | 27
0.77 | 21
0.63 | 9.8
< 0.20 | 43
< 0.20 | 14
< 0.20
89 |
| Zinc
Chromium (Trivalent) | 170000 | 6.3 | 120
8.8 | 51
15
 | 3.6 | 160
11 | 86
20
 | 75
21 | 67
19 | 54
7.7
< 0.50 | 100
21
 | < 0.50

 | 46
-
< 0.50

 | 55 | 63

 | 120
38 | 91
24
 | 82
25 | 54
19

 | 49
15
 | 86
24
 | 99
27 | 77
19

 | 5.9 | 320
38 | 200
16 | 7.3
< 0.50
 | 17
5.2
< 0.50 | 42
13
 | 140
28 | 110
21 | 39
13 | 260
26 | 89
19
< 0.50 |
| Chromium VI
Manganese
Magnesium (Water Soluble) | 220 | < 0.50
170
< 20 | < 0.50
150
< 20 | < 0.50
570
< 20
 | < 0.50
40
42 | < 0.50
170
56 | < 0.50
510
24
 | < 0.50
780
< 20 | < 0.50
660
< 20 | 150 | < 0.50
360
< 20
 |

 | - 1

 | |

 | < 0.50
1500
< 20 | < 0.50
1200
< 20
 | < 0.50
1500
< 20 | < 0.50
450
< 20

 | < 0.50
550
< 20
 | < 0.50
1200
< 20
 | < 0.50
1000
28 | < 0.50
1000
< 20

 | < 0.50
88
30 | < 0.50
1300
36 | < 0.50
360
< 20 | 160
< 20
 | 130 | < 0.50
370
< 20
 | < 0.50
1500
< 20 | < 0.50
1200
< 20 | < 0.50
620
< 20 | < 0.50
420
22 | 440
< 20 |
| Iron (Available)
Beryllium | | 37000
< 0.5 | < 0.5 | < 0.5
 | 80000
< 0.5 | < 0.5 | 19000
< 0.5
 | 9800
<1.0 | 15000
<1.0 | 23000
< 0.5 | 12000
< 0.5
 | -:-

 | - :

 | - : | -:-

 | 2900
<1.0 | 22000
< 1.0
 | 21000
<1.0 | 13000
< 1.0

 | 6400
< 1.0
 | 10000
< 1.0
 | 6200
<1.0 | 14000
<1.0

 | 31000
< 1.0 | 27000
<1.0 | 22000
< 1.0 | 4400
< 1.0
 | 5100
< 1.0 | 950
<1.0
 | 17000
<1.0 | 23000
< 1.0 | 4300
< 1.0 | 38000
< 1.0 | 18000
< 1.0 |
| Vanadium
Organics | mg/kg | 4.4 | 4.3 | 12
 | 18 | 66 | 17
 | 16 | 13 | 6.4 | 17
 | -

 |

 | - |

 | 33 | 28
 | 24 | 13

 | 9.3
 | 24
 | 28 | 25

 | 13 | 14 | 24 | 13
 | 9.3 | 8.6
 | 33 | 26 | 17 | 20 | 23 |
| Resorcinol
Cresols | 440 | | |
 | | |
 | | | |
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 | |
 | | | | | < 0.020
< 0.020 |
| Xylenols
1-Naphthol | | | |
 | | |
 | | - | , , | -
 | -

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 | | | |
 | | - 1
 | | | | - | < 0.020
< 0.020 |
| Trimethylphenols
Total Phenols | | 0.56 | 0.42 | < 0.10
 | < 0.10 | < 0.10 | < 0.10
 | 0.29 | < 0.10 | < 0.10 | < 0.10
 | ×0.10

 | < 0.10

 | × 0.10 | < 0.10

 | < 0.10 | < 0.10
 | < 0.10 | < 0.10

 | < 0.10
 | < 0.10
 | < 0.10 | < 0.10

 | 0.22 | 1.5 | ·
< 0.10 | < 0.10
 | < 0.10 | 0.38
 | < 0.10 | < 0.10 | ·
< 0.10 | 0.32 | < 0.020
< 0.10 |
| Total Petroleum Hydrocarbons Aliphatics EC>CS-C6 | 95000 | < 0.010 | <0.010 | < 0.010
 | < 0.010 | < 0.010 | < 0.010
 | <0.010 | < 0.010 | < 0.010 | < 0.010
 |

 |

 | | -

 | < 0.010 | < 0.010
 | < 0.010 | < 0.010

 | < 0.010
 | < 0.010
 | < 0.010 | < 0.010

 | < 0.010 | < 0.010 | <0.010 | < 0.010
 | < 0.010 | < 0.010
 | < 0.010 | < 0.010 | <0.010 | < 0.010 | < 0.010 |
| EC-C6-C8
EC-C8-C10 | 150000
14000 | < 0.010 | < 0.010 | < 0.010
 | < 0.010
< 0.10 | < 0.010
7.2 | < 0.010
 | < 0.010
< 0.10 | < 0.010
< 0.10 | < 0.010
< 0.10 | < 0.010
< 0.10
 | -

 |

 | |

 | < 0.010
< 0.10 | < 0.010
< 0.10
 | < 0.010
< 0.10 | < 0.010
< 0.10

 | < 0.010
< 0.10
 | < 0.010
< 0.10
 | < 0.010
< 0.10 | < 0.010

 | < 0.010 | < 0.010
14 | < 0.010
< 0.10 | < 0.010
5.9
 | < 0.010
< 0.10 | < 0.010
< 0.10
 | < 0.010
< 0.10 | < 0.010
< 0.10 | < 0.010 | < 0.010
24 | < 0.010
9.7 |
| EC=C10-C12
EC=C12-C16 | 21000
25000 | 110
210
76 | 320
540 | < 0.10
< 0.10
 | < 0.10
< 0.10
< 0.10 | 32
36 | < 0.10
< 0.10
 | < 0.10
< 0.10 | < 0.10
< 0.10 | 23
< 0.10 | < 0.10
< 0.10
 | - :

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 | - : | - :

 | < 0.10
< 0.10 | < 0.10
< 0.10
< 0.10
 | < 0.10
< 0.10 | < 0.10
< 0.10
< 0.10

 | < 0.10
< 0.10
< 0.10
 | < 0.10
< 0.10
< 0.10
 | < 0.10
< 0.10 | 19
36
28

 | 8.3
43
120 | 38
85
180 | <0.10
<0.10
<0.10 | 11
21
 | < 0.10
< 0.10 | < 0.10
< 0.10
 | < 0.10
< 0.10
< 0.10 | < 0.10
< 0.10 | 10
20
18 | 35
67 | 6.2
26
9.4 |
| EO:C16-C21
EO:C21-C35
EC:C35-C44 | 450000
450000
450000 | 76
3200
< 0.10 | < 0.10
4300
200 | < 0.10
< 0.10
 | < 0.10
190
< 0.10 | 140
1200
< 0.10 | < 0.10
170
< 0.10
 | < 0.10
< 0.10 | < 0.10
< 0.10
< 0.10 | < 0.10
420
< 0.10 | < 0.10
< 0.10
< 0.10
 |

 |

 | |

 | < 0.10
< 0.10
< 0.10 | < 0.10
95
< 0.10
 | < 0.10
< 0.10 | < 0.10
< 0.10

 | < 0.10
< 0.10
 | < 0.10
< 0.10
< 0.10
 | < 0.10
< 0.10
< 0.10 | 28
66
< 0.10

 | 120
850
20 | 180
1000
120 | < 0.10
< 0.10 | 16
33
40.10
 | < 0.10
< 0.10
× 0.10 | < 0.10
< 0.10
 | < 0.10
< 0.10 | < 0.10
< 0.10
< 0.10 | 18
160
< 0.10 | 140
920
22 | 9.4
88
< 0.10 |
| Total aliphatics | NA NA | 3600 | 5500 | < 1.0
 | 190 | 1400 | 170
 | <1.0 | <1.0 | 450 | <1.0
 |

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 | <1.0 | 95
 | <1.0 | < 1.0

 | < 1.0
 | <1.0
 | <1.0 | 160

 | 1000 | 1400 | < 1.0 | 86
 | <1.0 | <1.0
 | <1.0 | <1.0 | 210 | 1200 | 140 |
| Aromatics
EC 5-7 (benzene)
EC>C7-C8 (toluene) | 76000
87000 | < 0.010
67 | < 0.010
< 0.010 | < 0.010
 | < 0.010
< 0.010 | < 0.010 | < 0.010
 | < 0.010
< 0.010 | < 0.010
< 0.010 | |
 | - :

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 | < 0.010
< 0.010 | < 0.010
< 0.010
 | < 0.010
< 0.010 | < 0.010
< 0.010

 | < 0.010
< 0.010
 | < 0.010
< 0.010
 | < 0.010
< 0.010 | < 0.010
< 0.010

 | < 0.010
< 0.010 | < 0.010
< 0.010 | <0.010
<0.010 | < 0.010
< 0.010
 | < 0.010
< 0.010 | < 0.010
< 0.010
 | < 0.010
< 0.010 | < 0.010
< 0.010 | < 0.010
< 0.010 | < 0.010
< 0.010 | < 0.010
< 0.010 |
| EC>C10-C12 | 7200
9200 | 150
59 | 2800
340 | < 0.10
< 0.10
 | < 0.10
< 0.10 | 36
< 0.10 | < 0.10
< 0.10
 | < 0.10
< 0.10 | < 0.10
< 0.10 | 120
710 | < 0.10
< 0.10
 | - :

 | - :

 | |

 | < 0.10
< 0.10 | < 0.10
< 0.10
 | < 0.10 | < 0.10
< 0.10

 | < 0.10
< 0.10
 | < 0.10
< 0.10
 | < 0.10
< 0.10 | < 0.10
< 0.10

 | 19
< 0.10 | 210
230 | < 0.10
< 0.10 | < 0.10
< 0.10
 | < 0.10
< 0.10 | < 0.10
< 0.10
 | < 0.10
< 0.10 | < 0.10
< 0.10 | < 0.10
< 0.10 | 8.8
< 0.10 | 5.6
< 0.10 |
| EC-C12-C16
EC-C16-C21
EC-C21-C35 | 10000
7600
7800 | 470
220
7000 | 63
83
2300 | < 0.10
< 0.10
< 0.10
 | < 0.10
< 0.10
130 | | < 0.10
< 0.10
< 0.10
 | < 0.10
< 0.10
< 0.10 | < 0.10
< 0.10
< 0.10 | 710
860 | < 0.10
< 0.10
< 0.10
 |

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 | | -

 | < 0.10
< 0.10
< 0.10 | < 0.10
< 0.10
6.8
 | < 0.10
< 0.10
< 0.10 | < 0.10
< 0.10
< 0.10

 | < 0.10
< 0.10
< 0.10
 | < 0.10
< 0.10
< 0.10
 | < 0.10
< 0.10
< 0.10 | < 0.10
< 0.10
110

 | < 0.10
89
510 | 160
280
1100 | <0.10
<0.10
<0.10 | < 0.10
< 0.10
 | < 0.10
< 0.10
< 0.10 | 15
< 0.10
41
 | < 0.10
< 0.10
< 0.10 | < 0.10
< 0.10
< 0.10 | < 0.10
12
360 | 96
420 | < 0.10
32
100 |
| EC:C35-C44 Total aromatics | 7800 | < 0.10
8000 | 370
6000 | < 0.10
< 1.0
 | < 0.10
130 | 24
1000 | < 0.10
< 1.0
 | < 0.10
< 1.0 | < 0.10
< 1.0 | < 0.10
3800 | < 0.10
< 1.0
 |

 |

 | |

 | | < 0.10
6.8
 | < 0.10
< 1.0 |

 | < 0.10
< 1.0
 | < 0.10
< 1.0
 | < 0.10
< 1.0 | 4.7
120

 | 15
630 | 44
2000 | < 0.10
< 1.0 | 4.3
57
 | < 0.10
< 1.0 |
 | <0.10
<1.0 | < 0.10
< 1.0 | | | 6.1
150 |
| Total Aliphatics and Aromatics
TPH >C6-C8
TPH >C8-C10 | | 12000 | 11000 | < 2.0
 | 320 | 2400 | 170
 | < 2.0 | <2.0 | 4200 | < 2.0
 | × 1.0

 | ×1.0

 | ·
<1.0 | <1.0

 | < 2.0 | 100
 | < 2.0 | < 2.0

 | < 2.0
 | < 2.0
 | < 2.0 | 270

 | 1700 | 3400 | < 2.0 | 140
 | < 2.0 | 56
 | <2.0 | < 2.0 | 600 | 1800 | 290 |
| TPH >C10-C12 | | - : | - : |
 | - : | | - :
 | | : | - : | - :
 | < 1.0
< 1.0

 | <1.0
<1.0

 | 12 | <1.0
<1.0

 | |
 | |

 | - :
 |
 | | - :

 | - : | - : | - : |
 | | - :
 | | | | - : | - |
| TPH>C12-C16
TPH>C16-C21
TPH>C21-C25 | | | |
 | | |
 | | | |
 | < 1.0
< 1.0

 | <1.0
<1.0

 | 27
21
13 | <1.0
<1.0
<1.0

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 | 14.0

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 | |
 | | | | - | |
| TPH >C25-C35
TPH >C35-C40 | | - | - | -
 | | - | -
 | - | | - | -
 | < 1.0
< 1.0

 | < 1.0
< 1.0

 | 10
< 1.0 | < 1.0
< 1.0

 | - | -
 | - | _

 | -
 | -
 | - | -

 | - : | | - : | | |
|---|---|---|---|---|
 | - | | - | - | - |
| Total TPH >C6-C40
Total TPH >C10-C40 | | | - 1 |
 | - | : |
 | : | : | |
 | < 1.0
< 1.0
< 10

 | <1.0
<1.0
<10

 | 10
<1.0
85 | <1.0
<1.0
<10

 | - | -
 | |

 | -
 | :
 | - |

 | | | | -
 | - | :
 | | | | ÷ | - |
| Total TPH >C6-C40 Total TPH >C10-C40 Total TPH >C5-C10 BYEX & MYSE | mg/kg
90 | < 0.0010 | <0.0010 | < 0.0010
 | <0.0010 | <0.0010 | <0.0010
 | < 0.0010 | 0.0055 | 0.15 | <0.0010
 | <1.0
<1.0
<10

 | <1.0
<10
<10

 | 10
<1.0
85 | <1.0
<1.0
<10

 | < 0.0010 | <0.0010
 | < 0.0010 | < 0.0010

 | < 0.0010
 | < 0.0010
 | < 0.0010 | < 0.0010

 | 0.0037 | 0.0052 | <0.0010 | <0.0010
 | <0.0010 | <0.0010
 | 0.0022 | < 0.0010 | 0.0041 | 0.016 | < 0.0010 |
| Total TPH >CS-C40 Total TPH >CS-C40 Total TPH >CS-C10 Total TPH >CS-C10 B1EX & AVTBE Benzene Totuene | m(I/kg
50
87000
17000 | < 0.0010
0.014
0.047 | <0.0010
0.0082
0.026 | <0.0010
<0.0010
<0.0010
 | < 0.0010
< 0.0010
< 0.0010 | <0.0010
0.021
0.044 | < 0.0010
< 0.0010
< 0.0010
 | < 0.0010
0.0015
0.0024 | 0.0055
0.02
0.032 | 0.15
0.2
0.17 | < 0.0010
< 0.0010
< 0.0010
 | < 1.0
< 1.0
< 10

 | <1.0
<1.0
<10
-

 | 10
<1.0
85
-
-
- | <1.0
<1.0
<10
-

 | < 0.0010
< 0.0010
< 0.0010 | <0.0010
<0.0010
<0.0010
 | < 0.0010
< 0.0010
< 0.0010
< 0.0010 | < 0.0010
< 0.0010
< 0.0010

 | <0.0010
<0.0010
<0.0010
 | <0.0010
<0.0010
<0.0010
 | <0.0010
<0.0010
<0.0010
<0.0010 | < 0.0010
< 0.0010
< 0.0010

 | 0.0037
0.0057
0.0063 | 0.0052
0.0037
0.01 | < 0.0010
< 0.0010
< 0.0010
< 0.0010 | <0.0010
<0.0010
<0.0010
 | < 0.0010
< 0.0010
< 0.0010 | <0.0010
<0.0010
<0.0010
 | 0.0022
0.0031
0.069 | < 0.0010
< 0.0010
< 0.0010 | 0.0041 | 0.016
3.1
0.29 | <0.0010
<0.0010
<0.0010 |
| Total TPH >C6-C40 Total TPH >C10-C40 Total TPH >C5-C10 Total TPH >C5-C10 BYEX& MTBE Benzene | mg/kg
90
87000
17000
17000
17000 | < 0.0010
0.014
0.047
0.14
0.15 | |
 | | 0.044
0.075 |
 | | 0.032 | 0.15
0.2
0.17
0.093
0.058 |
 | <1.0
<1.0
<10
-

 | <1.0
<1.0
<10
-

 | 10
<1.0
85
-
- | <1.0
<1.0
<10
·

 | < 0.0010
< 0.0010
< 0.0010
< 0.0010
< 0.0010
< 0.0010 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
 | |

 |
 |
 | |

 | 0.0037
0.0057
0.0053
0.0073
0.0045 | 0.0052
0.0052
0.0037
0.01
0.081 | |
 | |
 | | | 0.0041
0.002
0.013
0.16
0.0065 | 0.016
3.1
0.29
3 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010 |
| Total TPH >CG. C40 Total TPH >CD.C40 Total TPH >CS.C10 BTEX & MTEE Benszene Totaene Ethybenszene mikp-sylvine | 17000
170000
170000
NA | <0.0010
0.014
0.047
0.14
0.15
<0.0010 | 0.0082
0.026
0.052
0.093
< 0.0010 |
 | < 0.0010
< 0.0010 | 0.044
0.075 |
 | 0.0024 | | 0.15
0.2
0.17
0.093
0.068
<0.0010 |
 | <1.0
<1.0
<10

 | <1.0
<10
< 10
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-

 | 10
<1.0
85
-
-
-
-
-
-
-
-
-
-
-
-
- | <1.0
<1.0
<1.0
<1.0
· · · · · · · · · · · · · · · · · · ·

 | <.0.0010
<.0.0010
<.0.0010
<.0.0010
<.0.0010
<.0.0010 | < 0.0010
< 0.0010
< 0.0010
< 0.0010
 | | < 0.0010

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 | |

 | 0.0037
0.0057
0.0063
0.0073
0.0045
< 0.0010 | 0.0052
0.0037
0.01
0.081
0.0055
< 0.0010 | |
 | |
 | | | 0.0041
0.002
0.013
0.16
0.0065
<0.0010 | 0.016
3.1
0.29
3
0.11
<0.0010 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
<0.0010 |
| Total THY ACC ACO Total THY ACC ACO Total THY ACC ACO Total THY ACC ACO BETTER & MYTHE Because Because mile prefere o system O system Mage Polypeck Accountly for deceasions Nepholishere Accomplishere Accomplishere | 17000
170000
170000
NA
mg/kg
1200
29000 | 0.047
0.14
0.15
< 0.0010
< 0.010
< 0.010 | 0.0082
0.026
0.052
0.093
<0.0010
1
0.87 | <0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010
 | <0.0010
<0.0010
<0.0010
<0.0010
6.5
2 | 0.044
0.075
0.042
<0.0010
3.4
1.7 | <0.0010
<0.0010
<0.0010
<0.0010
1.3
0.81
 | 0.0024
0.0056
0.0025
< 0.0010
< 0.010
< 0.010 | 0.032
0.049
0.031
< 0.0010
< 0.010
< 0.010
< 0.010 | 0.17
0.093
0.068
< 0.0010
35
280
42 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
3.4
2.6
0.82
 | <1.0
<10
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-

 | <.00 <.00 <.00 <.00 <.00 <.00 <.00 <.00

 | 10
<1.0
85
-
-
-
-
-
-
-
-
-
-
-
-
- | <1.0
<10

 | | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
0.064
0.018
 | < 0.0010
< 0.0010
< 0.0010
< 0.0010
< 0.010
< 0.010 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
<0.010

 | <0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010
 | <0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010
 | <0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010 | < 0.0010
< 0.0010
< 0.0010
< 0.0010
< 0.0010
3.3
1.9
0.4

 | 0.0063
0.0073
0.0045
< 0.0010
8.3
1.3 | 0.0052
0.0037
0.001
0.001
0.0055
< 0.0010
13
0.75
0.47 | | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
<0.010
 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010 | <0.0010
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<0.010
 | 0.069
0.057
0.013
< 0.0010
< 0.010
< 0.010 | <0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010 | 0.013
0.16
0.0065
< 0.0010
< 0.010
< 0.010 | 0.016
3.1
0.29
3
0.11
<0.0010
0.34
0.39
0.26 | 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.8 0.32 0.46 |
| Total TPH V.C.CGO Total TPH V.C.CGO Total TPH V.CDCGO Total TPH V. | 17000
170000
170000
NA
mg/kg
1200
29000 | 0.047
0.14
0.15
< 0.0010
< 0.010
< 0.010 | 0.0082
0.026
0.052
0.093
<0.0010
1
0.87 | <0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010
 | <0.0010
<0.0010
<0.0010
<0.0010
6.5
2 | 0.044
0.075
0.042
<0.0010
3.4
1.7 | <0.0010
<0.0010
<0.0010
<0.0010
1.3
0.81
 | 0.0024
0.0056
0.0025
< 0.0010
< 0.010
< 0.010 | 0.032
0.049
0.031
< 0.0010
< 0.010
< 0.010
< 0.010 | 0.17
0.093
0.068
< 0.0010
35
280
42 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
3.4
2.6
0.82
 | <.10
<.10

 | <.00 <.00 <.00 <.00 <.00 <.00 <.00 <.00

 | | <1.0
<10

 | | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
0.064
0.018
 | < 0.0010
< 0.0010
< 0.0010
< 0.0010
< 0.010
< 0.010 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
<0.010

 | <0.0010
<0.0010
<0.0010
<0.0010
<0.010
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 | <0.0010
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<0.0010
<0.0010
<0.010
<0.010
 | <0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
3.3
1.9
0.4
0.29
0.41

 | 0.0063
0.0073
0.0045
< 0.0010
8.3
1.3 | 0.0052
0.0037
0.01
0.081
0.083
0.0055
< 0.0010
13
0.75
0.47
0.56
0.93 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
1.6
0.62
0.18
0.27
0.58 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
<0.010
 | <0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010
<0.010
<0.010 | <0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010
 | 0.069
0.057
0.013
< 0.0010
< 0.010
< 0.010 | <0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010 | 0.013
0.16
0.0065
< 0.0010
< 0.010
< 0.010 | 0.016 3.1 0.29 3 0.11 <0.0010 0.34 0.39 0.26 0.32 0.87 | 1.7 |
| Total Prin LCG. 640 Total | 17000
170000
170000
NA
mg/kg
1200
29000 | 0.047
0.14
0.15
<0.0010
<0.010
<0.010
<0.010
0.010
0.010
0.010 | 0.0082
0.026
0.052
0.093
<0.0010
1
0.87 | <0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010
<0.010
<0.010
<0.010
<0.010
 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
6.5
2
0.41
0.34
0.4
0.087 | 0.044
0.075
0.042
<0.0010
3.4
1.7
0.4
0.49
0.77 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
1.3
0.81
0.19
0.33
1.1
0.15
 | 0.0024
0.0056
0.0025
<0.0010
<0.010
<0.010
<0.010
<0.010
<0.010
<0.010
<0.010 | 0.032
0.049
0.031
< 0.0010
< 0.010
< 0.010
< 0.010
< 0.010
< 0.010
< 0.010
< 0.010
< 0.010 | 0.17
0.093
0.068
< 0.0010
35
280
42
110
300
44 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
3.4
2.6
0.82
2.3
6.8
0.72
 | <1.0 <10 <10 <10 <10 <10 <10 <10 <10 <10 <1

 | <1.0 <10

 | <0.010
<0.010
<0.010
<0.010
<0.010 | <1.0 <10 <10 <10 <10 <10 <10 <10 <10 <10 <1

 | < 0.010
< 0.010
< 0.010 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
0.064
0.018
0.035
0.022
0.13
 | < 0.0010
< 0.0010
< 0.0010
< 0.0010
< 0.010
< 0.010
< 0.010
< 0.010
< 0.010
< 0.010
0.099 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010
<0.010
<0.010
<0.010
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 | <0.0010
<0.0010
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<0.0010
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 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010
<0.010
<0.010
0.093
 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010
<0.010
<0.010
0.045
0.019 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
3.3
1.9
0.4
0.29
0.41
0.11

 | 0.0063
0.0073
0.0045
<0.0010
8.3
1.3
0.31
0.25
0.45 | 0.56
0.93
0.19 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
1.6
0.62
0.18
0.27
0.58
0.15 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010
<0.010
<0.010
0.48
 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010
<0.010
<0.010
0.68 | <0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010
<0.010
<0.010
0.010
0.013
 | 0.069
0.057
0.013
< 0.0010
< 0.010
< 0.010
< 0.010
< 0.010
0.024 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010
<0.010
0.010
0.010
0.010 | 0.013
0.16
0.0065
<0.0010
<0.010
<0.010
<0.010
<0.010
0.47 | 0.32
0.87
0.26 | 0.44
1.7
0.46 |
| Total PIN (S.C. 60) For TIN (S | 17000
17000
17000
NA
mg/kg
1200
29000
29000
6200
150000 | 0.047
0.14
0.15
<0.0010
<0.010
<0.010
<0.010
<0.010
0.61
0.085
0.43
0.52 | 0.0082
0.026
0.052
0.093
< 0.0010
1
0.87
0.24
0.48
1.2
0.27
1
1.3
0.23 | <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010
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6.5
2
0.41
0.34
0.4
0.667
0.29
0.39 | 0.044
0.075
0.042
<0.0010
3.4
1.7
0.4
0.49
0.77
0.16
0.3
0.39 | <.0.0010
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1.3
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<0.010 | 0.17
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< 0.0010
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280
42
110
300
44 | <0.0010
<0.0010
<0.0010
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<0.0010
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2.3
6.8
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0.093
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0.12
0.073
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<0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010
<0.010
0.045
0.019
0.056
0.049
<0.010
 | <.0.0010
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<.0.0010
<.0.0010
<.0.0010
3.3
1.9
0.4
0.29
0.41
0.11
0.24
0.23
0.35
 | 0.0063
0.0073
0.0045
<0.0010
8.3
1.3
0.31
0.25
0.45
0.24
0.44
0.44
 | 0.56
0.93
0.19
0.62
0.51
0.14 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
1.6
0.62
0.18
0.27
0.58
0.15
1
0.99 | <0.0010
<0.0010
<0.0010
<0.0010
<0.0010
<0.010
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<0.010
<0.010
0.48
0.26
0.58
0.53 | <0.0010
<0.0010
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40.0019 | 4.0.0003 4.0 | 4 0,0019 4 0
 | 0.009 0.0091 0.0001 0.0 | 4 0.0030 (4 0.00 | 0.013 0.16 0.16 0.16 0.000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000 | 0.12 | 0.44 1.16 1.6 1.6 1.6 1.7 1.6 1.7 1.6 1.7 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 |

GACa are the LOM S4ULs with 1% SOM with the exception of those Islaed below.

1. The GAC for lead is the C4SL derived using a Low Level of Toxicological Concern (LTC) of 3.5sg/stl. blood lead.

2. Free Cyanide - MYG derived using CLEA. See WYG Technical Memorandrum: Derivation of a SSV.

Contaminant GAC	Public Open Space - Park (1% SOM)	BH659	BH659	BH659	BH659	BH659	BH659	BH659	BH660	BH660	BH660	BH660	BH660	BH660A	BH660A	BH660A	BH660A	BH661	BH661	BH662	BH662	BH663	BH664	BH664	BH665	BH665	BH665	BH665	BH665	BH665	BH665	BH665	BH666	BH666
Heavy Metals	Depth (m) mg/kg	7.0	8.0	9.0	11.0	12.0	13.0	14	2.00	6.00	7.00	8.00	9.00	9.00	10.00	12.0	13.0	1.00	5.00	1.00	3.00	2.00	0.50	1.00	1.00	3.00	4.00	7.0	8.0	10.0	11.0	12.0	0.50	2.00
Inorganic Arsenic Cadmium Boron	170 532	6.7 0.15 0.69	- 1	0.27 0.73	13 0.84 3.5	- :	12 < 0.10 3.5	- :	7.5 0.21 7.6	4.3 0.18 8.6	10 0.78 7.9	8.5 0.27	5.7 0.13	1.9 0.16	2.6 0.11	5.7 0.1 0.68	5.5 0.13	18 0.17	< 1.0 < 0.10	31 0.19 < 0.40	0.26	55 0.11 < 0.40	20 0.21 0.51	18 0.2 0.42	10 0.25 4.2	10 0.24 8.3	- :	21 0.46	16 0.58	25 1.5 0.93	4.9 1 < 0.40	20 2.7 0.72	13 0.12 0.64	4.3 0.12 1.1
Chromium (total) Copper	46000 33000 44000	26		- 48	85	-	160		- 61	37	130	27	3.5 - 45	1000	- 1.2 - 26	- 18	15 16	1.1 84	16	30	51	28	75	65	- 44	50	- :	- 61	170	150	19	27	40	26
Inorganic Mercury Nickel	240 800	< 0.10 26 16	- :	< 0.10 46 32	0.14 55 120	- :	0.19 33 170	- :	< 0.10 51	< 0.10 25	1.5 31	<0.10 33 44	< 0.10 29 28	< 0.10 13	< 0.10 10 8.2	< 0.05 15	< 0.05 14	0.13 65	< 0.10 20 5.6	0.68 17 370	5.3 15	1.8 9.4 53	< 0.10 50	< 0.10 37	0.25 40 31	< 0.10 43	- :	0.21 82 36	0.39 89 230	1.4 79	0.15 39	< 0.10 26	< 0.10 36	< 0.10 38
Lead Selenium Zinc	1300 1800 170000	< 0.20 99		< 0.20 200	< 0.20 270		< 0.20 380		0.2 220	< 0.20 130	130 0.22 260	0.41 87	< 0.20 180	< 0.20 93	< 0.20 31	0.45 56	0.38 57	0.21 220	2.2 17	0.4 59	130 0.69 93	0.38 47	0.35 130	0.25 110	< 0.20 170	< 0.20 210		0.25 130	0.39 540	180 < 0.20 590	< 0.20 76	0.45 220	< 0.20 120	16 < 0.20 95
Chromium (Trivalent) Chromium VI	220	18 < 0.50 360		32 < 0.50 510	34		34 < 0.50	- 1	30 < 0.50	15 < 0.50	31 < 0.50	43 < 0.50 340	17 < 0.50	7.3 < 0.50 210	5.6 < 0.50	14 < 0.50		33 < 0.50	8.7 < 0.50	17 < 0.50	20 < 0.50 570	7.7 < 0.50 250	29 < 0.50	24 < 0.50	31 < 0.50	26 < 0.50		21 < 0.50 550	62 < 0.50 930	55 < 0.50 780	14 < 0.50 780	18 < 0.50 670	20 < 0.50	21 < 0.50 390
Magnesium (Water Soluble)		< 20		< 20	< 20	-	< 20	400	< 20	320 < 20		< 20	420 < 20	< 20	90 < 20	< 20	300 < 20 100000	760	250		< 20	250 < 20 6900 < 1.0	1900 < 20	1700 < 20	770 < 20	700 < 20	- :	56	48	< 20	780 < 20	€ 20	660 < 20 56000 < 1.0	< 20
Iron (Available) Beryllium Vanadium		23000 <1.0 21		35000 <1.0 29	35000 < 1.0 34	-	25000 <1.0 30	-	47000 <1.0 35	< 1.0 21	32000 <1.0 25	15000 < 1.0 41	9000 < 1.0 24	10000 < 1.0 11	4900 < 1.0 10	12000 < 0.5 13	< 0.5 11	<20 11000 <1.0 43	21000 < 1.0 7	10000 <1.0 29	26000 < 1.0 30	< 1.0 8.6	3200 <1.0 32	3300 < 1.0 21	34000 1.3 26	49000 < 1.0 24	- :	74000 < 1.0 19	84000 < 1.0 74	<1.0 54	110000 < 1.0 14	77000 <1.0 21	< 1.0 16	44000 < 1.0 17
Organics Phenol	mg/kg 440	< 0.020		< 0.020	< 0.020	< 0.020		< 0.020		-					-	0.16	< 0.020		-		-					-	< 0.020		< 0.020	5.1	< 0.020	< 0.020		
Resorcinol Cresols Xylenols		< 0.020 < 0.020 < 0.020	- :	< 0.020 < 0.020	< 0.020 < 0.020 < 0.020	< 0.020 < 0.020 < 0.020	- :	< 0.020 < 0.020 0.17	- :	:	- :	- :	- :	- :	- :	< 0.020 0.067 0.27	<0.020 <0.020 <0.020	÷	- :	- :	÷	- :	÷	÷	÷	÷	< 0.020 0.14 < 0.020	÷	< 0.020 0.11 0.67	< 0.020 8.3	< 0.020 < 0.020 < 0.020	< 0.020 < 0.020	- :	-:-
1-Naphthol Trimethylphenols		< 0.020 < 0.020		< 0.020 < 0.020	< 0.020	< 0.020 < 0.020		< 0.020 < 0.020	-		-		-	-		< 0.020 0.17	< 0.020 < 0.020			-				-		-	< 0.020 < 0.020		< 0.020 < 0.020	< 0.020 11	< 0.020 < 0.020	< 0.020 < 0.020	-	=
Total Phenois Total Petroleum Hydrocarbons	mg/kg	< 0.10	-	< 0.10	< 0.10	< 0.10	< 0.10	0.17	0.97	< 0.10	< 0.10	< 0.10	< 0.10	1.6	14	0.67	< 0.10	0.58	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.26	0.14	< 0.10	0.77	49	< 0.10	< 0.10	< 0.10	0.26
Aliphatics EC-CS-C6 EC-C6-C8	95000 150000	< 0.010 < 0.010		< 0.010 < 0.010	< 0.010 < 0.010	<1.0 <1.0	< 0.010 ×0.010	<1.0	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	<0.010 <0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010 < 0.010	<0.010 <0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010 16	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010
EC>C6-C8 EC>C8-C10 EC>C10-C12	150000 14000 21000 25000	51 43		< 0.10 8.4		<1.0 8.3	<0.010 <0.10 6.6	<1.0	< 0.10 < 0.10				11 850 1500	6.5 69 130	3.1 180 310	9.8	< 0.010 < 0.10 11													< 0.010 1200 2200	16 840 1500	< 0.010 < 0.10 < 0.10		74 180
EOC10-C12 EOC12-C16 EOC16-C21	450000	19 19	- :	10 3.7	15 22 14	15 <1.0	12 <0.10	15 <1.0	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10	2100 1200	170	330 190	13 4.5	18 29	< 0.10 < 0.10	<0.10 <0.10 <0.10	< 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10	<0.10 <0.10	< 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10 < 0.10	2400 1500	1500 900	< 0.10 < 0.10 < 0.10	5.6 < 0.10	310 310
EC-C21-C3S EC-C35-C44 Total aliphatics	450000 450000 NA	48 < 0.10 180		37 < 0.10 60	150 < 0.10 200	140 <1.0 160	30 <0.10 47	<1.0 110	<0.10 <0.10 <1.0	550 < 0.10 550	490 < 0.10 490	<0.10 <0.10 <1.0	1300 89 7100	140 < 0.10 630	270 < 0.10 1300	< 0.10 160	160 < 0.10 220	<0.10 <0.10 <1.0	< 0.10 < 0.10 < 1.0	< 0.10 < 1.0	< 0.10 < 0.10 < 1.0	< 0.10 < 0.10 < 1.0	<0.10 <0.10 <1.0	< 0.10 < 1.0	< 0.10 260	130 < 0.10 130	170 < 0.10 170	< 0.10 < 0.10 < 1.0	< 0.10 1100	1300 460 9100	1000 390 6200	130 < 0.10 130	24 < 0.10 35	880 28 1800
Aromatics EC 5-7 (benzene)	76000	< 0.010		< 0.010	< 0.010	<1.0	<0.010	<1.0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	22	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	59	62	< 0.010	< 0.010	< 0.010
EC-C7-C8 (toluene) EC-C8-C10 EC-C10-C12	87000 7200 9200	< 0.010 4.1 < 0.10	- :	< 0.010 < 0.10 5.7	< 0.010 5.1 100	7 62	<0.010 <0.10 23	<1.0 <1.0 6.4	< 0.010 < 0.10 < 0.10	< 0.010 < 0.10 < 0.10	< 0.010 12	<0.010 <0.10 <0.10	190 2400	17 180 1800	74 520 3600	< 0.010 < 0.10	< 0.010 < 0.10 18	< 0.010 < 0.10 < 0.10	< 0.010 < 0.10 < 0.10	< 0.010 < 0.10	< 0.010 < 0.10	< 0.010 < 0.10 < 0.10	< 0.010 < 0.10 < 0.10	< 0.010 < 0.10 < 0.10	< 0.010 < 0.10 < 0.10	<0.010 <0.10 <0.10	< 0.010 < 0.10 < 0.10	<0.010 <0.10 <0.10	< 0.010 < 0.10 < 0.10	120 4300 31000	120 3100	< 0.010 < 0.10 36	< 0.010 < 0.10 14	5.9 110 2600
EOC12-C16 EOC16-C1 EOC21-C35	10000 7600	< 0.10 < 0.10		5.2 20	220 130 240	86 41	42 28	6.5 7.6	< 0.10 < 0.10	< 0.10 < 0.10	33 70	<0.10 <0.10 <0.10	37000 19000	2700 1300	5500 2600	130 86	430 280	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 9	< 0.10 < 0.10	< 0.10 < 0.10 59	< 0.10 < 0.10	< 0.10 7.5	49000 26000	30000 16000	180		5700 3000
EC-C35-C44	7800 7800	86 7.3 98	- :	79 5.1	240 4.7	190 <1.0	53 <0.10	11 <1.0	< 0.10 < 0.10	1300	110 < 0.10	<0.10 <0.10	20000 1600	1400 93 7500	2600 190	140 < 0.10	330 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10 < 1.0	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10 < 1.0	< 0.10 < 0.10	< 0.10 < 0.10	110 7.3	18 6.4	59 5	< 0.10 < 0.10	510 < 0.10	29000 2200 140000	18000 1300	490 < 0.10 860	52 < 0.10	2900 260 15000
Total Aliphatics and Aromatics		280		170	900	540	190	32 150	<1.0 <2.0	1900	740	< 2.0	110000	7500 8100	16000	530	1300	<1.0 <2.0	< 1.0 < 2.0	<1.0 <2.0	< 2.0 < 2.0	< 1.0 < 2.0	<1.0 <2.0	<1.0 <2.0	190 390	24 160	230	< 1.0 < 2.0	1600	150000	94000	990	190	16000
TPH >C6-C8 TPH >C8-C10 TPH >C10-C12		:		- :	÷			- :	:	÷			-		- :	- 1	- :	- :	- :		- :	- :	÷	- :	- :	- :	÷	-	- :			- ;	-	
TPH >C12-C16 TPH >C16-C21 TPH >C21-C25		- :	-	1			-	-	-	÷			-		-	-	-	-	-	-	- :	-	- 1	- :	-	- :		-	•	- :			-	
TPH >C25-C35 TPH >C35-C40						-							-	-						-	-	-		-			-	-	-				-	
Total TPH >C6-C40 Total TPH >C10-C40		÷	÷	- :	- :	- :		- :	÷	÷	- :	- :	- :	- :	:	- :	- :	- :	- :	÷		- :	÷	÷	- :	÷	÷	÷	- :	÷	- :	÷	- :	
BTEX & MTBE Benzene	mg/kg	0.0012		< 0.0010	0.017	-	0.34	-	< 0.0010	< 0.0010	0.13	0.85	0.26	190	720	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.026		0.019	0.13	0.013	0.035
Toluene Ethylbenzene	87000 17000 170000	0.0019 0.046 0.17		0.0033 0.0032	0.0049		0.16 2.6 0.14		< 0.0010 < 0.0010	< 0.0010 < 0.0010	0.0021	0.012	0.035	74 290	250 590		< 0.0010 < 0.0010	< 0.0010 < 0.0010			< 0.0010 < 0.0010	< 0.0010 < 0.0010		< 0.0010 < 0.0010		0.0044 0.011	0.0044 0.0082	< 0.0010 < 0.0010	0.011 0.018	760 1400	0.015 0.051 0.007		0.0044 < 0.0010	0.028
m&p-xylene o-xylene MTRF	170000 17000 NA	0.17 0.052 < 0.0010		0.0072 0.0039 < 0.0010			0.14 0.07 < 0.0010		< 0.0010 < 0.0010	< 0.0010 < 0.0010 < 0.0010	0.013 0.007 < 0.0010	0.053 0.028 < 0.0010	0.19	6.5 c 0.0010	8.3 < 0.0010	< 0.0010	< 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010 < 0.0010	< 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010 < 0.0010	< 0.0010 < 0.0010	0.015	0.007	0.0072 0.0045 < 0.0010		0.0079 0.0031 < 0.0010	92	0.005		< 0.0010	0.019 0.011 < 0.0010
Polycyclic Aromatic Hydrocarbons Naphthalene	mg/kg 1200	0.53		0.6	75	13	11	1.3	1.5	2.5	2	2.2	21	2600	5100	1.1	0.52	0.059	< 0.010	< 0.010	0.27	0.12	< 0.010	< 0.010	1	1.1	< 0.010	4.6	13	7100	< 0.010	< 0.010	1.9	2.4
Acenaphthylene Acenaphthene	29000 29000	0.41	-	0.66 0.74	51 92	11 29	6.5	1.3 2.3	0.37 0.64	0.65 1.1	0.38 0.83	0.38 0.57	11 13	2600 600	4800 1300	64 20	23 7.2	0.047 0.046	< 0.010 < 0.010		0.075	0.17 0.083	< 0.010 < 0.010	< 0.010 < 0.010		4.1 1.3	< 0.010 < 0.010		4.9 1.6	11000 2800	< 0.010 < 0.010	< 0.010 < 0.010	13	0.79
Fluorene Phenanthrene Anthracene	20000 6200 150000	0.43 1.3 0.25		0.67 2.3 0.47	74 87 29	13 31 5	8.2 19 3.3	1.5 4.8 0.69	0.31 1.8 0.23	0.67 3.1 0.36	0.41 2.3 0.29	0.29 1.4 0.25	14 48 5.1	840 1600 290	1800 3500 610	190 21	65 6.8	0.033 0.21 0.082	<0.010 <0.010 <0.010	< 0.010 < 0.010	0.079 0.31 0.057	0.82	< 0.010 0.061 0.027	< 0.010 < 0.010	2.2 5.4 0.95	5.5 0.99	< 0.010 < 0.010 < 0.010	1.5 4 0.77	1.6 1.6 3 0.55	8700 1300	< 0.010 < 0.010	<0.010 <0.010 <0.010	1.6 3.1 0.48	1.1 2.4 0.38
Fluoranthene Pyrene	6300 15000	1.2		1.9 2.3	82 110	17 24	11 15	2.6 3.6	1.8 2.4	2.7 3.8	2.1	1.8 2.1	25 36	760 1100	1600 2300	99 140	34 49	0.59	0.1	0.068	0.25	0.73	0.09	< 0.010 < 0.010	4.2	3.9 4.9	< 0.010 < 0.010	3.6 4	2.4	3900 5700	< 0.010 < 0.010	0.097	2.2	1.4
Benz(a)anthracene Chrysene Benzo(b)fluoranthene	49 93 18	0.39 0.32 0.41		0.52 0.52 0.59	13 14	3.1 3.4 4.4	2.2 2.1 2.7	0.52 0.47 0.72	0.4 0.35 0.65	0.51 0.53 0.92	0.56 0.68 0.85	0.52 0.59 0.97	3.6 3.9 5.1	86 87	230 210 260	15 16	4.9 5.5 6.4	0.27 0.23 0.29	0.2 0.2 <0.010	< 0.010 < 0.010 < 0.010	0.08 0.064 0.12	0.11 0.11 0.18	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010 < 0.010	0.61 0.55 0.93	1.1 1 1.7	< 0.010 < 0.010 < 0.010	1.4 1.2 1.6	0.85 0.76 1.1	520 550 630	< 0.010 < 0.010 < 0.010	<0.010 <0.010 <0.010	17 0.21 0.43	0.33 0.27 0.44
Benzo(k)fluoranthene Benzo(a)pyrene	370 11	0.2 0.54 < 0.010		0.35 0.89 0.53	5.1 24	13 6 3.5	0.72 3.6	0.21 0.78 0.64	0.17	0.19 0.98	0.27	0.3	1.5 6.7	37 190	69 420	5.7 25	2.1 8.7	0.11	< 0.010 < 0.010	< 0.010 < 0.010	0.049	0.034 0.24 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	0.31	0.53 1.7	< 0.010 < 0.010 < 0.010	0.59 1.7	0.38	200 930	< 0.010 < 0.010	<0.010 <0.010 <0.010	0.16 0.5 0.26	0.12 0.54 < 0.010
Indeno[123cd]pyrene Dibenz(a,h)anthracene Benzo(ghi)perylene	150 1.1	< 0.010 < 0.010 < 0.010		0.53 0.14 0.7	13 0.58 20	0.16	0.15	0.17	< 0.010 < 0.010	0.58 0.066	0.61 0.079 0.75	0.78 0.088 0.93	4.1 0.25 6.3	87 3.3 180	230 5.9 230	17 0.72	5.5 0.29 8.4	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	0.99	< 0.010	1.3 0.21	0.92 0.13 0.81	510 23 810	< 0.010 < 0.010 < 0.010	<0.010 <0.010 <0.010	0.26 0.02 0.4	< 0.010 < 0.010 < 0.010
Coronene PAH 16 Total	1400 NA NA	7.4		. 14	710	5.1 < 0.010	3.1 110	0.87 < 0.010	< 0.010 - 11	- 20		0.95 - 14	200	11000	23000	25 - 720	250	< 0.010 - 2.8	< 0.010 - 0.71	< 0.010 - < 0.20	< 0.010 - 1.8	< 0.010 - 3.8	< 0.010 - 0.28	< 0.010 - < 0.20	< 0.010 - 26	1.2 32	< 0.010 < 0.010	1.1 ·	36	49000	< 0.20	0.22	. 33	14
Total Of 17 PAH's PCB's	mg/kg	-	-	-	-	170	-	22	-		-	-	-		-		·	-			-				-	-	< 0.20	-			-	-	-	-
PCB 81 PCB 77 PCB 105			< 0.0010 < 0.0010 < 0.0010		<0.0010 <0.0010 <0.0010	1		- 1						1		< 0.0010 < 0.0010 < 0.0010	< 0.0010 < 0.0010 < 0.0010					- 1	1	- 1					-	< 0.0010 < 0.0010	<0.0010 <0.0010 <0.0010	< 0.0010 < 0.0010 < 0.0010	1	===
PCB 114 PCB 118		- :	< 0.0010 < 0.0010	-	< 0.0010 < 0.0010	- :	-	- :	- :	÷	- :	-		- :		< 0.0010 < 0.0010	< 0.0010 < 0.0010	- :	÷	-	-	- :	÷		- :	÷	÷	÷	-:-	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	-	
PCB 123 PCB 126 PCB 156		- :	< 0.0010 < 0.0010 < 0.0010	- :	< 0.0010 < 0.0010 < 0.0010			- :	- :		- 1				- 1	< 0.0010 < 0.0010 < 0.0010	< 0.0010 < 0.0010	- :						- 1	- :			- 1		< 0.0010 < 0.0010	< 0.0010 < 0.0010 < 0.0010	< 0.0010 < 0.0010		
PCB 157			< 0.0010		< 0.0010								-			< 0.0010	< 0.0010										- 1			< 0.0010	< 0.0010	< 0.0010	-	===
PCB 167 PCB 169 PCB 189		- :	< 0.0010 < 0.0010 < 0.0010	-	< 0.0010 < 0.0010 < 0.0010 < 0.0010	-	-		-	-	-			-		< 0.0010 < 0.0010 < 0.0010	< 0.0010 < 0.0010 < 0.0010	-						-	-	-				< 0.0010 < 0.0010	< 0.0010 < 0.0010 < 0.0010	< 0.0010 < 0.0010	-	
Total PCBs (12 Congeners) Inorganics Fraction of Organic Carbon	NA.	0.02	< 0.0010	0.009	< 0.0010		0.012	- 1	0.051	0.049	0.042	0.024	0.029	0.029	0.042	< 0.0010		0.058	0.21	0.0076	0.25	< 0.0010	0.0096	0.037	0.02	0.019	0.015	0.047	0.058	< 0.0010	0.0010	0.0010	0.018	0.015
Organic Carbon Organic Matter Moisture	NA NA NA	12	13	20	- 15	16	15	18	17	23	19	14	18	26	19	19	16	15	61	20	46	21	18	24	17	27	23	27	25	32	27	19	14	14
Free Cyanide Sulphate (2:1 Water Soluble) as SO4 mg/l	24 NA	< 0.50 1300	-	< 0.50 800	< 0.50 240	-	< 0.50 < 20	-	< 0.50 330	< 0.50 400	< 0.50 350	< 0.50 450	< 0.50 360	< 0.50 100	< 0.50 120	< 0.50 < 10	< 0.50 35	< 0.50 120	< 0.50 49	< 0.50 60	< 0.50 130	< 0.50 11	< 0.50 51	< 0.50 SS	< 0.50 540	< 0.50 260	- :	< 0.50 920	< 0.50 840	< 0.50 31	< 0.50 < 10	< 0.50 120	< 0.50 140	< 0.50 1000
pH (pH Units) Chloride (Extractable) Potassium (Totali)	pH (<5, ×9)	320 510		10.9 300 820	8.9 140 740	8.5	8.6 110 750	9	8.1 640 320	8.1 500 150	8 400 320	8.2 420 190	8.1 520 230	8.5 58 240	8.5 52 260	8.6 < 20 370	8.3 700 360	7.9 58 830	7.5 34 280	7.6 < 20 460	8.1 96 710	8.6 < 20 200	7.6 < 20 810	7.6 < 20 550	360 580	9.2 840 890	9.1	8.2 440 1400	8.2 360 890	8.3 180 2000	9.5 20 600	8.5 26 1200	8.6 66 520	9.5 360 690
Asbestos Screening Asbestos Identification	Present / Absent	No Asbestos		No Asbestos	No Asbestos		No Asbestos Detected		No Asbestos Detected	No Asbestos	No Asbestos	No Asbestos	No Asbestos	No Asbestos	No Asbestos Detected	No Asbestos Detected	No Asbestos	No Asbestos	No Asbestos	No Asbestos	No Asbestos Detected	No Asbestos	No Asbestos Detected	No Asbestos	No Asbestos	No Asbestos		No Asbestos			No Asbestos Detected			No Asbestos Detected
ACM Type	NA NA	Detected -	-	Detected -	Detected -		Detected -		Detected -	Detected -	Detected -	Detected	Detected -	Detected -	Detected	Detected	Detected	Detected -	Detected -	Detected -	Detected -	Detected -	Detected -	Detected -	Detected -	Detected -	-	Detected -	Detected -	Detected -	Detected -	Detected -	Detected -	Detected -
Asbestos by Gravimetry Total Asbestos GACs are the LQM S4ULs with 1% SOM w	NA NA	-						-					-										- 1	-:-			- 1	- 1	-					
GRUS are the LUM S4ULS with 1% SOM w	will the exception of																																	

GACs are the LOM S4LILs with 1% SOM with the exception of those listed below:

1. The GAC for load is the C4SL derived using a Low Level of Toxicological Concern (LTC) of 3 Sugiet. blood lead.

2. Free Cyanide - WYG derived using CLEA. See WYG Technical Memorandum: Derivation of a SSV.

Part																																			
Column C	Contaminant GAC	Public Open Space - Park (1% SOM)	BH666	BH666	BH666	BH666	BH666	BH667	BH667	BH667	BH667	BH667	BH667	BH667	BH668	BH668	BH668	BH668	BH668	BH668	BH668	BH668	BH668	BH669	BH669	BH669	BH669	BH669	8H669	BH670	BH670	BH670	BH670	BH670	8H670
Second Second			500	9.00	10.00	11.00	13.00	05	30	40	60	80	11.0	13.0	20	7.0	80	90	10.0	11.0	12.0	130	140	50	70	90	11.0	12.0	185	10	30	50	60	70	10.0
	Heavy Metals Inorganic Arsenic	mg/kg		-		-	3.1	13	6.7	-	15	-		-			9.9	4.2	3.6		-	3	4.8	1.4	10	20	14	7.1	3.3	4.1		-			_
The column	Cadmium Boron	532 46000	0.37 2.4	- :	0.12 1.1	- 1	0.16 1.3	0.14	0.3 10	- :	0.17 4.1			-	< 0.10 1.8		0.18 1.8	< 0.10 2	< 0.10 2.7		- 1	0.13 2.5	< 0.10 < 0.40	7.4	0.14 11	0.31 4.2	0.44 5.5	0.74 3.4	< 0.10 0.47	0.16 0.94	< 0.10 1.2		- 1	1.7	
State Stat	Copper	44000	79 < 0.10		86		33	88	99		100				67		160	41	53				13	31	10	83	81 0.19	42	16	38 0.14	56			270	
State Stat	Nickel Lead		41 53		26	- 1	14 23	56 33	57		70 38	-		- :	29 44	- :	130	21	20	- :		50	12	18 28	6.9	120	400		14	20	22 58		- :	120 190	
State Stat	Selenium Zinc	1800 170000	< 0.20 190	- :	< 0.20 130	- 1	< 0.20 120	1.4 260	0.57 200	- :	1.6 330	- :	- :	- :	< 0.20 220	- :	< 0.20 480	< 0.20 290	< 0.20 340	-:-	- :	< 0.20 240	< 0.20 31	< 0.20 110	< 0.20 35	0.22 270	0.21 560	< 0.20 1100	< 0.20 70	< 0.20 150	< 0.20 92	- :	-	0.3 370	-:-
March Marc		220	31 < 0.50	- :	20 < 0.50	- 1	11 < 0.50	54 < 0.50	27 < 0.50		67 < 0.50			- :	15 < 0.50	- :	38 < 0.50	20 < 0.50	20 < 0.50			15 < 0.50	8.6 < 0.50	11 <0.50	14 < 0.50	< 0.50		26 < 0.50	11 < 0.50	< 0.50	20 <0.50	- :	- :	× 0.50	
Part	Magnesium (Water Soluble)		20		< 20		< 20	< 20	40		60	-			< 20		< 20	< 20				< 20	< 20	< 20	< 20	< 20	< 20		< 20 16000		< 20	-		-	
Part	Beryllium Vanadium		<1.0 27		<1.0 17				< 0.5 46		0.9				< 1.0 7.1		<1.0 27	< 1.0 12	< 1.0 10					<1.0 6.6	< 1.0 20	< 1.0	< 1.0 33	1.8 17	<1.0 7.8		<1.0 20		- 1		
Column	Organics Phenol	mg/kg 440		< 0.020	< 0.020	< 0.020	< 0.020		< 0.020		< 0.020	0.44	0.11	< 0.020		-				-				-		-	-	- i				< 0.020	< 0.020	-	< 0.020
Column	Cresols		- :	< 0.020 < 0.020	< 0.020 < 0.020	< 0.020 < 0.020	< 0.020 1.3	- :	< 0.020 < 0.020	- :	< 0.020 < 0.020	< 0.020 2.5	< 0.020 0.72	< 0.020 0.15		- :	- :	- :	÷		÷	- :	÷	-	- :	÷	- :	- :	- :	:	÷	< 0.020 1.4	< 0.020 0.2	- :	< 0.020 < 0.020
Column C			- :		< 0.020 < 0.020	< 0.020 < 0.020	< 0.020 < 0.020	- :	< 0.020 < 0.020	- :	< 0.020 < 0.020	< 0.020 < 0.020	< 0.020 < 0.020	< 0.020 < 0.020	- :	- :			- :			- :	- :		- 1		- 1	- 1	- :	- :	- :	0.2 < 0.020	< 0.020	- 1	< 0.020
Property Property			< 0.10	< 0.10	< 0.10	< 0.10	1.3	< 0.10	< 0.10	- :	< 0.10			0.15	< 0.10	- :	0.19	- 1	- :		- :	- :	- :	< 0.10	0.24	< 0.10	1.8	< 0.10	0.73	< 0.10	< 0.10		0.2	< 0.10	< 0.10
Section Sect	Aliphatics	95000	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	<10	<10	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010		< 0.010	< 0.010	< 0.010		< 0.010
Column	EC+C6-C8 EC+C8-C10	150000 14000		< 0.010 < 0.10	< 0.010	< 0.010	< 0.010	< 0.010	6	< 0.010		< 0.010 < 0.10	< 0.010 < 0.10	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.10		<1.0 <1.0	< 0.010 < 0.10	< 0.010 18	< 0.010 < 0.10	< 0.010	< 0.010	< 0.010		< 0.010		< 0.010	< 0.010 < 0.10	< 0.010		< 0.010
*** **********************************	EC>C10-C12 EC>C12-C16	21000 25000	19 24	8.3 20	20 5.5	11 36	10 11	< 0.10 < 0.10	9.2 34	< 0.10 < 0.10		< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	<1.0 <1.0	<1.0 <1.0	< 0.10 < 0.10	88 140	< 0.10 < 0.10	< 0.10 8	< 0.10 20	< 0.10 < 0.10	-	< 0.10 < 0.10		< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10		< 0.10 < 0.10
The column	EC>C16-C21	450000 450000		< 0.10 330	< 0.10 150	5.5 260	< 0.10 480	< 0.10 < 0.10	70 890	39 1000		< 0.10	< 0.10	< 0.10 210	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 510	< 0.10 36	< 0.10 < 0.10				31 710	< 0.10 260	< 0.10 650	560 830	< 0.10 < 0.10		< 0.10 < 0.10		< 0.10 180	7.6 600	< 0.10 23		< 0.10 < 0.10
Column	Total aliphatics	NA NA	350	360	180	320	500	<1.0	1000	1100		220	330		<0.10 <1.0	<1.0	510	86	< 1.0	< 1.0 < 5.0	< 5.0	300	990	260	660	1400	< 1.0	-	< 1.0		180	600	23		< 1.0
Column	EC S-7 (benzene)		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		<1.0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	< 0.010		< 0.010	< 0.010	< 0.010		< 0.010
Column	EC>C8-C10 EC>C10-C12		< 0.10 130	< 0.10 15	< 0.10 24	< 0.10 30	< 0.10 8.5	< 0.10 < 0.10	< 0.10 < 0.10				< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10		<1.0 <1.0				< 0.10 < 0.10	< 0.10 < 0.10			< 0.10 < 0.10		< 0.10 < 0.10		< 0.10 < 0.10		< 0.10 < 0.10
Mathematical Control of the contro	EC>C12-C16 EC>C16-C21	10000 7600	350 190	44 45	5.9 9.9	73	16	< 0.10 < 0.10	< 0.10 48	< 0.10		< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10		< 0.10 < 0.10	< 0.10 < 0.10	<1.0 <1.0	<1.0 <1.0	100	940	55 47	17 200	33	< 0.10 29	-	< 0.10 < 0.10		< 0.10 26	< 0.10 SS	< 0.10 < 0.10		< 0.10 < 0.10
Part	EC>C21-C35 EC>C35-C44	7800 7800	360 < 0.10	140 9.1	17 5.5	870	410 21	< 0.10 < 0.10	440 < 0.10		- 1	120 < 0.10	48 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	210 < 0.10			<1.0 <1.0	<1.0 <1.0	62 < 0.10	810 45	330 < 0.10	1300 < 0.10	580 18	< 0.10 < 0.10		< 0.10 < 0.10			160 < 0.10	30 < 0.10		< 0.10 < 0.10
Control Cont	Total Aliphatics and Aromatics				62 240		530 1000	<1.0 <2.0	480 1500			120 340		<1.0 210	< 1.0 < 2.0	< 1.0 < 2.0	210 730			< 5.0 < 10		270 570					29 29	-				210 820	30 53		
Property state	TPH >C6-C8 TPH >C8-C10		- :	- :	- :	- 1	-	- :	- 1	- :		- :	- :	- :	- :	- :	- :	- 1	- :		- :	- :	- :	-:-	- :	- :	- 1	- :	÷	<1.0 <1.0	- :	- :	- :	< 1.0 < 1.0	_:_
Property Property			-									-				-						-						-		23 29			-		
Part	TPH >C21-C25		- :		- :		-	- :	- 1			- 1		- :	- :	- :	- :		- :	- 1	-	- :	- :	- :	-:-		-	- 1	- :		- :	- :		< 1.0 < 1.0	
Property column			- :		- :	- 1	- :					-		- :		- :	-		- :		- :	- :		- :			- :	-	- :	6.4 150			- :	< 1.0 < 10	
March Marc	Total TPH >C5-C10		- :	- :	- :		-	- :	- :	- :	-	-	- :	:	- :	- :	-		•			- :		- :	- :			280 < 10	-	-	•	- :	•		
Martine Mart	Benzene	mg/kg 90	0.041		0.0065		0.011								0.0054		0.0045	0.019	0.062			0.064	0.11	0.083	0.02	0.055	0.012	< 0.0010	0.01		< 0.0010			-	
Property of the property of	Ethylbenzene m&n,wiene	17000 17000					0.017									-							0.1		0.033	0.016	0.083	0.17	0.2		< 0.0010 < 0.0010		-		
Marketing Market	o-xylene	17000 NA	0.04 < 0.0010		0.0014										0.012	- :	0.0046	0.019	0.0046			0.0082	< 0.0010 < 0.0010	0.021	0.019	0.012 < 0.0010	0.014 < 0.0010	0.13 <0.0010		- :	< 0.0010 < 0.0010			- 1	
Column C		1200		2.9	1.8	1.1	1.2	4.8			-			4.8	0.16	0.48									2.5	0.83	8.6	0.51		0.83	0.21	0.17			< 0.010
Monthering (May 14) 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Acenaphthene		8.2 2.6	9.3 3.9	2 1.1	0.76 0.23	0.65 0.19	0.87 0.26	0.71	0.95 0.34	-	0.73 0.24	0.65 0.28	1 1.2	0.056 0.066	0.13 0.2		- 1	÷		- :	- :	- :	4.1 1.3	6.8 2	0.69	12 100	0.36 0.62		0.75 9	0.1 0.17	0.35 0.42	0.16 0.12	1.4 0.28	< 0.010 < 0.010
Monthering (May 14) 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Phenanthrene	20000 6200	12	16	2.7	0.56	0.16	0.24	1.5	0.74		0.29	0.29		0.17	0.29	0.11	- 1	- :		- :	- :	- :	4.9	24	1.4	100	1.7	5.3	7.9 53	0.14	2	0.65	8.6	0.28
Column C	Fluoranthene Perene	6300 15000	6.6	8.1 12	1.5	0.46	0.36	0.1	2.3	0.8		0.81	0.32		13	0.78	0.13							2.9	4.5 16 22	1.3	59 80	12	3 41	81 62	1.1	3 27	1.1	14 12	0.72
Proceedings 18		49	1.8	1.2	0.4	0.21	0.16 0.11	< 0.010 < 0.010	1.1	0.3		0.19	0.075	0.73	1.2	0.18	< 0.010 < 0.010		- :	- 1	-	- :	- :	0.59	3 2.9	0.46	10	0.19	0.48	34 30	0.51 0.44	1.1	0.49	6.9	0.29
Processor 18	Benzo(k)fluoranthene		0.76	0.51	0.4 0.22	0.33	0.19	< 0.010 < 0.010	1.3 0.47	0.15		0.19	0.041	0.43	0.76	0.098	< 0.010 < 0.010							0.22	3.6 1.2	0.8	13 4	0.095	0.27	13	0.34	0.42	0.16	3.4	0.13
Mode Mode Mode A.	Benzo(a)pyrene Indeno(123cd)pyrene		4.7 3.2	2.2 1.4	0.43	0.26 < 0.010	0.23	< 0.010 < 0.010	0.93			0.37 0.21	0.19 0.13		1.8 1.1				- :	-:-	-	- :	- :		4.9 3.4	0.77	19 13			31 18	0.81 0.56			8.4 5.7	0.36 0.27
March Marc	Benzo(ghi)perylene		2.1 6.6	0.13 2.2	0.22 0.41	< 0.010 < 0.010	0.072 0.16	< 0.010 < 0.010	0.16 0.42	0.13	-	0.055 0.17	0.044 0.14	0.14	0.27 1.4	0.14	< 0.010 < 0.010		- :					0.052	0.15 3.7	0.11		0.062	0.14 1.1	3.6 15	0.1	0.14 0.73	0.1		0.06
Fig. Fig.	PAH 16 Total Total Of 17 PAH's	NA NA	72		15		4.8	6.6	25		8.7		6	21	14		0.39							26	110	11	510	8.5	27	410	7.8			89	
PAISE PAIS	PC8's PC8 81	mg/kg	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	-	< 0.0010	< 0.0010						< 0.0010	< 0.0010	-			-			-	< 0.0010	< 0.0010	< 0.0010		< 0.0010						
PAISE PAIS	PCB 105		< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010										< 0.0010		- 1					-	< 0.0010	< 0.0010	< 0.0010		< 0.0010		-			-	
## 152.50 1.00	PCB 114 PCB 118		< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	- :	< 0.0010 < 0.0010	< 0.0010 < 0.0010			- :	- :	-:-	< 0.0010 < 0.0010			- :	-:-		- :	- :		< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010		< 0.0010 < 0.0010	- :	- :	- :	- :		_:-
## 15/15	PCB 123 PCB 126		< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010		< 0.0010 < 0.0010	< 0.0010 < 0.0010	_					< 0.0010 < 0.0010	< 0.0010 < 0.0010		- :						< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	- 1	< 0.0010 < 0.0010	- :			- :		==
## 1.15 1.40	PCB 157		< 0.0010	< 0.0010 < 0.0010	< 0.0010	< 0.0010	< 0.0010		< 0.0010	< 0.0010	-					< 0.0010	< 0.0010	-							< 0.0010 < 0.0010	< 0.0010 < 0.0010 < 0.0010	< 0.0010 < 0.0010		< 0.0010						=
Marie Mari			< 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010	< 0.0010 < 0.0010		< 0.0010 < 0.0010	< 0.0010 < 0.0010	-		-						- :	-		-		-	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	-	< 0.0010 < 0.0010		-		-	-	==
Property March Column			< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010		< 0.0010	< 0.0010						< 0.0010	1,000																		
First Companies	Fraction of Organic Carbon Organic Matter	NA NA	0.023	0.0072	0.014	0.025	0.024	0.007	0.05		0.041				0.029		0.035	0.017	0.024			0.017	0.006	0.069		0.098	-	0.012	< 0.0010		0.018	0.019	0.0088		< 0.0010
Charles (Internable)		NA 24	22 < 0.50	16	17 < 0.50	31	40 < 0.50	16	34	24	36	19	10	28	< 0.50	36	20 < 0.50	25 < 0.50	19 < 0.50	24	26	25 < 0.50	18 < 0.50	29 < 0.50	30 < 0.50	17 <0.50	23 < 0.50	23 < 0.50	16 < 0.50	15 < 0.50	18 <0.50	19	6.2	7.4 < 0.50	18
Principaria (Helips 100	pH (pH Units)	pH (<5, ×9)	8.7 460	8.5	210 8.7	8.8	8.4 600	81 8.3	7.8 130		8.2		- :	- :		-		8.5 4.30	8.6 230	- :	-	8.6 600	10.4 510		260 8.4	8.5 240	8.4 360	8.7	9	740 8.2		8.1	8.4	9.4	8.9
Advisors interficient Present / School Schoo	Potassium (Total)		1600		523		410	1800	450		410						370	420	400			350	350	780		2100	2000		500		580				
ACM Type Ms	Asbestos Identification		No Asbestos Detected	-	No Asbestos Detected	-	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	- 1	No Asbestos Detected	-	-	-	No Asbestos Detected	-	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	-	-	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	-	No Asbestos Detected	-	-	-	-
Total Address	Asbestos by Gravimetry										- :			- :												Free Fibres 0.001									===
GMAs are DLM sAULs with 10, SDM with the exception of the	GACs are the LQM S4ULs with 1% SQM	M with the exception of		1 -		-	-	<u> </u>		1 - 1	-	1	-		-		1	- 1	-	-	1 -		- 1	-		0.001		-	-	-	-		-	-	

GACs are the LOM S4ULs with 1% SOM with the exception of those island below.

1. The GAC for lead is the C4SL derived using a Low Level of Toxicological Concern (LLTC) of 3.5xg/clt. blood lead.

2. Free Cyaride - WYG derived using CLEA. See WYG Technical Memorandum: Derivation of a SSV.

Part																																			
Part	Contaminant GAC	Public Open Space - Park (1% SOM)	BH671	BH671	BH671	BH671	BH671	BH672	BH672	BH672	BH672	BH673	BH673	BH673	BH673	BH673	BH674	BH674	BH674	BH674	BH675	BH675	8H675	BH675	BH675	BH676	BH676	BH676	BH676	BH676	BH676	BH676	BH677	BH677	BH677
Column	Heavy Metals	Depth (m)	1.0	2.0	3.0	4.0	5.0	1.0	2.0	3.0	6.0	1.0	3.0	4.0	5.0	6.0	2.0	3.0	4.0	5.0	1.0	4.0	7.0	9.0	10.0	1.0	2.0	4.0	6.0	7.0	8.0	12.0	0.5	3.0	6.0
	Inorganic Arsenic Cadmium	170 532	< 1.0 < 0.10	< 1.0 < 0.10	2.5 < 0.10	< 1.0 < 0.10	- : -	4 0.13	- :	- :	- :	6.9 0.19	-	- :	- :	- : -	8.4 0.17	7.6 0.36	- :		< 0.5 < 0.10	3.8 < 0.10	19 1.3	5.1 0.46	- :	36 < 0.10			- :			- :	7.2 0.19	3.7 0.12	2.5
	Boron	46000 33000			0.61	< 0.40	-			- :			-		- :	- :	2	1.8										-				- :			
March Marc	Copper	44000 240	4.3		12 <0.10	8 < 0.10	- :		- :	- :	- :		- :	- :	- :	- :			- :	-:-		40	91 0.37	11	- :	48 < 0.05	- :	- :	- :	- :	- :	- :	21 < 0.05	16 0.06	15
*** *** *** *** *** *** *** *** *** **			4.2	11		7.7	- :		- :	- :	- :	21	- :	- :	- :	- :	30		- :	-:-	< 0.50	13	71	7.4	- :	18 16	- :	- :	- :	- :	- :	- :	17	12	10 79
Part	Selenium	1800 170000	< 0.20 7.3	< 0.20	< 0.20 34	< 0.20 18	- :	< 0.20	- :	- :	- :	0.48	- :	- :	-:-	- :	0.55	0.36		-:-	< 0.25	0.29	1.3	0.39	- :	0.37	- :	- :	- :	- :	- :	- :	42	0.28	< 0.25 83
Part	Chromium (Trivalent)	220	2.6	11	15	5.1		17	-		-		-	-		-	25	39	-		<1.0	8.9	50	6.1	-	47	-	-		-	-	-	11	10	7.6
Part	Manganese	110	64	130	170		-					290	-	-	-	-	510	220	-		1.7	170	1100	71	-	430	-			-			770	150	100
Part	Iron (Available)		5900	5100	12000	<10		de				9600					28000	64000			12000	10000	14000	9000		26000							140000	37000 r 0.5	76000
The column	Vanadium	malke	< 5.0	11	13	< 5.0		10			-	14		-		-	22	10			< 0.5	8.7	42	6.3		140							6.9	7.9	5.5
Part	Phenol	440	-	-	-	-	-	-	-		-		-	-	-	-		-	< 0.020	< 0.020	-		-	0.1	< 0.020	-	< 0.020	< 0.020	< 0.020	0.093	< 0.020	< 0.020	-	-	< 0.020
Part	Cresols				- :		- :	- :	- :	- :	- :	- :	- :	- :		- :	0.16	- :	< 0.020	< 0.020	- :	- :	- :	< 0.020	< 0.020		< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	- :	-	< 0.020
Section Sect	1-Naphthol Trimethylohennis		- :	- :	- :	-	- :	- :	- :	- :	- :	- :	- :	- :	-:-	- :	< 0.020	- :	< 0.020	< 0.020	- :	- :	- :	< 0.020	< 0.020		< 0.020	< 0.020	< 0.020 < 0.020	< 0.020 < 0.020	< 0.020 < 0.020	< 0.020 < 0.020	- :	- :	< 0.020 < 0.020
Part	Total Phenois	matte	-				-	< 0.10			-	< 0.10		-			1.4	9.3	< 0.10	0.71	0.71	2.2	0.82	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.2	< 0.10	< 0.10	< 0.10	< 0.10
	Aliphatics		< 0.010	< 0.010	< 0.010		×10		<0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	<0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	<0.010	24	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	<0.010	< 0.010
Property of the column		150000			< 0.010		<1.0 <1.0		< 0.010				79 2200			< 0.010					< 0.010	< 0.010 2%n	< 0.010 38	< 0.010 < 0.10	< 0.010	< 0.010	< 0.010 < 0.10	< 0.010 10	< 0.010 6.8	< 0.010	< 0.010		< 0.010 < 0.10	< 0.010 20	< 0.010
Column	EC:C10-C12	21000	< 0.10	71 490	260 860		< 1.0		< 0.10	< 0.10	< 0.10	< 0.10	4100 3100		50 47	48 46	< 0.10	120	110 91	33	13	130	180	15	< 0.10	< 0.10 < 0.10	< 0.10 < 0.10	13	60	11	< 0.10	< 0.10	< 0.10	25	< 0.10
Part	EC:016-021 FO:021-035		< 0.10 < 0.10	1300	1900		<1.0 <1.0		< 0.10 < 0.10	< 0.10 < 0.10	< 0.10	< 0.10	2000	2200	12	11 74	< 0.10 13000	170	35 130	5.1	190 1200	< 0.10 < 0.10	1000	24	< 0.10 170	< 0.10 < 0.10	11	120 780	230	< 0.10 130	< 0.10 < 0.10	< 0.10	< 0.10 < 0.10	< 0.10 280	62
Part		450000 NA		79	55 4300		<1.0 <5.0						1600	1400	< 0.10 200	< 0.10 190			< 0.10 980	< 0.10 110	27	< 0.10 360	230	< 0.10 1200	< 0.10 170				170	< 0.10 150	< 0.10 9.8			< 0.10	33
Column	Aromatics FC 5-7 (henzene)													< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	<0.010	< 0.010	< 0.010	< 0.010					< 0.010	< 0.010	< 0.010					
Column	EC>C7-C8 (toluene)	87000 2700	< 0.010	< 0.010	< 0.010		<1.0		< 0.010	< 0.010	< 0.010	< 0.010	710						< 0.010		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
March Marc								- :						82000					1200					< 0.10	9.5	< 0.10				7	11	< 0.10			< 0.10
March Marc	EC-C16-C21	7600	< 0.10	1200	3400		<1.0	- :	< 0.10	< 0.10	< 0.10	170	53000	55000	1100	1100	120	2200	1600	480	43	< 0.10	1500	640	< 0.10	< 0.10	97	64	3400	18	12	< 0.10	< 0.10	< 0.10	250
Part	FC)C35,C44	7800	< 0.10	160	360		<1.0		< 0.10	< 0.10	< 0.10		3700	4200	54 5200		120	260			65		540	< 0.10	< 0.10	< 0.10	< 0.10		390	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Part	Total Alphatics and Aromatics		< 2.0	9100					< 2.0	<2.0	< 2.0	1000	310000	330000	5400	5200	22000		7400		2700	3500	12000	4100	210	< 2.0	540	1300	15000	240	51	< 2.0	< 2.0	970	1800
Control Cont	TPH >C8-C10											- :					- :					- :		- :	- :	- :		- :							
Property Property	TPH >C12-C16																			_								- 1		- 1					
March Marc	TPH >C21-C25		- :				- :		- :						- :	- :					- :				- :								- 1		
Property column							- :		- :	- :	- :				- :	- :	- :				- :			- :	- :	- :	- 1		- :	- :			- :		
Mart Mart	Total TPH >Ct-C40 Total TPH >C10-C40					58						- :					- :					- :		- :	- :	- :		- :							
Marche M	BTEX & MTBE	mg/kg				< 10	•		-					-	-	-			-		-						-	-	-	-	-	_			
- Martine Bart 1988 1989 1989 1989 1989 1989 1989 198	Toluene					< 0.0010			< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	0.016									0.069	< 0.0010 < 0.0010	0.0082	0.0083	0.087	< 0.0010							< 0.0010	< 0.0010	< 0.0010
## 150	m&p-xylene				180 4.1	0.0010			< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	<0.0010									0.16	< 0.0010 < 0.0010	0.018	0.018	0.015	< 0.0010		- :					< 0.0010	< 0.0010	< 0.0010
September 1986 19. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	o-xylene MTBE		< 0.0010	< 0.0010	< 0.0010	< 0.0010		< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010	<0.010		- :		- 1					< 0.0010	< 0.0010 < 0.0010	< 0.0010	< 0.0010	< 0.009	< 0.0010 < 0.0010							< 0.0010	< 0.0010 < 0.0010	< 0.0010
Martine Mills 1.0 1.	Naphthalene	1200				-		0.077	0.082	< 0.010	< 0.010	7.3	19000	2000		7.2	2.5	210	84	53	< 0.010	< 0.010	0.31	< 0.010	4.2		3.2	< 0.010	4.3		1.1	< 0.010	0.11	0.29	0.24
Method 1989	Acenaphthene	29000 29000						0.092	0.11	< 0.010 < 0.010	< 0.010 < 0.010	5.3	3100		28	8.3	0.22		85	46	< 0.010 < 0.010	< 0.010 < 0.010	0.43	< 0.010	1.9	< 0.010	17	< 0.010	13 26	11	9.8	< 0.010	0.1	0.13	
Free Services 19								0.08	0.085	< 0.010 < 0.010	< 0.010 < 0.010	32 32	10000	1100	170						< 0.010 < 0.010	0.33	1.8	0.53	3.3 14	< 0.010 < 0.010	21 55	12	23 61	5.7 14	14	11	0.16	0.24	1.1
Manufactures Manu	Anthracene Fluoranthene	150000 6300						0.075	1.5	0.010	0.11	19	4100	180 430	82 82	23	0.17		170	97	< 0.010	0.12	3.2	0.12	8.2	0.13	16 86	10	11 46	1.6 8.2	1.6 8.6	0.14	0.11	1.1	1.5
Control Cont	Benz(a)anthracene							0.45	0.68	0.12 < 0.010	0.13 < 0.010	3.3	590	65	14		0.59	60	28U 31	16	< 0.010	0.74	1.5	0.29	11	< 0.010	71 71	15 8.2	29		3.6	0.42	0.66	0.35	0.23
Control Cont	Chrysene Benzo(b)fluoranthene	93 13	- 1		- 1	- 1	- :	0.14 0.17	0.69 0.8	< 0.010 < 0.010	< 0.010 < 0.010	3.4 4.4	550 640	63 39	16	3.8 4.7	0.19	58 68	32 37	17 19	< 0.010 < 0.010	0.25 0.42	1.4	0.23 0.25	1 15	< 0.010 < 0.010	2U 22	3.4 2.9	10 11	2.1 2.1	1.6	U.6 < 0.010	0.14	0.27	0.2 0.38
March Marc	Benzo(a)pyrene		- :							< 0.010	< 0.010	6.1	970	110	4.8 25	1.3 6.9	0.16	23 94	55 55	29	< 0.010	0.17	1.5	0.22	19	< 0.010	8.4 37	5	3.9 17	3.1		< 0.010	0.15	0.41	0.39
Compared MA. C. C. C. C. C. C. C. C. C. C. C. C. C.	Dibenz(a,h)anthracene	1.1	- :		-			0.034	< 0.010	< 0.010	< 0.010	0.32	20	2.3	0.5	0.25	0.15	2.6	1.4	0.63	< 0.010	< 0.010	0.2	< 0.010	< 0.010	< 0.010	1.6	< 0.010		1.1	1.3	< 0.010	< 0.010	< 0.010	< 0.010
Fig. Fig.	Coronene	1400 NA	- :		-	-		0.099	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010		< 0.010	< 0.010	< 0.010	5.7 < 0.010	0.17		43 < 0.010	< 0.010	< 0.010 -	< 0.010 -	0.93	< 0.010	< 0.010 < 0.010	< 0.010 -		< 0.010	12	3.9	3.5	<0.010	- 0.010	< 0.010	< 0.010
## FEED FEED	PAH 16 Total Total Of 17 PAH's	NA material	-:	-	-		- :	Z.5	7.1	0.21	0.24	150	70000	7200	970	210	7.1	3500	1900	1100	< 0.20	3.6		3.5	55	0.33	530	62	340	/b :	75	4.5	2.8		- 6.8
FREST F. F. F. F. F. F. F. F		mg/kg											< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010		< 0.0010	< 0.0010									< 0.0010						
FREST F. F. F. F. F. F. F. F	PCB 105		- :		-				- :	- :			< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010		< 0.0010	< 0.0010	- :					- :			< 0.0010	- :	- :		- 1		=
FG15 F F F F F F F F F	PCB 114 PCB 118		- :		-	-		- :	- :	÷		- :	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010	< 0.0010	< 0.0010		< 0.0010	< 0.0010	- :	- :	- :	- :	- :	- :	- :	- :	< 0.0010	- :	- :		- :	- :	
FG15 F F F F F F F F F	PCB 126		- :						- :		- :	- :	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010		< 0.0010	< 0.0010	- :			- :		- :	- 1	- 1	< 0.0010	:	- :				=
Trainer (September 1988) 1.00 1.0	PCB 157									- :			< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010		< 0.0010	< 0.0010			-		-	- :	- :		< 0.0010	- :			- 1		
Trainer (September 1988) 1.00 1.0	PCB 167 PCB 169		- 1		- 1	- 1	- :	- :	- :	:		- :	< 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	- 1	< 0.0010	< 0.0010		-	- :		- :	÷		- 1	< 0.0010 < 0.0010	÷	- :				
Compact Matter MA	PCB 189 Total PCBs (12 Congeners)		- :		- :				- :	- :			< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010	< 0.0010	< 0.0010		< 0.0010 < 0.0010	< 0.0010	- :		- :		- :			- :	< 0.0010 < 0.0010	- 1	- :				_:_
Montest March Ma	Fraction of Organic Carbon	NA.	0.002	0.08	0.027	0.0012		0.0098				0.0016			.0.40	-0.40	0.021	0.057	0.53		0.15	0.026	0.065	0.03	-0.40	0.01							0.0023	0.0048	0.0069
Sophes Control Contr	Organic Matter Moisture			16	21	18	21	- 13	- 19	- 19	12	9.6	21 68	57 75	< 0.40 16	< 0.40 14	31	21	0.53 6.3	0.59 12	- 45	15	22	38	< 0.40 18	20	18	21	12	18	24	26	7.6	19	41
Charles (Internable)	Sulphate (2:1 Water Soluble) as SO4 mg/l	24 NA	< 0.50 120	52	180	< 0.50	-:-	40.50	- :	- :		< 0.50 180		-			470	360			1500	300	< 0.50 400	< 0.50 490	-	460				- :			440	260	220
About Securing Alexes by General About 1 Securing Alexes by General About 1 Securing Alexes by General About 1 Securing Alexes by General About 1 Securing Alexes by General About 1 Securing Alexes by General About 1 Securing Alexes by General About 2 Securing Alexes by General Content	pH (pH Units) Chloride (Extractable)	pH (<5, ×9)	10 62	8.7 160	8.6 180	10.4		8.5				9.1 70	8.8	9	8.9	9.1			8.7	8.5	8.4 190	8.4 240	7.9 720	8 600		8.6 48	8.6	8.4	8.8	8.9	8.9	8.9		8.6 140	8.4 480
Assistation (antification Present) Assist Detacted Detact	Potassium (Total) Asbestos Screening		140		100	-	_		-	-	•	55	-	-	<u> </u>	-	0,10	- 110		-	100	120	1919		-				-	-	-			72.	402
Control		Present / Absent					-		-	-	-		-	-	-	-			-	-			No Asbestos Detected		-		-	-	-	-	-	-			
Total Adventos		NA NA	- :	-	-		- :					Chrysotile 0.001			- :	- :	-		-		-			- :	-	÷	-	-		- :					
	Total Asbestos	If with the exception of	-	1		1 -			-	-	-	0.001	-	<u> </u>				1		_	-	· ·	- 1	-		-	-	-	-	-	-		-		

GACs are the LGM S4ULs with 1% SOM with the exception of those listed below.

1. The GAC for lead is the CASL derived using a Low Level of Tostcological Concern (LTC) of 3-Sugid: blood lead.

2. Free Cyaride - WYG derived using CLEA. See WYG Technical Memorandum: Derivation of a SSV.

Contaminant GAC	Public Open Space - Park (1% SOM)	BH677	BH677	8H678	8H678	8H678	8H678	8H678	BH678	BH679	Вн679	BH679	BH679	BH679	BH679	вн679
Heavy Metals	Depth (m)	9.0	12	1.0	3.0	5.0	7.0	2.2	12.0	1.0	3.0	4.0	6.0	8.0	9.0	12.0
Inorganic Arsenic	170 532	5.5 0.18	4 0.11	4.8 0.14	4.4 <0.10	5.9 0.19	4.3 < 0.10	3.5 < 0.10	4.2 0.12	6.9 0.1	3.1 < 0.10	4.6 0.56	-		-	-
Boron	46000	1.6	0.11	< 0.40	0.98	1.6	2	0.44	0.12	1.2	7.1	5.1		- :		+÷-
Chromium (total) Copper	33000 44000	- 21	11	18	- 18	170	110	10	- 13	24	- 22	12	-	-	-	+-:-
Inorganic Mercury Nickel	240 800	0.08	< 0.05 11	< 0.05 16	< 0.05 16	0.07	< 0.05 13	< 0.05 9.4	< 0.05 12	0.05	< 0.05 18	0.05			-	
Lead	1300	33	8.7	15	12	160	47	8.7	13	19	6.4	20				
Selenium Zinc	1800 170000	0.34 88	0.3 42	0.71 50	0.71 46	0.64 92	0.28 55	0.47 35	0.51 43	0.51 63	1.3 16	0.39 52		-	-	
Chromium (Trivalent) Chromium VI	220	13 < 0.50	9.2 < 0.50	13 < 0.50	12 < 0.50	17 < 0.50	14 < 0.50	8.7 < 0.50	11 < 0.50	14 < 0.50	5.2 < 0.50	7.7 <0.50	-	-	-	
Manganese	220	180	170	370	330	240	180	140	160	440	83	450				
Magnesium (Water Soluble) Iron (Available) Beryllium		< 20 65000	< 20 70000	< 20 58000	< 20 93000	30 27000	< 20 34000	< 20 61000 < 0.5	< 20 72000	< 20 99000	< 20 180000	< 20 77000 < 0.5	-	-	-	+ :-
Beryllium		< 0.5 11	< 0.5 7.8	< 0.5	< 0.5 9.5	< 0.5	< 0.5 9.2	< 0.5	< 0.5 8.8	< 0.5	1.5	< 0.5 13	-			
Organics	mg/kg 440															
Phenol Resorcinol	440	< 0.020 < 0.020	< 0.020											- :		
Cresols Xylenols		< 0.020 < 0.020	< 0.020 < 0.020	-	-	-	-	-	-	-	-	-	-	-	-	+-:-
1-Naphthol		< 0.020 < 0.020	< 0.020 < 0.020	-					-	-	-	-	-	-	-	-
Total Phenois		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10				
Total Petroleum Hydrocarbons Aliphatics	mg/kg															
EC) CS-C6	95000	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
EC>C6-C8 EC>C8-C10	150000 14000	< 0.010 < 0.10	< 0.010 < 0.10	< 0.010 < 0.10	< 0.010 < 0.10	< 0.010 < 0.10	< 0.010 < 0.10	< 0.010 < 0.10	< 0.010 < 0.10	< 0.010 < 0.10	< 0.010 < 0.10	< 0.010 < 0.10	< 0.010 < 0.10	< 0.010 < 0.10	< 0.010 < 0.10	< 0.010 < 0.10
EC>C10-C12 EC>C12-C16	21000 25000 450000	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10	<0.10 <0.10 <0.10	< 0.10 < 0.10 < 0.10	18 29	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	140 12	22 43	21 24	< 0.10 < 0.10	< 0.10 < 0.10
EC+C16-C21 EC+C21-C35	450000 450000	< 0.10 500	< 0.10 160	< 0.10 150	< 0.10 52	< 0.10 87	72 620	86	61	< 0.10 < 0.10		9 260	210 740	20 150	< 0.10 < 0.10	< 0.10 < 0.10
EC-C21-C35 EC-C35-C44	450000 450000 NA	500 < 0.10	160 < 0.10	150 < 0.10	52 <0.10	87 < 0.10	8 750	13 99	< 0.10 61	< 0.10	< 0.10 < 0.10	260 < 0.10 420	< 0.10	< 0.10	< 0.10 < 0.10	< 0.10 < 0.10
Total aliphatics Aromatics	NA 76000	500	160	150	52	87	/50			< 1.0	< 1.0	4.00	1000	220	< 1.0	< 1.0
EC 5-7 (benzene) EC+C7-C8 (tolsiene)	76000 87000	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010
EC>C8-C10 EC>C10-C12	7200 9200	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	33 9.1	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10
	10000	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		71	< 0.10	< 0.10	< 0.10
EC:C16-C21 EC:C21-C35	7600	< 0.10 13	< 0.10 < 0.10	< 0.10 15	< 0.10 50	< 0.10 < 0.10	280	< 0.10 63	< 0.10 11	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 52	680	110	< 0.10 < 0.10	< 0.10 < 0.10
EC>C35-C44 Total aromatics	7800	< 0.10 13	< 0.10 < 1.0	< 0.10 16	< 0.10 50	< 0.10 < 1.0	46 370	8.1 71	< 0.10 11	< 0.10 < 1.0	< 0.10 < 1.0	9.7 62	23 880	13 140	< 0.10 < 1.0	< 0.10 < 1.0
Total Aliphatics and Aromatics		510	160	160	100	87	1100	170	72	< 2.0	< 2.0	480	1900	350	< 2.0	< 2.0
TPH >C6-C8 TPH >C8-C10														-		
TPH >C10-C12 TPH >C12-C16 TPH >C16-C21		-:-	- :			-	-	-			- :	- :		- :	-	-
TPH >C16-C21 TPH >C21-C25																-
TPH >C25-C35		- :									- :					
TPH >C35-C40 Total TPH >C6-C40 Total TPH >C10-C40		-	-	-	-	-	-	-	-	-	-	-		-	-	
Total TPH >CS-C10		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+-:-
BTEX & MTBE Benzene	mg/kg	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0058	< 0.0010	< 0.0010				
Toluene	87000	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.01	< 0.0010	< 0.0010	-	-	-	-
Ethylbenzene m&p-xylene	17000 170000	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	0.11 0.021	< 0.0010 < 0.0010	< 0.0010 < 0.0010	-	-	-	+-:-
o-xylene MTBE	17000 NA	< 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	0.014 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	- :	-	-	+ :
Polycyclic Aromatic Hydrocarbons	mg/kg														0.46	-0.040
Naphthalene Acenaphthylene	1200 29000	0.29	0.062 0.28	0.28 1.1	0.11	0.19 0.81	0.13 1.2	< 0.010 < 0.010	< 0.010 < 0.010	0.66 30	0.12 1.3	< 0.010 < 0.010	23	0.1	0.16 0.67	< 0.010
Acenaphthene Fluorene	29000 20000 6200	0.15 0.28	0.14	0.44	0.073	0.27 0.57 2.8	0.26 0.54	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010	9.6 30	0.43	< 0.010 < 0.010	6.8 12	0.16 0.37	0.2	< 0.010 < 0.010 0.38
Phenanthrene Anthracene	6200 150000	1.2 0.16	0.9	0.46	0.36	2.8 0.21	0.28	< 0.010 < 0.010	< 0.010 < 0.010	92 9.4	0.35	0.14	35 5.4	2.2 0.35	0.14	0.38
Fluoranthene	6300	1.2	1.1	3.2	0.45	2.5	2.9	0.37	0.49	46	1.6	0.43	18	1.7	0.63	0.31
Pyrene Benz(a)anthracene	15000 49	0.25 0.19	0.14	3.9 0.65	0.54	3.1 0.51	3.8 0.49	< 0.010	0.56 < 0.010	65 6.5	2.1 0.3 0.24	0.53 < 0.010	2.6	0.23	0.81 < 0.010	0.38 < 0.010
Chrysene Benzo(b)fluoranthene	49 93 13	0.39	0.12	1.3	< 0.010	1.2	0.45	< 0.010 < 0.010	< 0.010	7 8.5	0.26	< 0.010 < 0.010	2.7 3.6	0.23 0.2 0.37	< 0.010	< 0.010
Benzo(k)fluoranthene Benzo(a)pyrene	370 11	0.098	0.081	0.36	< 0.010 < 0.010	0.36	0.24	< 0.010 < 0.010	< 0.010 < 0.010	2.7 11	0.13	< 0.010 < 0.010	1.1	0.16	< 0.010 < 0.010	< 0.010 < 0.010
Indeno(123cd)pyrene	150	< 0.010	< 0.010	< 0.010	< 0.010	0.87	< 0.010	< 0.010	< 0.010	7.2	< 0.010	< 0.010	2.6	< 0.010	< 0.010	< 0.010
Dibenz(a,h)anthracene Benzo(ghi)perylene	1.1 1400	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010 < 0.010	0.069	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	0.29	< 0.010 < 0.010	< 0.010 < 0.010	0.18 4.5	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010 < 0.010
Coronene PAH 16 Total	NA NA	6.4	4.8	19	1.9	16	15	0.81	1.1	340	11	2.1	< 0.010	< 0.010	< 0.010	< 0.010
Total Of 17 PAH's	me/ke	-			-	-	-		-		-	-	150	9.4	4	1.2
PCB 81 PCB 77											-	-	< 0.0010 < 0.0010	< 0.0010	< 0.0010 < 0.0010	
PCB 105	1												< 0.0010	< 0.0010 < 0.0010	< 0.0010	
PCB 114 PCB 118	+	-	H =		-	-	-	-	-	-	_		< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	+ =
PCB 123 PCB 126	1		-	-		-	-					-	< 0.0010	< 0.0010	< 0.0010 < 0.0010	
PCB 156	1					-	-						< 0.0010	< 0.0010	< 0.0010	
PCB 157 PCB 167	1		H : -										< 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	+
PCB 169 PCB 189		-:-	- :	- :	- :	- :	- :	- :	- :	- :	- :	- :	< 0.0010 < 0.0010 < 0.0010	< 0.0010 < 0.0010	< 0.0010 < 0.0010	F :-
Total PCBs (12 Congeners)													< 0.0010	< 0.0010	< 0.0010	
Inorganics Fraction of Organic Carbon	NA.	0.005	< 0.0010	0.0083	0.01	0.008	0.0074	< 0.0010	< 0.0010	0.0038	0.014	0.18				
Organic Matter Moisture	NA NA	18	19	15	9.5	11	19	18	20	- 15	22	24	6.2 14	2.8 29	< 0.40 19	< 0.40 20
Free Cyanide Sulphate (2:1 Water Soluble) as SO4 mg/l	24 NA	< 0.50 260	< 0.50 20	< 0.50 180	< 0.50 330	< 0.50 2200	< 0.50 970	< 0.50 88	< 0.50 80	< 0.50 30	< 0.50 180	< 0.50 250	- :	- :		==
	pH (<5, >9)	8.7	9	8	8.2	8.4	8.7	8.8	8.6	8.4	8.3	8.2				
Chloride (Extractable) Potassium (Total)		130 690	< 20 660	160 560	140 460	360 720	360 460	24 600	730	62 400	260 340	1000 310				<u> </u>
Asbestos Screening Asbestos Identification		No Asbestos	No Asbestos	No Asbestos	No Asbestos	No Asbestos	No Asbestos	No Asbestos	No Asbestos	No Asbestos	No Asbestos	No Asbestos				
Asbestos Identification ACM Type	Present / Absent NA	Detected	No Asbestos Detected	Detected	Detected	No Asbestos Detected	Detected	No Asbestos Detected	No Asbestos Detected	Detected	Detected	Detected			-	1
Asbestos by Gravimetry	NA.															
GACs are the LQM S4ULs with 1% SQM (with the exception of	<u> </u>									<u> </u>	<u> </u>		<u> </u>		
GACs are the LQM S4ULs with 1% SOM of those listed below:																

The GAC for lead is the C4SL derived using a Low Level of Toxicological Concern (LLTC) of 3 Suydd. blood lead.
 Free Cyanide - WYG derived using CLEA. See WYG Technical Memorandum: Derivation of a SSV.

Contaminant GAC	Public Open Space - Park (1% SOM)	BH659	BH659	BH659	BH659	BH659	BH660	BH660	BH660	BH660	BH660A	BH660A	BH660A	BH660A	BH665	BH665
	Depth(m)	7.0	9.0	11.0	12.0	14.0	6.0	7.0	8.0	9.0	9.0	10.0	12.0	13.0	8.0	10.0
VOCs	mg/kg															
Dichlorodifluoromethane		< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloromethane		< 0.001	< 0.001	< 0.001	< 0.001		-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	4.8000	< 0.001	< 0.001	< 0.001	< 0.001		-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane		< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chloroethane		< 0.002	< 0.002	< 0.002	< 0.002	-	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Trichlorofluoromethane		< 0.001	< 0.001	< 0.001	< 0.001		-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0026	< 0.001	< 0.001	< 0.001
1,1-Dichloroethene		< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trans 1,2-Dichloroethene		< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane		< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis 1,2-Dichloroethene		< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane		< 0.005	< 0.005	< 0.005	< 0.005	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Trichloromethane		< 0.001	< 0.001	< 0.001	<0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001
1,1,1-Trichloroethane	57,000 (1,425)vap	< 0.001	<0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001
Tetrachloromethane		< 0.001	< 0.001	< 0.001	<0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.001	< 0.001	<0.001
1,1-Dichloropropene		<0.001	<0.001	<0.001	<0.001	-	-	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001
Benzene		< 0.001	0.85	0.26	0.0012	-	-	< 0.001	0.017	190	0.16	0.092	0.02	0.055	0.012	-
1,2-Dichloroethane	21.0000	< 0.002	< 0.002	<0.002	< 0.002	-	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Trichloroethene	70.0000	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane		< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane		< 0.001	< 0.001	< 0.001	<0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001
Bromodichloromethane		< 0.005	< 0.005	< 0.005	< 0.005	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
cis-1,3-Dichloropropene		< 0.01	< 0.01	< 0.01	<0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	<0.01
Toluene		< 0.001	0.012	0.035	0.0019	-	-	0.0033	0.0049	74	0.036	0.01	0.0075	0.018	0.006	0.0071
Trans-1,3-Dichloropropene		< 0.01	< 0.01	<0.01	<0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	<0.01
1,1,2-Trichloroethane		< 0.01	< 0.01	<0.01	<0.01	-	-	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	<0.01	< 0.01	<0.01
Tetrachloroethene	810 (424)sol	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001
1,3-Dichloropropane		< 0.002	< 0.002	< 0.002	<0.002	-	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Dibromochloromethane		<0.01	< 0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-Dibromoethane		< 0.005	< 0.005	< 0.005	<0.005	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chlorobenzene		< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,1,2-Tetrachloroethane	1500.0000	<0.002	< 0.002	<0.002	<0.002	-	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	< 0.002	<0.002	< 0.002
Ethylbenzene		< 0.001	0.68	0.22	0.046	-	-	0.0032	0.055	290	0.2	0.12	0.033	0.016	0.083	0.2
m & p-Xylene		< 0.001	0.053	0.19	0.17	-	-	0.0072	0.016	12	0.029	0.0075	0.069	0.034	0.021	0.029
o-Xylene		< 0.001	0.028	0.09	0.052	-	-	0.0039	0.007	6.5	0.022	0.0058	0.019	0.012	0.014	0.014
Styrene		< 0.001	< 0.001	0.35	0.0094	-	-	0.0038	0.0042	23	0.0059	0.003	< 0.001	<0.001	< 0.001	0.0085
Tribromomethane		< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Isopropylbenzene		<0.001	<0.001	0.016	0.026	-	-	0.0033	0.012	1.2	<0.001	<0.001	< 0.001	<0.001	0.011	< 0.001
Bromobenzene		< 0.001	< 0.001	< 0.001	< 0.001	-	-	0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2,3-Trichloropropane		< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
N-Propylbenzene		<0.001	<0.001	0.011	0.031	-	-	< 0.001	< 0.001	1.4	<0.001	<0.001	0.034	0.021	< 0.001	<0.001
2-Chlorotoluene		<0.001	< 0.001	<0.001	<0.001	-	-	0.0038	< 0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	< 0.001	<0.001
1,3,5-Trimethylbenzene		<0.001	<0.001	0.016	0.045	-	-	< 0.001	< 0.001	1.9	<0.001	<0.001	0.024	0.017	< 0.001	<0.001
4-Chlorotoluene		<0.001	<0.001	< 0.001	<0.001	-	-	0.0051	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001
Tert-Butylbenzene		<0.001	< 0.001	0.0047	0.012	-	-	0.0051	< 0.001	0.63	< 0.001	<0.001	<0.001	<0.001	< 0.001	<0.001
1,2,4-Trimethylbenzene		<0.001	<0.001	0.0038	0.019	-	-	0.0047	< 0.001	<0.001	<0.001	<0.001	0.11	0.058	0.043	0.058
Sec-Butylbenzene	000 0000	<0.001	< 0.001	<0.001	<0.001	-	-	0.0065	< 0.001	<0.001	<0.001	<0.001	0.053	<0.001	< 0.001	<0.001
1,3-Dichlorobenzene	390.0000	<0.001	< 0.001	<0.001	<0.001	-	-	0.0063	< 0.001	<0.001	< 0.001	< 0.001	<0.001	<0.001	< 0.001	<0.001
4-Isopropyltoluene	00.000 (00.0)	<0.001	< 0.001	<0.001	0.012	-	-	0.0099	<0.001	0.63	< 0.001	<0.001	0.021	0.012	0.048	0.12
1,4-Dichlorobenzene	36,000 (224)vap	<0.001	<0.001	<0.001	<0.001	-	-	0.0078	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001
N-Butylbenzene	04 000 (574)	< 0.001	< 0.001	< 0.001	< 0.001	-	-	0.012	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	<0.001
1,2-Dichlorobenzene	24,000 (571)sol	<0.001	<0.001	<0.001	<0.001	-	-	0.0084	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane	1 700 (010)	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	1,700 (318)vap	<0.001	<0.001	<0.001	<0.001	-	-	0.019	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	48.0000	<0.001	<0.001	<0.001	<0.001	-	-	0.0087	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	770 (134)vap	<0.002	<0.002	<0.002	<0.002	-	-	<0.002	< 0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tert-Butyl Ether	_	<0.001	< 0.001	< 0.001	<0.001	- 0.050	- 0.050	<0.001	< 0.001	<0.001	< 0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001
N-Nitrosodimethylamine		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
VOC TIC		None Detected	None Detected	None Detected	-	-	None Detected	None Detected	None Detected	None Detected	None- Detected	None Detected	None Detected	None Detected	None Detected	None Detected

Contaminant GAC	Public Open Space - Park (1% SOM)	BH665	BH665	BH666	BH666	BH666	BH666	BH667	BH667	BH667	BH667	BH667	BH668	BH668	BH668	BH668
	Depth(m)	11.0	12.0	9.0	10.0	11.0	13.0	3.0	6.0	8.0	11.0	13.0	7.0	8.0	9.0	10.0
VOCs	mg/kg															
Dichlorodifluoromethane		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloromethane		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	4.8000	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chloroethane		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Trichlorofluoromethane		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethene		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trans 1,2-Dichloroethene		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis 1,2-Dichloroethene		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Trichloromethane		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,1-Trichloroethane	57,000 (1,425)vap	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloromethane		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001
1,1-Dichloropropene		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001
Benzene		0.026	-	0.019	0.13	0.0019	0.0045	< 0.001	< 0.001	0.0094	0.0065	0.011	0.011	2100	1300	0.04
1,2-Dichloroethane	21.0000	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	<0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Trichloroethene	70.0000	< 0.001	0.069	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
cis-1,3-Dichloropropene		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene		0.011	760	0.015	0.087	0.0022	0.0029	< 0.001	< 0.001	0.004	0.0039	0.0077	0.007	28	500	0.022
Trans-1,3-Dichloropropene		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01
1,1,2-Trichloroethane		<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	<0.01	< 0.01	< 0.01	<0.01	<0.01	<0.01	< 0.01
Tetrachloroethene	810 (424)sol	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,3-Dichloropropane		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Dibromochloromethane		<0.01	< 0.01	< 0.01	<0.01	<0.01	< 0.01	<0.01	< 0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	< 0.01
1,2-Dibromoethane		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	<0.005	<0.005	< 0.005	< 0.005
Chlorobenzene		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,1,2-Tetrachloroethane	1500.0000	< 0.002	< 0.002	< 0.002	<0.002	< 0.002	< 0.002	<0.002	< 0.002	<0.002	< 0.002	<0.002	<0.002	<0.002	< 0.002	<0.002
Ethylbenzene		0.018	1400	0.051	0.031	< 0.001	0.0017	< 0.001	< 0.001	0.0048	0.0088	0.016	0.017	1300	460	0.082
m & p-Xylene		0.0079	27	0.007	0.039	< 0.001	0.0094	< 0.001	< 0.001	0.004	0.0048	0.0078	0.013	< 0.001	<0.001	< 0.001
o-Xylene		0.0031	92	0.005	0.021	<0.001	0.0046	< 0.001	< 0.001	0.0013	0.0014	0.0028	0.0033	8	28	0.015
Styrene		0.018	7.2	0.0029	0.19	< 0.001	0.0015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.19
Tribromomethane		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001
Isopropylbenzene		<0.001	38	<0.001	<0.001	<0.001	0.0058	< 0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	12	0.011
Bromobenzene		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2,3-Trichloropropane		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
N-Propylbenzene		<0.001	35	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	5.3	0.042
2-Chlorotoluene		< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,3,5-Trimethylbenzene		<0.001	11	<0.001	0.01	<0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	0.019
4-Chlorotoluene		<0.001	<0.001	<0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tert-Butylbenzene		<0.001	0.27	<0.001	0.0036	<0.001	< 0.001	<0.001	< 0.001	<0.001	< 0.001	< 0.001	<0.001	<0.001	2.3	<0.001
1,2,4-Trimethylbenzene		<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	1.6	0.085
Sec-Butylbenzene		<0.001	< 0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	390.0000	< 0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001
4-Isopropyltoluene		<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	36,000 (224)vap	<0.001	< 0.001	<0.001	< 0.001	<0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001
N-Butylbenzene	0.000 (574)	<0.001	< 0.001	<0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001
1,2-Dichlorobenzene	24,000 (571)sol	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane	1 700 (010)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	1,700 (318)vap	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	48.0000	<0.001	< 0.001	<0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001
1,2,3-Trichlorobenzene	770 (134)vap	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	< 0.002	< 0.002	<0.002	< 0.002	< 0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tert-Butyl Ether	1	< 0.001	0.0053	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	7.2	< 0.001
N-Nitrosodimethylamine		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
VOC TIC		None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	-	-

Contaminant GAC	Public Open Space - Park (1% SOM)	BH668	BH668	BH668	BH668	BH669	BH669	BH669	BH669	BH670	BH670	BH671	BH671	BH671	BH673	BH673
	Depth(m)	11.0	12.0	13.0	14.0	7.0	9.0	11.0	13.5	5.0	6.0	2.0	3.0	5.0	3.0	4.0
VOCs	mg/kg															
Dichlorodifluoromethane		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloromethane		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	4.8000	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chloroethane		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Trichlorofluoromethane		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethene		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trans 1,2-Dichloroethene		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis 1,2-Dichloroethene		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Trichloromethane		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,1-Trichloroethane	57,000 (1,425)vap	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloromethane		< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloropropene		< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Benzene		0.0085	0.052	0.018	0.049	0.019	0.062	0.13	0.24	0.064	0.11	190	67	0.93	< 0.001	< 0.001
1,2-Dichloroethane	21.0000	<0.002	<0.002	<0.002	< 0.002	<0.002	<0.002	<0.002	< 0.002	< 0.002	<0.002	<0.002	<0.002	< 0.002	< 0.002	< 0.002
Trichloroethene	70.0000	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
cis-1,3-Dichloropropene		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene		0.0041	0.026	0.047	0.09	0.0049	0.0032	0.0025	0.002	0.0044	0.098	85	40	0.53	< 0.001	< 0.001
Trans-1,3-Dichloropropene		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,2-Trichloroethane		< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	<0.01	< 0.01	< 0.01	<0.01
Tetrachloroethene	810 (424)sol	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,3-Dichloropropane		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Dibromochloromethane		<0.01	<0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01
1,2-Dibromoethane		< 0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chlorobenzene		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.042	0.0069	0.011	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,1,1,2-Tetrachloroethane	1500.0000	<0.002	<0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	<0.002	<0.002	< 0.002	<0.002	<0.002	< 0.002	< 0.002
Ethylbenzene		0.004	0.13	0.89	0.55	0.0054	0.0072	0.0071	0.0029	0.011	0.1	5.8	180	2.3	< 0.001	< 0.001
m & p-Xylene		< 0.001	0.0032	0.015	0.044	0.048	0.01	0.0043	0.0032	0.0063	< 0.001	7.2	4.1	0.18	< 0.001	< 0.001
o-Xylene		< 0.001	0.025	0.066	0.036	0.019	0.0046	0.003	0.0029	0.0082	<0.001	4.9	3	0.14	< 0.001	< 0.001
Styrene		0.028	<0.001	< 0.001	0.22	0.005	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	85	90	< 0.001	< 0.001	< 0.001
Tribromomethane		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Isopropylbenzene		< 0.001	0.036	0.035	0.017	0.0081	< 0.001	< 0.001	0.0058	0.01	0.015	2.8	1.4	< 0.001	< 0.001	< 0.001
Bromobenzene		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2,3-Trichloropropane		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
N-Propylbenzene		< 0.001	<0.001	0.02	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	1.4	0.77	<0.001	<0.001	< 0.001
2-Chlorotoluene		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,3,5-Trimethylbenzene		<0.001	0.013	0.043	0.022	< 0.001	< 0.001	< 0.001	<0.001	<0.001	0.051	1.7	1	<0.001	< 0.001	<0.001
4-Chlorotoluene		< 0.001	<0.001	< 0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0077	<0.001	<0.001	<0.001	<0.001	<0.001
Tert-Butylbenzene		< 0.001	<0.001	<0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.001	< 0.001	0.39	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene		<0.001	0.016	0.19	0.1	< 0.001	< 0.001	0.018	0.054	0.057	0.2	<0.001	<0.001	<0.001	<0.001	<0.001
Sec-Butylbenzene		< 0.001	<0.001	0.013	0.0065	< 0.001	<0.001	<0.001	< 0.001	<0.001	0.016	<0.001	<0.001	<0.001	<0.001	< 0.001
1,3-Dichlorobenzene	390.0000	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
4-Isopropyltoluene		< 0.001	<0.001	0.015	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.027	<0.001	0.39	<0.001	<0.001	< 0.001
1,4-Dichlorobenzene	36,000 (224)vap	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.011	0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
N-Butylbenzene		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichlorobenzene	24,000 (571)sol	<0.001	<0.001	0.0092	<0.001	< 0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane	4 =00 (5.5)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	1,700 (318)vap	<0.001	<0.001	<0.001	<0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	48.0000	< 0.001	<0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.001	< 0.001	<0.001	< 0.001	< 0.001	<0.001
1,2,3-Trichlorobenzene	770 (134)vap	<0.002	< 0.002	<0.002	<0.002	<0.002	<0.002	< 0.002	<0.002	<0.002	<0.002	< 0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tert-Butyl Ether		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001
N-Nitrosodimethylamine		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
VOC TIC		-	-	-	-	None Detected	None Detected	None Detected	None Detected	-	-	-	-	-	None Detected	None Detected

Contaminant GAC	Public Open Space - Park (1% SOM)	BH673	BH673	BH674	BH674	BH674	BH675	BH676	BH676	BH676	BH676	BH676	BH676	BH677	BH677	BH677
VOCs	mg/kg															
Dichlorodifluoromethane		< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloromethane		< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	4.8000	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane		< 0.02	< 0.02	< 0.02	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chloroethane		< 0.002	< 0.002	< 0.002	< 0.0002	< 0.0002	< 0.0002	<0.0002	< 0.0002	<0.0002	<0.002	< 0.002	< 0.002	< 0.002	<0.002	< 0.002
Trichlorofluoromethane		<0.001	< 0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	< 0.0002	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001
1,1-Dichloroethene		<0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001
Trans 1,2-Dichloroethene		< 0.001	<0.001	< 0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	< 0.0002	< 0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001
1,1-Dichloroethane		<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.0002	<0.0002	<0.0002 <0.0002	<0.0002	<0.0002 <0.0002	<0.0002	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001
cis 1,2-Dichloroethene Bromochloromethane		<0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloromethane		<0.003	<0.003	<0.003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1,1,1-Trichloroethane	57,000 (1,425)vap	<0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloromethane	31,000 (1,723)Vap	<0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene		<0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Benzene		<0.001	<0.001	<0.001	0.015	0.24	0.0033	0.0031	0.2	0.0085	<0.001	< 0.001	<0.001	<0.001	<0.001	< 0.001
1,2-Dichloroethane	21.0000	<0.002	<0.002	<0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichloroethene	70.0000	<0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001
1,2-Dichloropropane		< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane		< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane		< 0.005	< 0.005	< 0.005	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
cis-1,3-Dichloropropene		< 0.01	< 0.01	< 0.01	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene		< 0.001	0.0017	< 0.001	0.0026	0.15	0.001	0.0012	0.049	0.0034	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trans-1,3-Dichloropropene		< 0.01	< 0.01	<0.01	< 0.0002	< 0.0002	< 0.0002	<0.0002	< 0.0002	< 0.0002	<0.01	< 0.01	<0.01	<0.01	<0.01	< 0.01
1,1,2-Trichloroethane		<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	< 0.0002	<0.0002	<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01
Tetrachloroethene	810 (424)sol	<0.001	< 0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	< 0.0002	< 0.0002	<0.001	< 0.001	<0.001	<0.001	< 0.001	<0.001
1,3-Dichloropropane		<0.002	<0.002	<0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromochloromethane		<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-Dibromoethane		<0.005 <0.001	<0.005 <0.001	<0.005 <0.001	<0.0002 <0.0002	<0.0002 <0.0002	<0.0002 <0.0002	<0.0002 <0.0002	<0.0002 <0.0002	<0.0002 <0.0002	<0.005 <0.001	<0.005 <0.001	<0.005 <0.001	<0.005 <0.001	<0.005 <0.001	<0.005 <0.001
Chlorobenzene 1.1.1.2-Tetrachloroethane	1500.0000	<0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	1500.0000	<0.002	0.002	<0.002	0.0075	0.24	0.002	0.023	0.27	0.0002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
m & p-Xylene		<0.001	0.01	<0.001	0.0073	0.051	0.001	0.0012	0.012	0.0057	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene		<0.001	0.0025	<0.001	0.0013	0.037	0.00089	0.00078	0.0077	0.0037	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene		<0.001	< 0.0025	<0.001	0.0020	0.024	0.0008	0.0025	0.027	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001
Tribromomethane	i	<0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene		< 0.001	<0.001	<0.001	< 0.0002	0.024	0.00097	0.0015	0.0047	0.0037	< 0.001	<0.001	< 0.001	< 0.001	<0.001	< 0.001
Bromobenzene		< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0059	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1,2,3-Trichloropropane		< 0.05	< 0.05	< 0.05	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
N-Propylbenzene		< 0.001	< 0.001	< 0.001	< 0.0002	0.003	<0.0002	< 0.0002	0.0022	0.0049	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2-Chlorotoluene		< 0.001	<0.001	<0.001	< 0.0002	< 0.0002	<0.0002	< 0.0002	< 0.0002	0.0053	<0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001
1,3,5-Trimethylbenzene		<0.001	<0.001	< 0.001	<0.0002	<0.0002	<0.0002	<0.0002	0.0055	0.0044	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene		<0.001	<0.001	< 0.001	<0.0002	< 0.0002	<0.0002	<0.0002	< 0.0002	0.0048	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tert-Butylbenzene		<0.001	<0.001	< 0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0043	< 0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001
1,2,4-Trimethylbenzene		<0.001	0.022	<0.001	0.018	0.13	<0.0002	<0.0002	0.025	0.0076	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sec-Butylbenzene	200 0000	<0.001	<0.001	<0.001	<0.0002	0.01	<0.0002	<0.0002	<0.0002	0.0057	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	390.0000	< 0.001	<0.001 0.0056	<0.001	<0.0002	<0.0002	<0.0002	<0.0002 <0.0002	<0.0002	0.0064	<0.001	< 0.001	<0.001	<0.001	<0.001	< 0.001
4-Isopropyltoluene 1,4-Dichlorobenzene	36,000 (224)vap	<0.001 <0.001	<0.0056	<0.001 <0.001	<0.0002 <0.0002	<0.0002 <0.0002	<0.0002 <0.0002	<0.0002	<0.0002 <0.0002	0.0064	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001
N-Butvlbenzene	30,000 (224)Vap	<0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1.2-Dichlorobenzene	24.000 (571)sol	<0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane	24,000 (071)301	<0.05	<0.05	<0.05	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2,4-Trichlorobenzene	1,700 (318)vap	<0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	48.0000	<0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0092	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	770 (134)vap	<0.002	<0.002	<0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.025	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tert-Butyl Ether	. (< 0.001	< 0.001	<0.001	< 0.0002	<0.0002	<0.0002	< 0.0002	<0.0002	0.00073	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001
N-Nitrosodimethylamine		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
VOC TIC		None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	-	-	-	-	-	-	-	-	-

Contaminant GAC	Public Open Space - Park (1% SOM)	BH679	BH679	BH679	BH679
	Depth(m)	6.0	8.0	9.0	12.0
VOCs	mg/kg				
Dichlorodifluoromethane		< 0.001	< 0.001	< 0.001	< 0.001
Chloromethane		< 0.001	< 0.001	< 0.001	< 0.001
Vinyl Chloride	4.8000	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane		< 0.02	< 0.02	< 0.02	< 0.02
Chloroethane		< 0.002	< 0.002	< 0.002	< 0.002
Trichlorofluoromethane		< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethene		< 0.001	< 0.001	< 0.001	< 0.001
Trans 1,2-Dichloroethene		< 0.001	< 0.001	< 0.001	< 0.001
1,1-Dichloroethane		< 0.001	< 0.001	<0.001	<0.001
cis 1,2-Dichloroethene		< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane		< 0.005	< 0.005	< 0.005	< 0.005
Trichloromethane		< 0.001	< 0.001	<0.001	<0.001
1,1,1-Trichloroethane	57,000 (1,425)vap	<0.001	< 0.001	<0.001	<0.001
Tetrachloromethane		<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene		<0.001	<0.001	<0.001	<0.001
Benzene	21.0000	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane		<0.002	<0.002	<0.002	<0.002
Trichloroethene	70.0000	<0.001	< 0.001	<0.001	<0.001
1,2-Dichloropropane		<0.001	< 0.001	<0.001	<0.001
Dibromomethane		<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	-	<0.005	<0.005	<0.005	< 0.005
cis-1,3-Dichloropropene		< 0.01	<0.01	<0.01	< 0.01
Toluene		<0.001	<0.001	<0.001	<0.001
Trans-1,3-Dichloropropene	-	<0.01 <0.01	<0.01 <0.01	<0.01 <0.01	<0.01 <0.01
1,1,2-Trichloroethane	810 (424)sol	<0.01	<0.01	<0.01	<0.01
Tetrachloroethene	610 (424)S01	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane Dibromochloromethane		<0.002	<0.002	<0.002	<0.002
1,2-Dibromoethane		<0.005	<0.005	<0.005	<0.005
Chlorobenzene		<0.003	<0.003	<0.003	<0.003
1,1,1,2-Tetrachloroethane	1500.0000	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	1300.0000	<0.002	<0.002	<0.002	<0.002
m & p-Xvlene	+	<0.001	<0.001	<0.001	<0.001
o-Xylene	+	<0.001	<0.001	<0.001	<0.001
Styrene	+	<0.001	<0.001	<0.001	<0.001
Tribromomethane		<0.001	<0.001	<0.001	<0.001
Isopropylbenzene		<0.001	<0.001	<0.001	<0.001
Bromobenzene		<0.001	<0.001	<0.001	<0.001
1,2,3-Trichloropropane		< 0.05	< 0.05	< 0.05	< 0.05
N-Propylbenzene		<0.001	<0.001	<0.001	<0.001
2-Chlorotoluene		<0.001	<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene		<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene		<0.001	<0.001	<0.001	<0.001
Tert-Butylbenzene		<0.001	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene		<0.001	<0.001	<0.001	<0.001
Sec-Butylbenzene		< 0.001	< 0.001	< 0.001	< 0.001
1,3-Dichlorobenzene	390.0000	< 0.001	< 0.001	< 0.001	< 0.001
4-Isopropyltoluene		< 0.001	< 0.001	< 0.001	< 0.001
1,4-Dichlorobenzene	36,000 (224)vap	< 0.001	< 0.001	< 0.001	< 0.001
N-Butylbenzene		< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichlorobenzene	24,000 (571)sol	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dibromo-3-Chloropropane		< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	1,700 (318)vap	< 0.001	< 0.001	< 0.001	< 0.001
Hexachlorobutadiene	48.0000	< 0.001	< 0.001	< 0.001	< 0.001
1,2,3-Trichlorobenzene	770 (134)vap	< 0.002	< 0.002	< 0.002	< 0.002
Methyl Tert-Butyl Ether		< 0.001	< 0.001	< 0.001	< 0.001
N-Nitrosodimethylamine		< 0.050	< 0.050	< 0.050	-
VOC TIC		None Detected	None Detected	None Detected	None Detected

Contaminant GAC	Public Open Space - Park	BH659	BH659	BH659	BH659	BH659	BH660	BH660	BH660	BH660	BH660A	BH660A	BH660A	BH660A	BH665	BH665	BH665	BH665
	1% SOM Depth (m)	7.0	9.0	11.0	12.0	14.0	6.0	7.0	8.0	9.0	9.0	10.0	12.0	13.0	8.0	10.0	11.0	12.0
SVOCs	ma/ka	7.0	5.0	11.0	12.0	14.0	0.0	7.0	0.0	5.0	5.0	10.0	12.0	13.0	0.0	10.0	11.0	12.0
Phenol	760	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.44	< 0.050	< 0.050	< 0.050	2.40	< 0.050	< 0.050
2-Chlorophenol		< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Bis-(2-Chloroethyl)Ether		< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1,3-Dichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1,4-Dichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1,2-Dichlorobenzene	-	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Methylphenol	-	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.10	< 0.050	< 0.050	< 0.050	0.90	< 0.050	< 0.050
Bis(2-Chloroisopropyl	-	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachloroethane	•	< 0.050 < 0.050	< 0.050	< 0.050	< 0.50	< 0.50 < 0.50	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
N-nitrosodi-n-propylamine 4-Methylphenol		< 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.50 < 0.50	< 0.50	< 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 0.36	< 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 3.20	< 0.050 < 0.050	< 0.050 < 0.050
Nitrobenzene	•	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Isophorone	-	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.084	< 0.050	< 0.050	< 0.050	< 0.050
2-Nitrophenol		< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4-Dimethylphenol		< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.25	< 0.050	< 0.050	< 0.050	4.10	< 0.050	< 0.050
Bis(2-chloroethoxy)methane	1700	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4-Dichlorophenol	-	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1,2,4-Trichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Naphthalene		3.9	1.5	63	47	3.60	0.96	10	8.7	69	410	620	7	20	2.1	7200	0.18	4
4-Chloroaniline	-	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachlorobutadiene		< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4-Chloro-3-methylphenol	-	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Methylnaphthalene		0.83	0.46	11	9.8	1.10	0.2	0.22	0.48	8.2	58	78	8.700	9.200	0.47	900.00	0.55	1.40
4-Nitrophenol		< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachlorocyclopentadiene	•	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4,6-Trichlorophenol	•	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4,5-Trichlorophenol	•	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Chloronaphthalene 2-Nitroaniline		< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.50 < 0.50	< 0.50 < 0.50	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050
Acenaphthylene	- :	4.2	0.68	8.7	< 0.50 16	1.90	0.12	2.3	0.52	25	170	350	110	98	1.90	4100	17	< 0.050 11
Dimethylphthalate	-	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,6-Dinitrotoluene		< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Acenaphthene	24000	1.1	2.6	43	50	5.20	0.42	22	1.4	25	130	78	21	10	0.75	940	9.1	5.4
3-Nitroaniline	390	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Dibenzofuran	36000	0.84	0.49	7.5	9.1	1.10	0.1	4.9	0.27	7.1	40	53	11	8.1	0.49	610	4.50	2.30
4-Chlorophenylphenylether		< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4-Dinitrotoluene		< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Fluorene	-	1.6	1.1	14	0.63	2.20	< 0.050	19	0.51	0.38	65	86	47	31	1.00	1100	7.30	4.80
Diethyl phthalate		< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4-Nitroaniline	-	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Methyl-4,6-Dinitrophenol		< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Azobenzene 4-Bromophenylphenyl Ether	-	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50 < 0.50	< 0.050	< 0.050	< 0.050	< 0.050	0.18	< 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	2.3 < 0.050	< 0.050	< 0.050
	- :	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.50 < 0.50	< 0.50	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050 < 0.050
Hexachlorobenzene Pentachlorophenol		< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Phenanthrene	-	3.5	2.5	31	46	4.80	0.52	54	1.3	24	140	190	110	72	3.20	2300.00	1.30	7.30
Anthracene		0.6	0.45	6	7.4	0.84	0.18	7.5	1.5	4.9	24	31	13	8.2	0.60	480.00	2.80	2.30
Carbazole		0.079	< 0.050	0.55	< 0.50	< 0.50	< 0.050	0.4	< 0.050	0.62	2.8	3.3	0.230	0.190	0.08	40.00	0.27	0.10
Di-n-butyl phthalate		< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	0.46	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Fluoranthene		1.9	1.3	14	22	2.30	0.99	30	0.55	12	63	71	49	29	2.30	1000	7.00	7.10
Pyrene	15000	2.4	1.9	18	30	3.20	1.2	41	< 0.050	17	84	110	69	43	2.80	1400	9.70	9.70
Butylbenzyl phthalate	NA	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo(a)anthracene	-	0.33	0.21	2	3.1	< 0.50	0.33	4.3	0.46	2.2	10	9	5.1	3	0.65	130	0.80	0.89
Chrysene	•	0.33	0.21	2.1	3.4	< 0.50	0.39	4.1	0.55	2.1	10	9.3	5.1	3	0.72	160	0.93	1.00
Bis(2-ethylhexyl) phthalate	-	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Di-n-Octyl phthalate	29000	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo(b)fluoranthene	29000	0.41	0.27	2.6	3.7	< 0.50	0.51	4	0.24	2.9	12	11	6.7	4.0	0.91	160	1.10	1.10
Benzo(k)fluoranthene	150000	0.14	0.087	0.8	1.1	< 0.50	0.17	1.2	0.23	0.93	3.5	3	2.1	1.1	0.28	49	0.34	0.33
Benzo(a)pyrene		0.44	0.35	3.3	5.0	0.61	0.5	5.8	0.72	3.6	13	14	8.1	4.6	0.96	230	1.40	1.60
Indeno(1,2,3-cd)pyrene	150	0.23	0.19	1.7	2.4	< 0.50	0.31	2.7	0.43	1.6	7.7	6.8	4.4	2.5	0.47	110	0.71	0.69
Dibenzo(a,h)anthracene	1.1 1400	< 0.050 0.34	< 0.050 0.32	0.16 2.7	< 0.50 3.8	< 0.50 < 0.50	0.065	0.23 4.3	0.1 0.56	0.18 2.3	0.77	0.62	0.410 7.4	0.22 4.2	0.08 0.72	12 170	< 0.050	< 0.050
Benzo(ghi)perylene																		

Contaminant GAC	Public Open Space - Park 1% SOM	BH666	BH666	BH666	BH666	BH667	BH667	BH667	BH667	BH667	BH668							
	Depth (m)	9.0	10.0	11.0	13.0	3.0	6.0	8.0	11.0	13.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0
SVOCs	mg/kg																	
Phenol	760	< 0.050	< 0.050	< 0.050	< 0.050	0.110	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Chlorophenol	•	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Bis-(2-Chloroethyl)Ether	•	< 0.050	< 0.050	< 0.050	< 0.050 < 0.050	0.830	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050 < 0.050
1,3-Dichlorobenzene 1,4-Dichlorobenzene	-	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050
1,2-Dichlorobenzene	<u> </u>	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Methylphenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Bis(2-Chloroisopropyl		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachloroethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
N-nitrosodi-n-propylamine		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4-Methylphenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Nitrobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Isophorone	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Nitrophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4-Dimethylphenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Bis(2-chloroethoxy)methane	1700	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4-Dichlorophenol	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1,2,4-Trichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Naphthalene	•	5.1	16	7.6	4.6	0.2	< 0.050	< 0.050	0.078	0.083	< 0.050	0.50	0.23	0.14	0.079	0.32	0.23	0.29
4-Chloroaniline	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachlorobutadiene	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4-Chloro-3-methylphenol 2-Methylnaphthalene	-	< 0.050 1.70	< 0.050 4.70	< 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 0.110	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050	< 0.050 0.250	< 0.050 0.170
4-Nitrophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachlorocyclopentadiene	- :	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4,6-Trichlorophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4,5-Trichlorophenol	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Chloronaphthalene	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Nitroaniline	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Acenaphthylene		9.80	24	9.70	4.90	0.150	< 0.050	< 0.050	< 0.050	0.097	< 0.050	0.16	0.690	0.087	< 0.050	0.16	0.12	0.15
Dimethylphthalate	-	< 0.050	< 0.050	< 0.050	< 0.050	0.150	< 0.050	0.220	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,6-Dinitrotoluene	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Acenaphthene	24000	3.3	8.0	2.8	3.1	0.090	< 0.050	< 0.050	0.180	0.570	< 0.050	0.80	< 0.050	< 0.050	0.170	0.580	0.230	0.530
3-Nitroaniline	390	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Dibenzofuran	36000	2.00	5.10	1.90	1.30	0.240	< 0.050	< 0.050	0.100	0.097	< 0.050	0.44	0.190	0.099	< 0.050	0.300	0.110	0.270
4-Chlorophenylphenylether		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4-Dinitrotoluene	•	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Fluorene	-	3.70 < 0.050	9.40	4.00	3.00 < 0.050	0.240	< 0.050	0.061	0.210	0.180	< 0.050	0.68	0.420 < 0.050	0.240	0.110	0.410 < 0.050	0.200 < 0.050	0.370 < 0.050
Diethyl phthalate		< 0.050	< 0.050	< 0.050 < 0.050	< 0.050	0.120 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050
4-Nitroaniline 2-Methyl-4,6-Dinitrophenol	- : -	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Azobenzene	<u> </u>	< 0.050	< 0.050	< 0.050	< 0.050	0.110	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4-Bromophenylphenyl Ether		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Pentachlorophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Phenanthrene		6.70	17.00	10.00	8.40	1,500	0.230	0.270	1,000	0.370	< 0.050	2.30	1,200	1,100	0.250	3.200	0.610	2.900
Anthracene		1.50	3.40	1.70	1.50	0.230	0.062	0.074	0.350	0.210	< 0.050	0.57	0.310	0.260	0.066	0.510	0.130	0.460
Carbazole	-	0.13	0.30	0.19	0.13	0.170	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.22	0.080	0.110	< 0.050	0.320	< 0.050	2.200
Di-n-butyl phthalate	-	< 0.050	0.10	< 0.050	< 0.050	0.440	0.093	0.150	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Fluoranthene	-	4.40	9.40	5.50	5.20	1.600	0.370	0.440	1.900	1.300	< 0.050	2.20	1.200	1.200	0.240	3.200	0.430	2.900
Pyrene	15000	6.10	13.00	7.50	7.10	1.300	0.370	0.410	1.600	1.600	< 0.050	1.70	1.500	1.200	0.290	2.900	0.530	2.600
Butylbenzyl phthalate	NA	< 0.050	0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo(a)anthracene	•	0.61	1.20	1.10	0.97	0.570	0.140	0.140	0.910	0.460	< 0.050	0.51	0.250	0.260	0.066	1.000	0.430	0.930
Chrysene	•	0.60	1.40	1.10	1.00	0.710	0.190	0.170	0.860	0.390	< 0.050	0.57	0.330	0.330	0.066	1.000	0.600	0.940
Bis(2-ethylhexyl) phthalate	-	< 0.050	0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Di-n-Octyl phthalate	29000 29000	0.12 0.71	< 0.050	< 0.050	< 0.050	< 0.050 0.600	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050 0.290	< 0.050	< 0.050	< 0.050	< 0.050
Benzo(b)fluoranthene Benzo(k)fluoranthene	150000	0.71	1.60 0.41	1.50 0.42	1.60 0.42	0.600	0.200 0.078	0.170	1.200 0.400	0.600 0.120	< 0.050 < 0.050	0.36 0.12	0.320 0.110	0.290	0.092 < 0.050	1.200 0.380	0.930	1.100 6.500
,	150000	1.00	1.90	2.00	2.10	0.290	0.078	0.061	1.100	0.120			0.110	0.087	< 0.050 0.079	0.380	0.290	0.830
Benzo(a)pyrene	150	0.40	0.92	1.00	1.30	0.480	0.160	0.160	0.660	0.360	< 0.050 < 0.050	0.32	0.360	0.260	< 0.079	0.920	0.730	0.830
Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene	1.1	< 0.40	0.92	0.16	0.42	0.260	< 0.050	< 0.050	0.660	0.360	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.360	1.100
Benzo(ghi)perylene	1400	0.76	1.40	1.80	2.30	0.29	< 0.050	0.050	0.160	0.069	< 0.050	0.20	0.35	0.050	< 0.050	0.58	0.120	0.49
DOLLED (MILITIPOLITICITE	1700	0.70		1.00	2.00	0.20	. 0.000	V.17	0.77	0.00	< 0.030	V.CU	0.00	V.E 1	. 0.000	0.00	0.07	0.70

				I										I	22-15042	22-15042	22-15042	
Contaminant GAC	Public Open Space - Park 1% SOM	BH669	ВН669	BH669	BH669	BH670	BH670	BH671	BH671	BH671	BH673	ВН673	BH673	BH673	BH674	BH674	BH674	BH675
SVOCs	Depth (m) mg/kg	7.0	9.0	11.0	13.5	5.0	6.0	2.00	3.00	5.00	3.0	4.0	5.0	6.0	2.0	4.0	5.0	4.0
Phenol	760	< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	0.420	0.490	< 0.050	4.80	17.00	0.11	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Chlorophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	0.24	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Bis-(2-Chloroethyl)Ether	•	< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	27.00	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1,3-Dichlorobenzene 1,4-Dichlorobenzene	<u> </u>	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.50 < 0.50	< 0.50 < 0.50	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	0.16 0.16	0.37	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050
1,2-Dichlorobenzene	<u> </u>	< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	2.20	4.80	0.07	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Methylphenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	0.140	0.230	< 0.050	1.10	3.70	0.07	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Bis(2-Chloroisopropyl	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachloroethane	•	< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
N-nitrosodi-n-propylamine 4-Methylphenol		< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.50 < 0.50	< 0.50 < 0.50	< 0.050 0.500	< 0.050 0.390	< 0.050 < 0.050	2.90	6.90 7.40	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050
Nitrobenzene	.	< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Isophorone		< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Nitrophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4-Dimethylphenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	1.80	4.30	0.06	< 0.050	< 0.050	0.05	< 0.050	< 0.050
Bis(2-chloroethoxy)methane 2,4-Dichlorophenol	1700	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.50 < 0.50	< 0.50 < 0.50	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050
1,2,4-Trichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Naphthalene		0.88	0.25	0.32	1.50	< 0.50	< 0.50	0.2	2000	400	38000	46000	810	0.61	0.30	440	890	< 0.050
4-Chloroaniline		< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachlorobutadiene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	0.25	1.40	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4-Chloro-3-methylphenol 2-Methylnaphthalene	-	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.50 < 0.50	< 0.50 < 0.50	< 0.050 0.230	< 0.050 280.000	< 0.050 49.000	< 0.050 4400.00	< 0.050 5300.00	< 0.050	< 0.050 0.82	< 0.050 0.07	< 0.050 90.00	< 0.050	< 0.050 < 0.050
2-Methylnaphthalene 4-Nitrophenol	- : -	< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachlorocyclopentadiene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4,6-Trichlorophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4,5-Trichlorophenol	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Chloronaphthalene 2-Nitroaniline	<u> </u>	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.50 < 0.50	< 0.50 < 0.50	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 0.08	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050
Acenaphthylene		1.80	0.39	0.21	1.9	1.4	< 0.50	0.110	1300.000	270.000	25000.00	29000.00	620.00	7.60	0.32	530.00	710.00	< 0.050
Dimethylphthalate		< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,6-Dinitrotoluene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Acenaphthene	24000	0.77	0.14	0.27	4.20	1.1	< 0.50	0.200	400.000	68.000	6600.00	5100.00	93.00	3.20	0.12	110.00	14.00	< 0.050
3-Nitroaniline Dibenzofuran	390 36000	< 0.050	< 0.050	< 0.050 0.12	< 0.050	< 0.50 < 0.50	< 0.50 < 0.50	< 0.050 0.095	< 0.050 180.000	< 0.050 33.000	< 0.050 2600.00	< 0.050 2900.00	< 0.050 65.00	< 0.050	< 0.050 < 0.050	< 0.050 68.00	< 0.050	< 0.050 < 0.050
4-Chlorophenylphenylether	30000	< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4-Dinitrotoluene	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Fluorene		1.20	0.17	0.25	1.90	0.9	< 0.50	0.180	480.000	81.000	6600.00	7700.00	160.00	4.00	0.16	170.00	230.00	0.094
Diethyl phthalate		< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	0.44	1.20	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4-Nitroaniline 2-Methyl-4.6-Dinitrophenol	•	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.50 < 0.50	< 0.50 < 0.50	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050
Azobenzene	· :	< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	0.560	< 0.050	7.70	4.30	0.11	< 0.050	0.10	0.27	< 0.050	< 0.050
4-Bromophenylphenyl Ether		< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Pentachlorophenol	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Phenanthrene		3.30	0.42	0.79	4.80	2.1	< 0.50	0.550	990.000	190.000	14000.00	16000.00	350.00	7.40	0.25	360.00 61.00	470.00	0.520
Anthracene Carbazole	- :	0.48	0.07 < 0.050	0.20	0.87 < 0.050	< 0.50 < 0.50	< 0.50 < 0.50	0.120 < 0.050	190.000 2.300	28.000 1.700	2500.00 150.00	2700.00 180.00	59.00 2.20	1.90	0.09 < 0.050	3.30	8.60 0.62	0.160 0.210
Di-n-butyl phthalate		< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	1.30	2.70	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Fluoranthene		2.40	0.41	1.10	2.70	1.8	0.87	0.380	500.000	93.000	6600.00	7900.00	160.00	5.60	0.14	170.00	20.00	0.680
Pyrene	15000	2.70	0.53	1.10	3.80	2.30	0.76	0.480	700.000	130.000	8300.00	11000.00	220.00	7.40	0.17	240.00	300.00	0.560
Butylbenzyl phthalate	NA	< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo(a)anthracene Chrysene	- :	0.56 0.73	0.18	0.39	0.41	< 0.50 < 0.50	< 0.50 < 0.50	0.380	68.000 72.000	9.400 10.000	870.00 890.00	1000.00 860.00	13.00 13.00	0.88	0.07	16.00 16.00	3.60 3.50	0.330 0.280
Bis(2-ethylhexyl) phthalate	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	4.90	33.00	< 0.050	< 0.050	< 0.050	0.46	< 0.050	< 0.050
Di-n-Octyl phthalate	29000	< 0.050	< 0.050	< 0.050	< 0.050	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo(b)fluoranthene	29000	0.94	0.18	0.62	0.59	0.59	0.56	0.830	84.000	14.000	1100.00	1200.00	17.00	1.10	< 0.050	20.00	4.40	0.360
Benzo(k)fluoranthene	150000	0.30	0.07	0.22	0.17	< 0.50	< 0.50	0.260	6.700	3.700	250.00	310.00	5.00	0.38	< 0.050	7.00	1.30	0.340
Benzo(a)pyrene	150	0.94	0.14	0.60	0.84	0.65 < 0.50	< 0.50 < 0.50	0.650 0.320	120.000 53.000	21.000 8.700	1300.00	1500.00	37.00 18.00	1.50 0.89	< 0.050 < 0.050	41.00 15.00	5.80 3.30	0.260 0.160
Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene	1.1	0.44	0.07 < 0.050	0.29 < 0.050	0.38 < 0.050	< 0.50	< 0.50	6.200	5.300	0.960	690.00 61.00	780.00 28.00	2.00	0.89	< 0.050	1.60	0.33	< 0.050
Benzo(ghi)perylene	1400	0.67	0.08	0.39	0.69	< 0.50	< 0.50	0.310	85	14	1100	1200	36	1.40	< 0.050	43	5.5	0.160

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Contaminant GAC	Public Open Space - Park 1% SOM	BH676	BH676	BH676	BH676	BH676	BH676	BH677	BH677	BH677	BH679	BH679	ВН679
	Depth (m)	2.0	4.0	6.0	7.0	8.0	12.0	6.0	9.0	12.0	6.0	8.0	9.0
SVOCs	mg/kg												
Phenol	760	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Chlorophenol Bis-(2-Chloroethyl)Ether		< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050
1,3-Dichlorobenzene	<u> </u>	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1,4-Dichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.460	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1,2-Dichlorobenzene	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Methylphenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Bis(2-Chloroisopropyl	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachloroethane	•	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
N-nitrosodi-n-propylamine		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4-Methylphenol	<u> </u>	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Nitrobenzene	- :	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 0.058	< 0.050 < 0.050	< 0.050 0.062
Isophorone 2-Nitrophenol	- : -	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4-Dimethylphenol	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Bis(2-chloroethoxy)methane	1700	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4-Dichlorophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1,2,4-Trichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Naphthalene		0.570	11.0	7.1	1.2	1.5	0.15	0.17	0.085	< 0.050	290	0.084	< 0.050
4-Chloroaniline	•	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachlorobutadiene	:	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4-Chloro-3-methylphenol 2-Methylnaphthalene	- : -	< 0.050 0.240	< 0.050 0.560	< 0.050 5.900	< 0.050 1.100	< 0.050 1.000	< 0.050 0.081	< 0.050 0.100	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 110	< 0.050 < 0.050	< 0.050 < 0.050
4-Nitrophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachlorocyclopentadiene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4,6-Trichlorophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4,5-Trichlorophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Chloronaphthalene	•	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Nitroaniline	•	< 0.050	< 0.050	< 0.050 27.000	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Acenaphthylene Dimethylphthalate	<u> </u>	5.800 < 0.050	0.800	< 0.050	6.500 < 0.050	5.100 < 0.050	0.430 < 0.050	0.170 < 0.050	0.220 < 0.050	0.340 < 0.050	660 < 0.050	0.230 < 0.050	0.074 < 0.050
2,6-Dinitrotoluene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Acenaphthene	24000	5.100	8.600	42.000	34.000	14.000	0.450	0.140	0.097	0.620	160	0.110	< 0.050
3-Nitroaniline	390	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Dibenzofuran	36000	0.890	1.200	7.900	2.600	1.700	0.094	< 0.050	< 0.050	0.120	120	0.084	< 0.050
4-Chlorophenylphenylether		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4-Dinitrotoluene	•	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Fluorene	-	4.500 < 0.050	2.800 < 0.050	25.000 < 0.050	12.000 < 0.050	6.700 < 0.050	0.310 < 0.050	0.140 < 0.050	0.130 < 0.050	0.450 < 0.050	240 < 0.050	0.200 < 0.050	< 0.050 < 0.050
Diethyl phthalate 4-Nitroaniline	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Methyl-4,6-Dinitrophenol		< 0.050	< 0.050	6.600	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Azobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4-Bromophenylphenyl Ether		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Pentachlorophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Phenanthrene	•	11.000	6.800	53.000	21.000	12.000	0.810	0.430	0.410	0.920	500	0.550	0.099
Anthracene Carbazole		4.900 0.097	1.500 0.100	11.000	3.500 1.200	2.300 0.620	0.140 < 0.050	0.120 < 0.050	0.085	0.170 < 0.050	89 3.1	0.140 < 0.050	< 0.050 < 0.050
Di-n-butyl phthalate	.	< 0.050	< 0.050	0.130	< 0.050	< 0.050	< 0.050	0.085	0.085	< 0.050	< 0.050	< 0.050	< 0.050
Fluoranthene		47.000	6.600	35.000	12.000	7.300	0.530	0.490	0.310	0.670	200	0.380	0.160
Pyrene	15000	55.000	8.100	47.000	16.000	9.400	0.740	0.560	0.440	0.890	280	0.520	0.210
Butylbenzyl phthalate	NA	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo(a)anthracene		9.900	1.500	6.200	2.100	1.300	0.110	0.170	0.061	0.099	27	0.110	< 0.050
Chrysene	•	9.300	1.400	5.500	1.800	1.100	0.081	0.120	0.061	0.099	30	0.130	< 0.050
Bis(2-ethylhexyl) phthalate	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.790	< 0.050
Di-n-Octyl phthalate	29000 29000	< 0.050 14.000	< 0.050 2.200	< 0.050 8.100	< 0.050 2.800	< 0.050 1.700	< 0.050 0.140	< 0.050 0.120	< 0.050 0.085	< 0.050 0.120	< 0.050 38.0	< 0.050 0.160	< 0.050 < 0.050
Benzo(b)fluoranthene Benzo(k)fluoranthene	150000	4.300	0.580	2.000	2.800 0.850	0.460	< 0.050	< 0.050	< 0.085	< 0.050	38.0 7	0.160	< 0.050 < 0.050
Benzo(a)pyrene	-	14.000	2.000	8.700	2.900	1.800	0.220	0.140	0.110	0.140	40	0.180	< 0.050
Indeno(1,2,3-cd)pyrene	150	9.300	1.300	5.300	1.500	1.100	0.094	< 0.050	< 0.050	0.074	22	0.140	< 0.050
Dibenzo(a,h)anthracene	1.1	0.830	0.180	0.220	0.160	0.079	< 0.050	< 0.050	< 0.050	< 0.050	1.3	< 0.050	< 0.050
Benzo(ghi)perylene	1400	7.2	1.9	7.8	2.8	1.7	0.054	< 0.050	< 0.050	< 0.050	35	0.170	< 0.050

Mobuoy Road Waste Site Remediation Soils Screening Addition TPs (CIW)

	Public Open Space -			
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---|---|---|--

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--|---|--
--|---|
| Contaminant GAC | Park (1% SOM) | TP652 | TP652 | TP652 | TP652
 | TP653 | TP653 | TP654
 | TP654 | TP654 | TP655 | TP655
 | TP655 | TP656 | TP656 | TP657
 | TP657 | TP657
 | TP658 | TP658 | TP659
 | TP659 |
| | Depth (m)
mg/kg | 1.0 | 3.0 | 5.0 | 6.0
 | 2.0 | 3.0 | 1.0
 | 5.0 | 6.0 | 2.0 | 4.0
 | 6.0 | 2.0 | 6.0 | 2.0
 | 4.0 | 5.0
 | 2.0 | 5.0 | 1.0
 | 2.0 |
| Inorganic Arsenic
Cadmium | 170
532 | 4.7
0.12 | 6
0.16 | 5.6
0.35 | 2.7
< 0.10
 | 7
0.32 | 2.8
0.15 | 5.8
0.13
 | 6
0.14 | 1.7
0.13 | 3.4
< 0.10 | 4.3
0.17
 | 1.2 | 4.6
0.14 | 0.7
< 0.10 | 5
0.14
 | 5.4
< 0.10 | 5
< 0.10
 | 6.4
0.16 | 9.8
0.13 | 4
< 0.10
 | 8.9
0.13 |
| Boron | 46000 | 0.86 | 1.4 | 4.6 | 0.67
 | 6.6 | 5.6 | 3.4
 | 1.9 | 1.2 | 1.1 | 4.1
 | < 0.10 | 2.3 | 1.1 | 3.3
 | < 0.40 | < 0.40
 | 2.2 | 1.4 | 1.2
 | 0.88 |
| Chromium (total)
Copper | 33000
44000 | 14
46 | 23
56 | 15
38 | 8.9
16
 | 16
180 | 7 | 80
26
 | 12
28 | 3.6
6.5 | 14 | - 50
 | 12 | 21 | 2.7 | 13
33
 | 13
25 | 16
28
 | 12
330 | 36 | 11
19
 | 14
27 |
| Inorganic Mercury | 240 | < 0.05 | 0.06 | 0.06 | < 0.05
 | < 0.05 | < 0.05 | < 0.05
 | 0.06 | < 0.05 | < 0.05 | < 0.05
 | < 0.05 | < 0.05 | < 0.05 | < 0.05
 | < 0.05 | < 0.05
 | 0.05 | < 0.05 | < 0.05
 | < 0.05 |
| Nickel
Lead | 800
1300 | 19
29 | 22
39 | 37
44 | 7.9
 | 23
1500 | 13
32 | 47
15
 | 17
34 | 4.3
3.5 | 12
29 | 13
46
 | 8.8
6.8 | 14
17 | 3.9
1.1 | 18
28
 | 22
14 | 30
16
 | 17
50 | 21
24 | 18
16
 | 21 |
| Selenium
Zinc | 1800
170000 | 0.4
150 | 0.41
180 | 0.36
270 | < 0.25
 | 0.41
590 | 0.28 | 0.31
 | 0.4
87 | 0.46
10 | 0.25
50 | 0.27
93
 | 0.29
27 | 0.5
56 | 0.28
4.7 | 0.39
 | 0.37
54 | 0.41
53
 | 0.36 | 0.51
76 | 0.25
83
 | 0.57
110 |
| Chromium (Trivalent) | | | - | - |
 | - | - | -
 | - | - | 8.9 | 11
 | 9 | 10 | 1.8 |
 | - | -
 | | 15 | -
 | - |
| Chromium VI
Manganese | 220 | < 0.50 | < 0.50 | < 0.50 | < 0.50
 | < 0.50 | < 0.50 | < 0.50
 | < 0.50 | < 0.50 | < 0.50
190 | < 0.50
210
 | < 0.50
89 | < 0.50
280 | < 0.50 | < 0.50
 | < 0.50 | < 0.50
 | < 0.50 | < 0.50
740 | < 0.50
 | < 0.50 |
| Iron (Available) | | - | - | - |
 | - | - | -
 | - | - | 9400 | 10000
 | 11000 | 3900
< 0.5 | 41000
< 0.5 |
 | - | -
 | - | 6300
< 0.5 | -
 | |
| Vanadium | | - | | - |
 | - | |
 | - | | < 0.5
8.1 | < 0.5
8.9
 | < 0.5
7.2 | < 0.5 | < 0.5
1.5 |
 | - |
 | - | < 0.5 | -
 | - |
| Organics
Phenol | mg/kg
440 | < 0.10 | < 0.10 | < 0.10 | < 0.10
 | e 0 10 | < 0.10 | 0.11
 | < 0.10 | < 0.10 | e 0 10 | 0.22
 | < 0.10 | < 0.10 | < 0.10 | < 0.10
 | e 0 10 | < 0.10
 | 0.13 | < 0.10 | < 0.10
 | < 0.10 |
Total Petroleum Hydrocarbons	mg/kg	1,000		
 | | |
 | | | |
 | | 19119 | |
 | |
 | | |
 | |
| Mineral Oil | | < 10 | 420 | 680 | 170
 | 2000 | 1100 | 2500
 | < 10 | 930 | | -
 | | - | | 190
 | < 10 | 29
 | 240 | | 82
 | 220 |
| Aliphatics
EC>C5-C6 | 95000 | < 1.0 | < 1.0 | <10 | < 1.0
 | < 1.0 | < 1.0 | < 1.0
 | < 1.0 | < 1.0 | < 0.010 | < 0.010
 | < 0.010 | < 0.010 | < 0.010 | < 1.0
 | < 1.0 | < 1.0
 | <10 | | < 1.0
 | < 1.0 |
| EC>C6-C8 | 150000 | < 1.0 | < 1.0 | < 1.0 | < 1.0
 | < 1.0 | < 1.0 | < 1.0
 | < 1.0 | < 1.0 | < 0.010 | < 0.010
 | < 0.010 | < 0.010 | < 0.010 | < 1.0
 | < 1.0 | < 1.0
 | < 1.0 | - | < 1.0
 | < 1.0 |
| EC>C8-C10
EC>C10-C12 | 14000
21000 | < 1.0 | 18 | < 1.0
21 | 9.3
27
 | 32
88 | 17
43 | 13
65
 | < 1.0
< 1.0 | 29
59 | < 0.10 | 20
42
 | < 0.10 | 21
40 | < 0.10 | < 1.0
9.4
 | < 1.0 | < 1.0
< 1.0
 | < 1.0 | < 0.10 | < 1.0
29
 | < 1.0
13 |
| EC>C12-C16 | 25000
450000 | < 1.0
< 1.0 | 27
80 | 28
42 | 26
21
 | 110
280 | 23
140 | 210
370
 | < 1.0
< 1.0 | 39
69 | < 0.10 | 48
68
 | < 0.10 | 81
130 | 8.4
6.2 | 6.6
 | < 1.0
< 1.0 | < 1.0
< 1.0
 | < 1.0
< 1.0 | < 0.10 | < 1.0
23
 | 23
27 |
| EC>C16-C21
EC>C21-C35 | 450000 | < 1.0 | 270 | 590 | 91
 | 1500 | 840 | 1800
 | < 1.0 | 730 | < 0.10 | 550
 | < 0.10 | 490 | 210 | 180
 | < 1.0 | 30
 | 240 | < 0.10 | 30
 | 160 |
| EC>C35-C44 Total aliphatics | 450000
NA | < 1.0
< 5.0 | < 1.0
420 | < 1.0
680 | < 1.0
170
 | < 1.0
2000 | < 1.0
1100 | 89
2500
 | < 1.0
< 5.0 | < 1.0
930 | < 0.10 | < 0.10
730
 | < 0.10 | < 0.10
760 | < 0.10 | < 1.0
190
 | < 1.0
< 5.0 | < 1.0
30
 | < 1.0
240 | < 0.10 | < 1.0
82
 | < 1.0
220 |
| Aromatics
EC 5-7 (benzene) | 76000 | < 1.0 | < 1.0 | < 1.0 | < 1.0
 | < 1.0 | < 1.0 | < 1.0
 | < 1.0 | < 1.0 | < 0.010 | < 0.010
 | < 0.010 | < 0.010 | < 0.010 | < 1.0
 | < 1.0 | < 1.0
 | < 1.0 | < 0.010 | < 1.0
 | < 1.0 |
| EC>C7-C8 (toluene) | 87000 | < 1.0 | < 1.0 | < 1.0 | < 1.0
 | < 1.0 | < 1.0 | < 1.0
 | < 1.0 | < 1.0 | < 0.010 | < 0.010
 | < 0.010 | < 0.010 | < 0.010 | < 1.0
 | < 1.0 | < 1.0
 | < 1.0 | < 0.010 | < 1.0
 | < 1.0 |
| EC>C8-C10
EC>C10-C12 | 7200
9200 | < 1.0 | 16
< 1.0 | < 1.0
< 1.0 | < 1.0
< 1.0
 | 630
740 | 19
< 1.0 | 44
62
 | < 1.0
< 1.0 | < 1.0
< 1.0 | < 0.10 | < 0.10
 | < 0.10 | < 0.10
< 0.10 | < 0.10 | 6.5
< 1.0
 | < 1.0
< 1.0 | < 1.0
< 1.0
 | < 1.0
< 1.0 | < 0.10 | < 1.0
< 1.0
 | < 1.0
< 1.0 |
| EC>C12-C16 | 10000
7600 | < 1.0
< 1.0 | < 1.0
40 | 6
140 | < 1.0
17
 | 470
550 | 32
170 | 94
290
 | < 1.0 | < 1.0 | < 0.10 | < 0.10
 | < 0.10 | 23
59 | < 0.10 | < 1.0
6.7
 | < 1.0
< 1.0 | < 1.0
 | < 1.0 | < 0.10 | 390
< 1.0
 | < 1.0 |
| EC>C16-C21
EC>C21-C35 | 7800 | < 1.0 | 1600 | 860 | 94
 | 1700 | 750 | 2000
 | < 1.0
< 1.0 | 1400 | < 0.10
< 0.10 | 770
 | < 0.10 | 640 | < 0.10
520 | 330
 | < 1.0 | < 1.0
76
 | 4.6
140 | < 0.10
< 0.10 | 1600
 | < 1.0
160 |
| EC>C35-C44
Total aromatics | 7800
NA | < 1.0
< 5.0 | < 1.0
1600 | < 1.0
1000 | < 1.0
110
 | 33
4100 | 30
990 | 110
2500
 | < 1.0
< 5.0 | 460
1900 | < 0.10
< 1.0 | < 0.10
 | < 0.10 | 15
740 | < 0.10
520 | < 1.0
340
 | < 1.0
< 5.0 | < 1.0
76
 | < 1.0
140 | < 0.10
< 1.0 | < 1.0
2000
 | 43
210 |
| Total Aliphatics and Aromatics | NA | < 10 | 2100 | 1700 | 280
 | 6100 | 2100 | 5100
 | < 10 | 2800 | < 2.0 | 950
1700
 | < 2.0 | 1500 | 760 | 530
 | < 10 | 76
110
 | 380 | < 2.0 | 2000
 | 430 |
| BTEX & MTBE
Benzene | mg/kg
90 | <0.001 | <0.001 | <0.001 | <0.001
 | <0.001 | <0.001 | <0.001
 | <0.001 | <0.001 | < 0.0010 | < 0.0010
 | < 0.0010 | < 0.0010 | < 0.0010 | <0.001
 | <0.001 | <0.001
 | <0.001 | < 0.0010 | <0.001
 | <0.001 |
| Toluene
Ethylbenzene | 87000
17000 | < 0.001 | < 0.001 | < 0.001 | < 0.001
 | < 0.001 | <0.001 | <0.001
 | < 0.001 | <0.001 | < 0.0010 | < 0.0010
 | < 0.0010 | < 0.0010 | < 0.0010 | < 0.001
 | < 0.001 | < 0.001
 | < 0.001 | < 0.0010 | < 0.001
 | < 0.001 |
| | | -0.001 | | -0.001 | -0.001
 | -0.001 | | 0.0027
 | -0.001 | -0.001 | - 0.0010 | - 0.0010
 | | - 0.0010 | - 0.0010 |
 | |
 | | |
 | -0.001 |
| m&p-xylene | 170000 | <0.001
<0.001 | <0.001
<0.001 | <0.001
<0.001 | <0.001
<0.001
 | <0.001
<0.001 | 0.0022
0.0028 | 0.0037
0.0062
 | <0.001
<0.001 | <0.001
<0.001 | < 0.0010
< 0.0010 | < 0.0010
< 0.0010
 | < 0.0010
< 0.0010 | < 0.0010
< 0.0010 | < 0.0010
< 0.0010 | <0.001
 | <0.001 | <0.001
<0.001
 | <0.001
<0.001 | < 0.0010 | <0.001
 | <0.001
0.0027 |
| m&p-xylene
o-xylene
MTBE | | | | |
 | | 0.0022 | 0.0037
0.0062
0.0045
<0.001
 | | | < 0.0010
< 0.0010
< 0.0010
< 0.0010 |
 | < 0.0010 | | | < 0.001
 | < 0.001 | < 0.001
 | < 0.001 | < 0.0010 | < 0.001
 | <0.001
0.0027
0.0016
<0.001 |
| o-xylene | 170000
17000 | <0.001
<0.001 | <0.001
<0.001 | <0.001
<0.001 | <0.001
<0.001
 | <0.001
<0.001 | 0.0022
0.0028
0.0034 | 0.0062
0.0045
 | <0.001
<0.001 | <0.001
<0.001 | < 0.0010
< 0.0010 | < 0.0010
< 0.0010
 | < 0.0010
< 0.0010
< 0.0010 | < 0.0010
< 0.0010 | < 0.0010
< 0.0010 | <0.001
<0.001
<0.001
 | <0.001
<0.001
<0.001 | <0.001
<0.001
<0.001
 | <0.001
<0.001
<0.001 | < 0.0010
< 0.0010
< 0.0010 | <0.001
<0.001
<0.001
 | 0.0027
0.0016 |
| o-xylene MTBE Polycyclic Aromatic Hydrocarbons Naphthalene | 170000
17000
NA
mg/kg
1200 | <0.001
<0.001
<0.001
<0.001 | <0.001
<0.001
<0.001
<0.010 | <0.001
<0.001
<0.001
8.4 | <0.001
<0.001
<0.001
< 0.010
 | <0.001
<0.001
<0.001 | 0.0022
0.0028
0.0034
<0.001 | 0.0062
0.0045
<0.001
 | <0.001
<0.001
<0.001 | <0.001
<0.001
<0.001
<0.010 | < 0.0010
< 0.0010
< 0.0010 | < 0.0010
< 0.0010
< 0.0010
 | < 0.0010
< 0.0010
< 0.0010
< 0.0010
< 0.0010 | < 0.0010
< 0.0010
< 0.0010
< 0.010 | < 0.0010
< 0.0010
< 0.0010
< 0.010 | <0.001
<0.001
<0.001
<0.001
<0.001
 | <0.001
<0.001
<0.001
<0.001 | <0.001
<0.001
<0.001
<0.001
1.2
 | <0.001
<0.001
<0.001
<0.001
<0.001 | < 0.0010
< 0.0010
< 0.0010
< 0.0010 | <0.001
<0.001
<0.001
<0.001
3.1
 | 0.0027
0.0016
<0.001
< 0.010 |
| o-xylene
MTBE
Polycyclic Aromatic Hydrocarbons | 170000
17000
NA
mg/kg
1200
29000 | <0.001
<0.001
<0.001 | <0.001
<0.001
<0.001 | <0.001
<0.001
<0.001 | <0.001
<0.001
<0.001
 | <0.001
<0.001
<0.001 | 0.0022
0.0028
0.0034
<0.001
2.5
0.024
0.17 | 0.0062
0.0045
<0.001
 | <0.001
<0.001
<0.001 | <0.001
<0.001
<0.001 | < 0.0010
< 0.0010
< 0.0010 | < 0.0010
< 0.0010
< 0.0010
 | < 0.0010
< 0.0010
< 0.0010
< 0.0010 | < 0.0010
< 0.0010
< 0.0010 | < 0.0010
< 0.0010
< 0.0010 | <0.001
<0.001
<0.001
<0.001
 | <0.001
<0.001
<0.001
<0.001 | <0.001
<0.001
<0.001
<0.001
 | <0.001
<0.001
<0.001
<0.001 | < 0.0010
< 0.0010
< 0.0010
< 0.0010 | <0.001
<0.001
<0.001
<0.001
 | 0.0027
0.0016
<0.001 |
| o-xylene MTBE Polycyclic Aromatic Hydrocarbons Naphthalene Acenaphthylene Acenaphthene Fluorene | 170000
17000
NA
mg/kg
1200
29000
29000
20000 | <0.001
<0.001
<0.001
<0.001
<0.010
<0.010
<0.010 | <0.001
<0.001
<0.001
<0.010
<0.010
<0.010
<0.010 | <0.001
<0.001
<0.001
<0.001
8.4
0.14
1 | <0.001
<0.001
<0.001
<0.001
<0.010
<0.010
<0.010
 | <0.001
<0.001
<0.001
<0.001
5
0.061
0.25
0.15 | 0.0022
0.0028
0.0034
<0.001
2.5
0.024
0.17 | 0.0062
0.0045
<0.001
1.6
0.017
0.16
0.09
 | <0.001
<0.001
<0.001
<0.001
1.8
0.34
0.17
0.17 | <0.001
<0.001
<0.001
<0.001
<0.010
<0.010
<0.010 | <0.0010
<0.0010
<0.0010
1.4
0.03
0.12
0.033 | < 0.0010
< 0.0010
< 0.0010
1
0.031
0.088
0.18
 | < 0.0010
< 0.0010
< 0.0010
< 0.0010
< 0.010
< 0.010
< 0.010
< 0.010 | <0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010
<0.010 | < 0.0010
< 0.0010
< 0.0010
< 0.010
< 0.010
< 0.010
< 0.010 | <0.001
<0.001
<0.001
<0.001
<0.010
< 0.010
< 0.010
< 0.010
 | <0.001
<0.001
<0.001
<0.001
<0.001
1.8
0.051
0.16 | <0.001
<0.001
<0.001
<0.001
<0.001
1.2
0.023
0.11
0.063
 | <0.001
<0.001
<0.001
<0.001
<0.010
<0.010
<0.010
<0.010 | < 0.0010
< 0.0010
< 0.0010
< 0.0010
< 0.0010
0.37
0.052
0.09 | <0.001
<0.001
<0.001
<0.001
<0.001
3.1
0.15
0.73
0.78
 | 0.0027
0.0016
<0.001
<0.010
<0.010
<0.010
<0.010 |
| o-sylene MTBE Polycyclic Aromatic Hydrocarbons Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene | 170000 17000 NA Mg/kg 1200 29000 29000 20000 6200 150000 | <0.001
<0.001
<0.001
<0.001
<0.010
<0.010
<0.010
0.22
0.12 | <0.001
<0.001
<0.001
<0.010
<0.010
<0.010
<0.010
0.17
0.036 | <0.001
<0.001
<0.001
<0.001
8.4
0.14
1
1.3
3.7
0.4 | <0.001
<0.001
<0.001
<0.010
<0.010
<0.010
<0.010
<0.010
<0.010
 | <0.001
<0.001
<0.001
<0.001
5
0.061
0.25
0.15
0.88
0.11 | 0.0022
0.0028
0.0034
<0.001
2.5
0.024
0.17
0.11
0.46
0.078 | 0.0062
0.0045
<0.001
1.6
0.017
0.16
0.09
0.36
0.063
 | <001
<0.001
<0.001
<0.001
1.8
0.34
0.17
0.17
0.55
0.17 | <0.001
<0.001
<0.001
<0.010
<0.010
<0.010
<0.010
<0.010
<0.010 | <.0.0010
<.0.0010
<.0.0010
1.4
0.03
0.12
0.033
0.11
0.051 | < 0.0010
< 0.0010
< 0.0010
1 0.031
0.088
0.18
0.89
0.13
 | < 0.0010
< 0.0010
< 0.0010
< 0.0010
< 0.010
< 0.010
< 0.010
< 0.010
< 0.010
< 0.010
< 0.010 | <0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010
<0.010
0.29
0.072 | < 0.0010
< 0.0010
< 0.0010
< 0.0010
< 0.010
< 0.010
< 0.010
< 0.010
< 0.010
< 0.010 | <0.001
<0.001
<0.001
<0.001
<0.010
<0.010
<0.010
<0.010
<0.010
<0.010
<0.010
 | <0.001
<0.001
<0.001
<0.001
<0.001
1.8
0.051
0.16
0.1
0.26
0.12 | <001
<001
<001
<001
<001
1.2
0.023
0.11
0.063
0.24
0.082
 | <0.001
<0.001
<0.001
<0.001
<0.010
<0.010
<0.010
<0.010
0.48
0.15 | <.0.0010
<.0.0010
<.0.0010
<.0.0010
<.0.0010
0.37
0.052
0.09
0.043
0.22
0.084 | <0.001
<0.001
<0.001
<0.001
<0.001
3.1
0.15
0.73
0.78
2
0.49
 | 0.0027
0.0016
<0.001
<0.010
<0.010
<0.010
<0.010
0.19
0.046 |
| o-sylene MTBE Polycyclic Aromatic Hydrocarbons Naphthalene Acenaphilylene Acenaphilylene Fluorene Phenathrene Anthracene Fluoranthene | 170000 17000 17000 NA mg kg 1200 29000 29000 20000 6200 150000 6300 | <0.001
<0.001
<0.001
<0.010
<0.010
<0.010
<0.010
0.22 | <0.001
<0.001
<0.001
<0.010
<0.010
<0.010
<0.010
0.17 | <0.001
<0.001
<0.001
<0.001
8.4
0.14
1
1.3
3.7 | <0.001
<0.001
<0.001
<0.010
<0.010
<0.010
<0.010
<0.010
 | <0.001
<0.001
<0.001
<0.001
5
0.061
0.25
0.15
0.88 | 0.0022
0.0028
0.0034
<0.001
2.5
0.024
0.17
0.11
0.46 | 0.0062
0.0045
<0.001
1.6
0.017
0.16
0.09
 | <0.001
<0.001
<0.001
1.8
0.34
0.17
0.17
0.55 | <0.001
<0.001
<0.001
<0.010
<0.010
<0.010
<0.010
<0.010 | <.0.0010
<.0.0010
<.0.0010
1.4
0.03
0.12
0.033
0.11 | < 0.0010
< 0.0010
< 0.0010
1
0.031
0.088
0.18
0.89
 | < 0.0010
< 0.0010
< 0.0010
< 0.0010
< 0.0010
< 0.010
< 0.010
< 0.010
< 0.010
< 0.010 | <0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010
<0.010
0.29 | < 0.0010
< 0.0010
< 0.0010
< 0.010
< 0.010
< 0.010
< 0.010
< 0.010 | <0.001
<0.001
<0.001
<0.001
<0.010
< 0.010
< 0.010
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< 0.010
 | <0.001
<0.001
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<0.001
<0.001
1.8
0.051
0.16
0.1
0.26 | <001
<0.001
<0.001
<0.001
<0.001
1.2
0.023
0.11
0.063
0.24
 | <0.001
<0.001
<0.001
<0.001
<0.010
<0.010
<0.010
<0.010
0.48 | < 0.0010
< 0.0010
< 0.0010
< 0.0010
< 0.0010
0.37
0.052
0.09
0.043
0.22 | <0.001
<0.001
<0.001
<0.001
<0.001
3.1
0.15
0.73
0.78
2
 | 0.0027
0.0016
<0.001
<0.010
<0.010
<0.010
<0.010
0.19 |
| o-sylene MTBE Polycyclic Aromatic Hydrocarbons Naphthalene Acessphriyene Acessphriyene Acessphriyene Acessphriyene Acessphriyene Anthracene Furanthene Furanthene Pryene Benz(a)anthracene | 170000
17000
NA
mg kg
1200
29000
29000
20000
6200
150000
6300
15000
15000 | <0.001
<0.001
<0.001
<0.010
<0.010
<0.010
<0.010
<0.010
0.022
0.12
0.65
0.62
0.59 | <0.001
<0.001
<0.001
<0.010
<0.010
<0.010
<0.010
<0.010
0.17
0.036
0.41
0.71 | <0.001
<0.001
<0.001
8.4
0.14
1
1.3
3.7
0.4
1.8
1.9
<0.010 | <0.001 <0.001 <0.001 <0.001 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010
<0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0 | <0.001 <0.001 <0.001 <0.001 5 0.061 0.25 0.15 0.88 0.11 1 0.98 0.39 | 0.0022
0.0028
0.0034
<0.001
2.5
0.024
0.17
0.11
0.46
0.078
0.4
0.39
0.11 | 0.0062
0.0045
<0.001
1.6
0.017
0.16
0.09
0.36
0.063
0.5
0.54
0.23
 | <.0.001
<.0.001
<0.001
1.8
0.34
0.17
0.17
0.55
0.17
1.3
1.7
0.42 | <0.001
<0.001
<0.001
<0.010
<0.010
<0.010
<0.010
<0.010
<0.010
0.13
0.15
<0.010 | <.0.0010
<.0.0010
<.0.0010
1.4
0.03
0.12
0.033
0.11
0.051
0.25
0.3
0.13 | <.0.0010
<.0.0010
<.0.0010
<.0.0010
1
0.031
0.088
0.18
0.89
0.13
0.87
0.69
 | <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.0 | <0.0010
<0.0010
<0.0010
<0.0010
<0.010
<0.010
<0.010
<0.010
0.029
0.072
0.29
0.24
<0.010 | <0.0010
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<0.010 | <0.001
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 | <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.051 <0.16 <0.1 <0.26 <0.12 <0.43 <0.49 <0.22 | <0.001 <0.001 <0.001 <0.001 <0.001 <0.003 <0.11 <0.063 <0.24 <0.082 <0.39 <0.42 <0.021
 | <0.001
<0.001
<0.001
<0.001
<0.010
<0.010
<0.010
<0.010
0.48
0.15
0.79
0.83
0.37 | <.0.0010
<0.0010
<0.0010
<0.0010
<0.0010
0.37
0.052
0.09
0.043
0.22
0.084
0.46
0.48 | <.0.001
<0.001
<0.001
<0.001
<0.001
3.1
0.15
0.73
0.78
2
0.49
1.6
1.5
0.74
 | 0.0027
0.0016
<0.001
<0.010
<0.010
<0.010
<0.010
0.019
0.046
0.36
0.32
<0.010 |
| o-sylene MTBE Polycyclic Aromatic Hydrocarbons Naphthalene Acenephnylene Acenephnylene Acenephnylene Anthracene Furanthere Furanthere Pyrene Benz (a)anthracene Chysene Benz (b)buranthene Benz (b)buranthene | 170000 17000 17000 NA mg kg 1200 29000 29000 6200 6200 65000 65000 65000 49 93 13 | <.0.001
<0.001
<0.001
<0.001
<0.010
<0.010
<0.010
<0.010
0.022
0.12
0.65
0.62
0.63
0.63 | <0.001 <0.001 <0.001 <0.010 <0.010 <0.010 <0.010 <0.010 <0.017 <0.036 <0.41 <0.71 <0.24 <0.8 <0.7 | <0.001 <0.001 <0.001 <0.001 <0.014 1 1.3 3.7 0.4 1.8 1.9 <0.010 <0.010 <0.010 | <0.001 <0.001 <0.001 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010
<0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0 | <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 | 0.0022
0.0028
0.0034
<0.001
2.5
0.024
0.17
0.11
0.46
0.078
0.4
0.39
0.11
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GACs are the LQM S4ULs with 1% SOM with the exception of those listed below:-

The GAC for lead is the C4SL derived using a Low Level of Toxicological Concern (LLTC) of 3.5ug/dL blood lead.

Free Cyanide - WYG derived using CLEA. See WYG Technical Memorandum: Derivation of a SSV.

APPENDIX 7 – SOILS LABORATORY TEST CERTIFICATES

DIGITAL APPENDIX

APPENDIX 8 – SOILS LEACHATE TESTING SUMMARY

Leachate Screening Round 1 - CIW Mobuoy Road Waste Site Remediation

Sample Point /											
Determinands	TSV	BH610	BH644	BH644	BH644	BH645	BH645	BH645	BH646	BH646	BH646
	Depth (m)	2.0	2.0	5.0	8.0	0.7	3.0	9.0	2.0	5.0	7.0
HEAVY METALS Arsenic (diss filt)	μg/l 50 (AA) (1) 25 (AA (2)	4.5	4.5	7.3	3.4	5.1	4.1	1.4	0.89	1.0	4.5
Boron (diss.filt)	1000 (5)	210	27	99	190	560	220	54	65	32	150
Barium (diss.filt) Beryllium (diss.filt)	700 (8)	15 < 1.0	11 < 1.0	< 5.0 < 1.0	14 < 1.0	66 < 1.0	< 5.0 < 1.0	6.4 < 1.0	17 < 1.0	< 5.0 < 1.0	12 < 1.0
	0.09 (AA) & 0.6 (MAC) (1)										
Cadmium (diss.filt)	0.6 (AA) (2) CaCO ₃ 50 - <100	mg/l < 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
C8 Cadmium (Dissolved)		-	-	-	-		< 0.08	< 0.08	-	-	-
Chromium (diss.filt) Copper (diss.filt)	50 (5) 1 (AA) bioavailable (\$100 1) (1) (\$100 NOS 4)	(2) < 0.50	< 0.50	< 0.50	< 0.50 4.7	1.3	2.2	0.95 0.95	< 0.50	< 0.50	< 0.50 8.5
Iron (diss.)	1000 (AA) (1&2)	2	9.0	66	5.6	2.2	0.92	2.1	< 5.0	< 5.0	7.0
Mercury (diss.filt) Manganese (diss.filt)	0.07 MAC (1&2)	< 0.05 42	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Molybdenum (diss.filt)	70 (8)	14	85 7.9	150 92	6.3 8.4	1200 24	6.6	3.2	480 3.8	3.7	3.9 2.5
Nickel (diss.filt)	4(860 8080 5) (AA) (1), 8.6 (AA) (2), 34 (MAC) (1	(&2)	4.7	15	52	24	24	15	4.2	2.7	23
Lead (diss.filt) Antimony (diss.filt)	1.2 ^(see note 5) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182) < 0.50 2.8	0.75	0.95	< 0.50 7.6	1.8	< 0.50	< 0.50	< 0.50	< 0.50	0.55
Selenium (diss.filt)	10(5)	< 0.50	< 0.50	< 0.50	< 0.50	0.93	1.1	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +AB	C (1888 NESS 2) 3.7	5.5	6.2	< 2.5	25	5.2	< 2.5	4.5	< 2.5	3.6
Iron (Total) Manganese (Total)		13 42	9.0 85	66 150	5.6 6.3	83 1200	150 380	10 46	< 5.0 480	< 5.0 44	7.0 3.9
Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (3	2) < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenois Phenois, Total	ug/l 7.7 (1&2) 46 (95th%ile) (1&2)	<0.00003	<0.00003	0.00015	<0.00003	0.0019	< 0.00003	<0.00003	< 0.00003	< 0.00003	< 0.00003
Speciated TPH	ug/l										
Aliphatics EC C5-C6	15000 (7)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C6-C8	15000 (7)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C8-C10 EC>C10-C12	300 (7) 300 (7)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C12-C16	300 (7)	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C16-C21	(-)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C21-C35 FC>C35-C44		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatics >C5-C35		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatics EC C5-C7											
EC>C7-C8	10 (7) 700 (7)	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C8-C10	300 (7)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C10-C12	90 (7)	< 0.10	< 0.10	< 0.10	< 0.10	880	1200	< 0.10	< 0.10	< 0.10	< 0.10
EC>C12-C16 EC>C16-C21	90 (7)	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C21-C35	90 (7)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C35-C44 Total Aromatics >EC5-EC35		< 0.10 < 5.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
tal Aliphatics & Aromatics > C5		< 10	< 10	< 10	< 10	1100	1200	< 10	< 10	< 10	< 10
BTEX/MTBE/GRO	μg/l										
MTBE Benzene	15 (5*) 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (3	370) (2) < 1.0	< 1.0	< 1.0	< 1.0	7.8	2.1	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene p/m-Xvlene	300 (8)	< 1.0 < 1.0	< 1.0	1.6	< 1.0	2.3	2.2 < 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		< 1.0	< 1.0	2.3	< 1.0	3.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Polyaromatic Hydrocabons	μg/l										
Naphthalene (aq) Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Acenaphthene (aq)	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Fluorene (aq) Phenanthrene (aq)	-	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Pyrene (aq) Benzo(a)anthracene (aq)		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Chrysene (aq)	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo(k)fluoranthene (aq) Benzo(a)pyrene (aq)	0.017 (MAC) (1&2) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027	< 0.010 (2)) < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Indeno(1,2,3-cd)pyrene (aq)		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Dibenzo(a,h)anthracene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo(g,h,i)perylene (aq) PAH, Total Detected USEPA		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
INORGANICS	mg/l	11		450	40		000	0.0	40	0.0	24
Dissolved Organic Carbon Alkalinity (Total)	 	11	12 90	150 270	19 210	41 660	200 360	8.8 170	12 150	6.9 79	21 260
Chloride	250 (5)	9.8	4.4	32	20	71	150	19	3.9	8.3	44
Ammonia (Free) Ammonium	0.3 (1)	1.9 27	0.66 4.3	1.7 27	2.8 36	0.34 23	< 0.050	1.2 17	0.15 1.6	0.83 8.9	6.6 44
Ammonium Nitrite		0.042	0.047	0.11	0.052	< 0.020	< 0.020	< 0.020	0.24	0.046	0.049
Nitrate	50 (5)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	23	< 0.50	< 0.50
Sulphate Cyanide (Total) Low-Level	250 (5) 0.001 (AA), 0.005 (95%ije) (182)	98 < 0.050	< 0.050	< 0.050	3.7 < 0.050	490 < 0.050	16 < 0.050	< 0.050	180 < 0.050	16 < 0.050	< 0.050
Potassium	(102)	19	4.2	20	25	21	29	13	5.2	8.8	24
Magnesium Sodium	200(5)	4.6 14	2.8 4.5	6.3	1.6	6.6	14 40	2.7	8.3	2.0	4.1

- The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland; 2015 Freshwater.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of cautedoxidy.

Notes:

Note 1-ECOShooavallable derived via the Metal Bioavallability Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool with pit. DOC and Ca to derive a ECOS referred to as the PNEC/dissolved. http://www.wdisk.org/resources/rever-sixtee-metal-bioavallability-assessment tode in tool with pit. DOC and Ca to derive a ECOS referred to as the PNEC/dissolved. http://www.wdisk.org/resources/rever-sixtee-metal-bioavallability-assessment-tode in tool with pit. DOC and Ca to derive a ECOS referred to as the PNEC/dissolved. http://www.wdisk.org/resources/rever-sixtee-metal-bioavallability-assessment-to-of-m-bat. PLUS ABC (ambient background conventionation--Arbitecting to the properties of metal-properties of metal

Leachate Screening Round 1 - CS&G Mobuoy Road Waste Site Remediation

Sample Point /		TSV	BH610	BH635	BH635	BH635
Determinands						
HEAVY METALS Arsenic (diss filt)	5	μg/l D (AA) (1) 25 (AA (2)	2.00 4.5	2.00 3.1	4.00 2.1	5.00 5.1
Boron (diss.filt)	,	1000 (5)	210	180	67	31
Barium (diss.filt)		700 (8)	15	84	10	12
Beryllium (diss.filt)			< 1.0	< 1.0	< 1.0	< 1.0
Cadmium (diss.filt)	0.09 (AA) & 0.6 (MAC) (1)	CaCO ₃ 50 - <100 mg/l	< 0.11	-	_	-
	0.6 (AA) (2)	04003 50 - C100 mg/1	< 0.11			
C8 Cadmium (Dissolved)		FO (F)	-	< 0.08	< 0.08	< 0.08
Chromium (diss.filt) Copper (diss.filt)	1 (AA) biogu	50 (5) ailable (see roce 1) (1) (see roce 4) (2)	< 0.50	0.62	< 0.50	4.5
Iron (diss.)	I (AA) DIOUV	1000 (AA) (1&2)	2	15	13	490
Mercury (diss.filt)		0.07 MAC (1&2)	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (diss.filt)		123 (AA) (see note 1)	42	1100	18	22
Molybdenum (diss.filt) Nickel (diss.filt)	A(see nose 5) /AA)	70 (8) ? (1), 8.6 (AA) (2), 34 (MAC) (1&2)	14	4.1 110	26 6.0	7.2 4.0
Lead (diss.filt)	1.2(see nose s) (AA) (1), 1.3 (AA) (2), 14 (MAC) (1&2)	< 0.50	< 0.50	< 0.50	1.8
Antimony (diss.filt)		5 (5)	2.8	2.0	15	5.9
Selenium (diss.filt)		10(5)	< 0.50	< 0.50	< 0.50	0.68
Zinc (diss.filt)	10.9 (AA) (1) +ABC b	ioavailable 6.8 (AA) (2) +ABC (see Note 2)	3.7	6.9	5.7	10
Iron (Total) Manganese (Total)			13 42	15 1100	13 18	490 22
Chromium III (diss.filt)	4.7	(AA) (1) 95th%ile (32)	±20 ≤20	1100 ± 20	18 = 20	< 20
Chromium VI (diss.filt)		0.6 (AA) (2), 32 (95th%ile) (2)	< 0.10	0.14	< 0.10	< 0.10
Phenois		ug/l				
Phenois, Total	7.7 (1	&2) 46 (95th%ile) (1&2)	< 0.00003	< 0.00003	< 0.00003	<0.00003
Speciated TPH Aliphatics		ug//				
EC C5-C6		15000 (7)	< 0.10	< 0.10	< 0.10	< 0.10
EC>C6-C8		15000 (7)	< 0.10	< 0.10	< 0.10	< 0.10
EC>C8-C10		300 (7)	< 0.10	< 0.10	< 0.10	< 0.10
EC>C10-C12 FC>C12-C16		300 (7)	< 0.10	< 0.10	< 0.10	< 0.10
EC>C12-C16 EC>C16-C21		300 (7)	< 0.10	< 0.10	< 0.10	< 0.10
EC>C21-C35			< 0.10	1300	< 0.10	< 0.10
EC>C35-C44			< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatics >C5-C35			< 5.0	1300	< 5.0	< 5.0
Aromatics		40 (7)				
EC C5-C7 EC>C7-C8		10 (7) 700 (7)	< 0.10	< 0.10	< 0.10	< 0.10
EC>C8-C10		300 (7)	< 0.10	< 0.10	< 0.10	< 0.10
EC>C10-C12		90 (7)	< 0.10	< 0.10	< 0.10	< 0.10
EC>C12-C16		90 (7)	< 0.10	< 0.10	< 0.10	< 0.10
EC>C16-C21 EC>C21-C35		90 (7) 90 (7)	< 0.10	< 0.10	< 0.10	< 0.10
EC>C35-C44		90 (7)	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatics >EC5-EC35			< 5.0	< 5.0	< 5.0	< 5.0
tal Aliphatics & Aromatics >C5-			< 10	1300	< 10	< 10
BTEX/MTBE/GRO		µg/l				
MTBE Benzene	10 (AA) M	15 (5*) AC 50 (1), 8 (AA) MAC 50 (2)	< 1.0 < 1.0	< 1.0	< 1.0	< 1.0
Toluene	74 (AA) 95th%ile	(380) (1), 74 (AA) 95th%ile (370) (2)	< 1.0	< 1.0	< 1.0	€1.0
Ethylbenzene		300 (8)	< 1.0	< 1.0	< 1.0	< 1.0
p/m-Xylene			< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		ned	< 1.0	< 1.0	< 1.0	< 1.0
Polyaromatic Hydrocabons Naphthalene (aq)	2/88	μg/l i) (1 &2) 130 (MAC 1&2)	< 0.010	< 0.010	< 0.010	< 0.010
Acenaphthylene (aq)	2 (80-	-, (. ==, .== (mno ruz)	< 0.010	< 0.010	< 0.010	< 0.010
Acenaphthene (aq)		-	< 0.010	< 0.010	< 0.010	< 0.010
Fluorene (aq)		-	< 0.010	< 0.010	< 0.010	< 0.010
Phenanthrene (aq) Anthracene (aq)		I (AA & MAC) (1 & 2)	< 0.010	< 0.010	< 0.010	< 0.010
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)	< 0.010	< 0.010	< 0.010	< 0.010
Pyrene (aq)	,		< 0.010	< 0.010	< 0.010	< 0.010
Benzo(a)anthracene (aq)			< 0.010	< 0.010	< 0.010	< 0.010
Chrysene (aq)		0.047 (MAO) (400)	< 0.010	< 0.010	< 0.010	< 0.010
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)		0.017 (MAC) (1&2) 0.017 (MAC) (1&2)	< 0.010	< 0.010	< 0.010	< 0.010
Benzo(a)pyrene (aq)	0.00017 (AA)	(1 & 2) MAC (0.27 (1) 0.027 (2))	< 0.010	< 0.010	< 0.010	< 0.010
Indeno(1,2,3-cd)pyrene (aq)	(4		< 0.010	< 0.010	< 0.010	< 0.010
Dibenzo(a,h)anthracene (aq)		•	< 0.010	< 0.010	< 0.010	< 0.010
Benzo(g,h,i)perylene (aq)	0.0082 (N	AC)(1) & 0.00082 (MAC) (2)	< 0.010	< 0.010	< 0.010	< 0.010
PAH, Total Detected USEPA INORGANICS		mg/I	< 0.20	< 0.20	< 0.20	< 0.20
Dissolved Organic Carbon			11	54	14	25
Alkalinity (Total)			160	120	110	130
Chloride	0.0(4)	250 (5)	9.8	60	23	5.4
Ammonia (Free) Ammonium	0.3 (1)	Types 1,2,4 and 6 (see note 3)	1.9 27	0.11	0.48 6.8	0.11
Ammonium Nitrite	l		0.042	0.35	0.31	1.6
Nitrate		50 (5)	< 0.50	< 0.50	3.1	1.6
Sulphate		250 (5)	98	570	75	74
Cyanide (Total) Low-Level	0.001 (AA), 0.005 (95%ile) (1&2)	< 0.050	0.070	< 0.050	< 0.050
Potassium Magnesium			19	5.7	9.7	4.1 2.6
Sodium		200(5)	14	4.7	7.0	7.4

- The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EOS). Where the MAC-EOS are marked as 'not applicable'; the AA-EOS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basis of auctivation(b).

- Notes:
 Note: ECSbloavallable derived via the Metal Bioavallability Assessment Tool (M-BAT) developed by WFDTAG Look at receptor specific assessment using the M-BAT tool with pit. 200 and Call b derives a ECS reterred to as the PME Classovied. http://www.wfd.co.gressov.centreers-blane-metal-bioavallability-assessment both rebat and the M-BAT tool with pit. DOC and Ca to derive a ECS reterred to as the PME Classovied. http://www.wfd.co.gressov.centreers-blane-metal-bioavallability-assessment bodh rebat and the M-BAT tool with pit. DOC and Ca to derive a ECS reterred to as the PME Classovied. http://www.wfd.co.gressov.centrivers-blane-metal-bioavallability-assessment-bodh rebat. PLUS ABC (ambiest background concentrations a ratherined Background Concentrations in a strained to background weeks of zinc based on a low percentile of monitoringdata. A figure of 1 µg/That been estimated for the shwelters in Northern Ireland.
 Note 3. Transient of Scatial Copper 5.7 Ripsi (dissolved.wither DOC 5.1 mg) OR 3.76 + (2.677 × (IDOC/2) 0.5)) µg/I dissolved, where DOC > 1 mg/Note 5. These EOS refer to bioavailable concentrations of the substances.

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)	BH603	BH660	BH660A	BH660A	BH659	BH659	BH665	BH665	BH668	BH665	BH666	BH666	BH669	BH669	BH673	BH673	BH601R	BH601R	BH603R	BH603R	BH602R	BH668	BH668
Determinands		(ug/i)																							
HEAVY METALS	Depth (m)		2.0 28/03/2022	9.0 29/03/2022	9.0	10.0 30/03/2022	10.0	11.0 31/03/2022	9.0	12.0 05/04/2022	8.0 08/04/2022	4.0	11.0	13.0 06/04/2022	10.0 07/04/2022	13.5	4.0 20/04/2022	5.0 20/04/2022	1.0	4.0 22/04/2022	3.0 21/04/2022	6.0 21/04/2022	4.0 21/04/2022	12.0 11/04/2022	14.0 11/04/2022
Arsenic (diss.filt)	μg/l 50 (AA) (1) 25 (AA (2)		0.82	1.6	12	4.7	7.40	3.5	5.8	2.2	2.2	6.3	4.4	5.1	6.1	3.30	5.50	1.50	2.70	1.10	2.4	3.2	8.8	1.2	1.9
Boron (diss.filt)	1000 (5) 700 (8)		14	59	100	270	280	35	260	23	220	260	60	230	180	31.00	150.00	32.00	510	110	76	230	450	95	< 10
Barium (diss.filt) Beryllium (diss.filt)			9.1 < 1.0	20 < 1.0	18 < 1.0	63 < 1.0	12 < 1.0	< 5.0 < 1.0	26 < 1.0	< 1.0	56 < 1.0	12 < 1.0	< 1.0	20 < 1.0	20 < 1.0	12.00	25.00 < 1.0	29.00 < 1.0	15 < 1.0	< 5.0 < 1.0	12 < 1.0	6.5 < 1.0	72 < 1.0	64 < 1.0	21 < 1.0
Cadmium (diss.filt)	0.09 (AA) & 0.6 (MAC) (1) CaCO ₃ 50 - <100 mg/l		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	0.09	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
Chromium (diss.filt) Copper (diss.filt)	50 (5) 1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94	< 0.50	< 0.50	5.0	3.30 5.2	1.5	2.9	4.1 2.9	< 0.50	5.60 5.70	5.5 8.1	4.40 3.20	< 0.50	5.00	12.00 29.00	0.72 2.00	< 0.50	2.1	1.00	< 0.50	1.80	2.8 7.80	< 0.50	< 0.50
Iron (diss.)		54.54	28	< 5.0	73	46	500	300	39.0	< 5.0	51.0	97.0	100.0	33.0	80	160.00	65.00	19.00	570	85.00	34.00	94.00	57.00	32.00	120
Mercury (diss.filt) Manganese (diss.filt)	0.07 MAC (1&2) 123 (AA) (*** *** **** **** **** **** ****	276.92	< 0.05	< 0.05 110	< 0.05	< 0.05	< 0.05 22	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 92.00	< 0.05	< 0.05	< 0.05	< 0.05 250	< 0.05 4.5	< 0.05 140	< 0.05 130	< 0.05
Manganese (diss.filt) Molybdenum (diss.filt)	70 (8)	270.92	3.8	6.4	48	32	81.0	4.3	78.0	2.8	32.00	37.0	8	41	37.0	15.00	16.00	1.90	30	5.7	9.9	2.2	11	21	8.5
Nickel (diss.filt)	4 (see note 5) (AA) (1), 8.6 (AA) (2), 34 (MAC) (1&2)	14.98 9.64	1.4	2.3	9.5	9.9	13.0 5.5	2.6	16	1.2	10.00	19 2.2	5.2	7	11.0	7.60 1.00	21.00	2.80 < 0.50	1.2	8.7	6.5 < 0.50	14	160 < 0.50	4.3	2.4
Lead (diss.filt) Antimony (diss.filt)	1.2 ^(see note 5) (AA) (1), 1.3 (AA) (2), 14 (MAC) (1&2) 5 (5)	9.04	< 0.50	< 0.50 7.4	21	1.3	15.0	0.84	< 0.50	< 0.50	3.50	9.0	23	0.9 75	21.0	4.30	1.70 6.50	< 0.50	7.3	< 0.50	24	< 0.50	< 0.50 3	< 0.50	< 0.50
Selenium (diss.filt)	10(5)		< 0.50	< 0.50	1.5	0.88	0.58	0.91	5.3	< 0.50	< 0.50	1.9	< 0.50	5	1.20	1.30	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.2	< 0.50	< 0.50
Zinc (diss.filt) Chromium III (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (see Note 2) 4.7 (AA) (1) 95th% ile (32)	37.15	6.7	5.1 × 20	120 < 20	16 × 20	8.3 r 20	4.7 < 20	30.0 = 20	4.9 < 20	8.00	20 r 20	6.2 < 20	13 - 20	± 20	6.60	64.00 × 20	5.60 < 20	22 r 20	11 = 20	7.6 ± 20	5.1 < 20	31 = 20	4.4 < 20	5.2 < 20
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.22	0.26	1.1	< 0.10	0.33	11	< 0.10	< 0.10	0.17	0.11	< 0.10	< 0.10	< 0.10	6.00	< 0.10	< 0.10	< 0.10	< 0.10	0.18	< 0.10	< 0.10	< 0.10	< 0.10
Phenois Phenois Total	ug/l 7.7 (1&2) 46 (95th%ile) (1&2)		< 0.030	× 0.030	0.68	3.4	0.13	< 0.030	5.8	< 0.030	e 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	4	< 0.030	< 0.030	£ 0.030	< 0.030	£ 0.030	0.96	£ 0.030	× 0.030
Speciated TPH	ug/l		* 0.000	*. U.U3U	0.00	3.4	0.13	₹ 0.030	0.0	< 0.030	₹ 0.030	₹ 0.030	< 0.030	₹ 0.030	< 0.030	< 0.030	,	× 0.030	< 0.030	< 0.030	< 0.030	*. U.U3U	0.50	* 0.000	< 0.030
Aliphatics	15000 (7)		0.40	0.40	500	700	540	070	0000	0.40	040	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
EC C5-C6 EC>C6-C8	15000 (7) 15000 (7)	1	< 0.10	< 0.10	590 220	780 340	510 270	670 200	2200 1100	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C8-C10	300 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	230	15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	300	31	< 0.10	41	38	< 0.10	< 0.10	< 0.10	< 0.10
EC>C10-C12 EC>C12-C16	300 (7) 300 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	480 < 0.10	< 0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10	36 < 0.10	46 < 0.10	320 220	56 93	< 0.10	55 96	53 110	< 0.10	< 0.10 < 0.10	< 0.10	< 0.10
EC>C16-C21			< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C21-C35 EC>C35-C44			< 0.10 < 0.10	350 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	150 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	450 < 0.10	260 < 0.10	240 < 0.10	< 0.10	< 0.10	720 < 0.10	350 < 0.10	< 0.10	< 0.10	1200 < 0.10	740 < 0.10
Total Aliphatics >C5-C35			< 5.0	350	810	1100	780	870	3900	170	< 5.0	< 5.0	< 5.0	< 5.0	480	310	1100	180	< 5.0	910	550	< 5.0	< 5.0	1200	830
Aromatics	10 (7)				590	2200	160	310						< 0.10	< 0.10	× 0.10			< 0.10	< 0.10			e 0.10		740
EC:C5-C7 EC:C7-C8	700 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	3100 290	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	14000
EC>C8-C10	300 (7)		< 0.10	< 0.10	820	5000	330	< 0.10	23000	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	18000	990	< 0.10	< 0.10	860	< 0.10	< 0.10	< 0.10	8900
EC>C10-C12 EC>C12-C16	90 (7) 90 (7)		< 0.10	< 0.10	8900 3700	23000	10000	2100 1800	24000 17000	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	59 160	42000 19000	5800 4300	< 0.10	380 72	6200 6300	< 0.10	< 0.10	< 0.10	860 120
EC>C16-C21	90 (7)		24	< 0.10	< 0.10	< 0.10	260	< 0.10	720	180	< 0.10	< 0.10	< 0.10	< 0.10	48	< 0.10	1500	200	< 0.10	< 0.10	430	< 0.10	< 0.10	< 0.10	< 0.10
EC>C21-C35 EC>C35-C44	90 (7)		< 0.10 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	75 < 0.10	74 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	62 < 0.10	58 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10	< 0.10	< 0.10 < 0.10	< 0.10	< 0.10
Total Aromatics >EC5-EC35			24	< 5.0	14000	44000	16000	4100	69000	1900	< 5.0	< 5.0	< 5.0	< 5.0	210	280	81000	11000	< 5.0	450	14000	< 5.0	< 5.0	110	24000
otal Aliphatics & Aromatics >C5- BTEX/MTBE/GRO			24	350	15000	46000	17000	5000	72000	2000	< 10	< 10	< 10	< 10	690	590	82000	11000	< 10	1400	14000	< 10	< 10	1400	25000
MTBE	15 (5*)		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)		< 1.0	< 1.0	7200	22000	13	8	6200	2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	280	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	58
Toluene Ethylbenzene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2) 300 (8)		< 1.0 < 1.0	< 1.0 < 1.0	1200 45	2400 61	22 7.6	6.7	3700 3100	1.3 < 1.0	< 1.0 < 1.0	< 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0	< 1.0 < 1.0	29 8.2	67 79	< 1.0 < 1.0	< 1.0 < 1.0	17 24	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0	22 72
p/m-Xylene			< 1.0	< 1.0	63	84	10	2.3	64	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	53	15	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	13
o-Xylene Polyaromatic Hydrocabons	ug/I		< 1.0	< 1.0	48	61	7.9	2.1	540	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	52	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	12
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)		< 0.010	< 0.010	2700	7700	3800	2000	8800	4.7	0.8	0.98	38	38	2.1	89	22000	4000	2	0.88	4300	24	37	2.4	8500
Acenaphthylene (aq) Acenaphthene (aq)	•		< 0.010	< 0.010	560	1300 150	290	200	1500	820 140	0.77 2.5	25 4 F	31	32 5.9	20	97	3400	1500	< 0.010	< 0.010	2500	230	39	< 0.010	3000 520
Fluorene (aq)		1	< 0.010	< 0.010	74	95	170	74	300	100	2.2	2.5	5	4.9	4.2	26	290	100	< 0.010	< 0.010	190	32	4.5	< 0.010	260
Phenanthrene (aq)	0.1 (AA & MAC) (1 & 2)		< 0.010	< 0.010	41	74	170	44	200	81	1	2.3	5.7	4.5	4.8	23	270	61	< 0.010	< 0.010	120	23	< 0.010	< 0.010	170
Anthracene (aq) Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)		< 0.010	< 0.010	4.5 2.9	6.6	31 42	4.1 6.5	21 26	7.1	0.33 0.7	< 0.010	1.6 0.85	< 0.010	1.1 3.5	3.4	77	8.8 4.5	< 0.010	< 0.010	18 10	2.4	< 0.010	< 0.010	17
Pyrene (aq)	-		< 0.010	< 0.010	2.8	9.1	51 < 0.010	7.8	34	14	0.95	< 0.010	2	< 0.010	5.3	4	100	7	< 0.010	< 0.010	11	2.1	< 0.010	< 0.010	19
Benzo(a)anthracene (aq) Chrysene (aq)		1	< 0.010	< 0.010 < 0.010	< 0.010	< 0.010 < 0.010	< 0.010	< 0.010	2.1	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	6.8	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	2.8	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo(k)fluoranthene (aq) Benzo(a)pyrene (aq)	0.017 (MAC) (1&2) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	1	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.81	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010
Indeno(1,2,3-cd)pyrene (aq)			< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	1.6	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Dibenzo(a,h)anthracene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	1.1 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo(g,h,i)perylene (aq) PAH, Total Detected USEPA 16	0.0002 (MAC)(1) & 0.0002 (MAC)(2)	1	< 0.010	< 0.20	3500	9400	5300	2700	11000	1200	9.3	35	95	85	47	330	26000	5800	2	0.88	7300	360	< 0.010 84	2.4	13000
INORGANICS	mg/l		-		07		70	40.0		40		40	70	51	00	45	440	24	00	05	00				24
Dissolved Organic Carbon Alkalinity (Total)			7 67	130	87 52	310.0 390	72 150	43.0	210 360.00	10 63.00	39 100	43 170	72 60	51 160	39 140	15 340	110 220	140	68 400	85 76	20 190	54 210	310 810	11 77	21 82
Chloride	250 (5)		2.3	3	68	32	17.0	3.3	67.00	2.40	51	59	29.00	65.00	35	20	35	14	150	28	11	66	220	22	13
Ammonia (Free) Ammonium	0.3 (1) Types 1,2,4 and 6 (see note 3)	1	0.1 0.87	0.81	13	1.4 29	0.42 8.1	0.18	1.60 24	0.20	2.0 45	16	1.4 5.4	18.0	20.0	0.15	0.48 42	< 0.050 0.28	7.7 110	1.5	0.64	3.6 41	11 150	1.3 7.7	0.56
Nitrite			0.046	0.044	1.6	0.083	0.054	< 0.020	0.11	0.03	0.02	0	< 0.020	0.15	< 0.020	0.067	0.028	0.026	< 0.020	0.035	< 0.020	0.12	0.031	0.29	0.066
Nitrate	50 (5) 250 (5)	1	8 33	< 0.50 110	160	< 0.50	< 0.50 27	< 0.50	< 0.50	< 0.50	2.4 420.0	< 0.50	6.4	0.5	< 0.50	< 0.50	< 0.50 55	1.2	< 0.50	< 0.50 85	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphate Cyanide (Total) Low-Level	250 (5) 0.001 (AA), 0.005 (95%ile) (1&2)	1	< 0.050	110 < 0.050	90 < 0.050	110.0 < 0.050	27 < 0.050	< 0.050	140.00 < 0.050	4.10 < 0.050	420.0 < 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	85 < 0.050	< 0.050	< 0.050	90 < 0.050	220 < 0.050	40 < 0.050
Potassium			1.6	6	7	24	13.0	2.0	37.00	4.60	28	21	3.6	10.0	16.0	5.7	31	6.2	53	12	9.3	21	84	14	8.8
Magnesium	200 (5)	1	1.8	5.0	2	11.0	2.6	0.8	15.00	1.60	13.0	2.6	19.0	2.7	4.7 27.0	< 0.20	3.3	2.9	19	3 24	5.5	2.8	18	7.7	3.1
Soulum	200 (0)		4.0		. 10																				

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The Water Framework Directive (Priority Substances and Classification) Regulations (Northern heland) 2015 Freshwater.

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern heland) 2015 fransitional water.

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Water Control of the Priority Water Protected Areas - The Rever Basin Clasticist Typology, Standards and Groundeater International values (Water Framework Directive) (England and Water) Directions 2010

4. Freshwater COS (AA)

5. Into Directive Water Standard

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6. Into Directive Water Standard

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Freshwater COS (AA)

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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS) Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basis of acuteboicity.

Notes: Consolidated desired via the Meal Econolisatile Assessment Tool (M.B.F.) (evenously WFD AG, Look at RNOs 1 - Econolidate Meal and the Meal Econolisatile Meal Consolidated Meal Consolidated Meal Consolidated Meal Consolidated Meal Consolidated Meal Consolidated Meal Consolidated Meal Consolidated Meal Consolidated Meal Consolidated Meal Consolidated Meal Consolidated Meal Econolisatile Meal Econolisatile Meal Consolidated Meal Consolidated Meal Consolidated Meal Consolidated Meal Consolidated Meal Econolisatile Meal Consolidated Meal Consol

Sample Point / Determinands	TSV	MBAT PNEC												
		(ug/l)	BH667	BH667	BH676	BH676	BH678	BH678	BH677	BH677	BH675	BH675	BH660A	BH679
	Depth (m)		11.0	13.0	6.0	8.0	7.0	12.0	6.0	9.0	4.0	9.0	12.0	8.0
HEAVY METALS Arsenic (diss.filt)	μg/l 50 (AA) (1) 25 (AA (2)		15/04/2022	15/04/2022	09/05/2022	09/05/2022	10/05/2022	10/05/2022	11/05/2022	11/05/2022	12/05/2022	12/05/2022	13/05/2022	13/05/2022
Boron (diss.filt)	1000 (5)		30	100	180	110	110	16	120	71	270	110	27	100
Barium (diss.filt)	700 (8)	İ	20	67	37	36	82	8.5	71	26	51	34	16	28
Beryllium (diss.filt)			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	0.09 (AA) & 0.6 (MAC) (1) CaCO ₃ 50 - <100 mg/l		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08			< 0.08	< 0.08		
Chromium (diss.filt)	50 (5) 1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)		11	< 0.50	< 0.50	< 0.50	11	7.4	< 0.50	< 0.50	< 0.50	1.6	< 0.50	< 0.50
Copper (diss.filt) Iron (diss.)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (1&2)	34.94	66 200	4.1 22	12 16	< 0.50	1.3 < 5.0	1.5 16	< 0.50	< 0.50	1.6 73	< 0.50	1.4	1.6
Mercury (diss.filt)	0.07 MAC (1&2)		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (diss.filt)	123 (AA) (**** note 1)	276.92	0.66	380	31	30	330	3.8	530	20	860	240	31	96
Molybdenum (diss.filt)	70 (8)		38	16	62	8.3	27	17	5.5	28	18	4.6	2.6	14
Nickel (diss.filt)	4 ^(see note 5) (AA) (1), 8.6 (AA) (2), 34 (MAC) (1&2)	14.98	51	7.3	4.8	5.8	12	2.1	13	3.4	62	6.5	1.7	3.8
Lead (diss.filt)	1.2 (MAC) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64	0.58	< 0.50	< 0.50	< 0.50	0.91	< 0.50	0.92	< 0.50	0.69	< 0.50	< 0.50	< 0.50
Antimony (diss.filt) Selenium (diss.filt)	5 (5) 10(5)		17 1.8	2.5 < 0.50	4.2 < 0.50	3.1 < 0.50	7.8 0.71	3.5 < 0.50	3.2 < 0.50	< 0.50	15 0.62	1.2 < 0.50	1.8 < 0.50	3.4
Zinc (diss.filt)	10(5) 10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (see Note 2)	37.15	1.8 < 2.5	< 0.50 7.6	< 0.50	< 0.50	9.71	< 0.50	< 0.50	< 0.50 × 2.5	12	< 0.50	< 0.50	0.6 £2.5
Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)	37.10	< 20	< 20	< 20	< 2.5	< 20	< 20	< 20	< 2.0	< 20	< 20	< 20	< 20
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)	i e	4.2	< 0.10	0.6	0.25	2.7	0.17	< 0.10	0.23	3.7	1.4	0.12	< 0.10
Phenols	ug/l													
Phenois, Total	7.7 (1&2) 46 (95th%ile) (1&2)		< 0.030	< 0.030	0.066	0.058	< 0.030	< 0.030	< 0.030	< 0.030	1	< 0.030	< 0.030	< 0.030
Speciated TPH Aliphatics	ugil													
Aliphatics EC C5-C6	15000 (7)	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C6-C6 EC>C6-C8	15000 (7)	 	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C8-C10	300 (7)	i e	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	190	< 0.10	27	< 0.10
EC>C10-C12	300 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	110	< 0.10	32	< 0.10
EC>C12-C16	300 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C16-C21			< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C21-C35			< 0.10	< 0.10	650	750	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C35-C44 Total Aliphatics >C5-C35			< 0.10	< 0.10	< 0.10 650	< 0.10 750	< 0.10	< 0.10 < 5.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10 59	< 0.10
Aromatics Aromatics			< 5.0	< 5.0	650	750	< 5.0	< 5.0	< 5.0	< 5.0	300	< 5.0	28	< 5.0
EC C5-C7	10 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C7-C8	700 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	93	< 0.10
EC>C8-C10	300 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	2100	< 0.10	77	< 0.10
EC>C10-C12	90 (7)		< 0.10	< 0.10	270 4500	76	< 0.10	< 0.10	41	< 0.10	490 160	< 0.10	290 3000	< 0.10
EC>C12-C16	90 (7) 90 (7)		< 0.10	< 0.10		4800	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10		< 0.10
EC>C16-C21 EC>C21-C35	90 (7)		< 0.10	< 0.10	430 < 0.10	500 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	190 < 0.10	< 0.10
ECSC21-C35 FC>C35-C44	50 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatics >EC5-EC35			< 5.0	< 5.0	5200	5400	< 5.0	< 5.0	41	< 5.0	2700	< 5.0	3600	< 5.0
otal Aliphatics & Aromatics >C5-3			< 10	< 10	5900	6200	< 10	< 10	41	< 10	3000	< 10	3700	< 10
BTEX/MTBE/GRO	µg/l													
MTBE	15 (5*)		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	17	< 1.0
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	18 31	< 1.0
Ethylbenzene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 < 1.0	< 1.0	31	< 1.0 < 1.0
p/m-Xvlene	300 (8)		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xvlene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Polyaromatic Hydrocabons	µg/1													
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)		2.2	< 0.010	1.4	11	< 0.010	< 0.010	0.14	0.69	1.3	< 0.010	19	< 0.010
Acenaphthylene (aq)	•		< 0.010	< 0.010	84	150	< 0.010	< 0.010	0.27	8.8	< 0.010	< 0.010	1000	< 0.010
Acenaphthene (aq) Fluorene (aq)	•	-	< 0.010	< 0.010	470 23	380 91	< 0.010	< 0.010	0.35	4.6 3.1	< 0.010	< 0.010	130	< 0.010
Phenanthrene (aq)		l	< 0.010	< 0.010	0.69	44	0.87	< 0.010	0.22	2.5	< 0.010	< 0.010	53	< 0.010
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)	1	< 0.010	< 0.010	1.6	5.8	0.5	< 0.010	0.07	0.52	< 0.010	< 0.010	7.9	< 0.010
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)		< 0.010	< 0.010	4.2	9.6	0.9	< 0.010	0.12	0.95	< 0.010	< 0.010	12	< 0.010
Pyrene (aq)	·		< 0.010	< 0.010	5.3	11	1.3	< 0.010	0.2	1	< 0.010	< 0.010	15	< 0.010
Benzo(a)anthracene (aq)	•		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Chrysene (aq) Renzo(h)fluoranthene (aq)	0.017 (MAC) (1&2)	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2)	1	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo(a)pyrene (aq)	0.007 (MAC) (182) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	 	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Indeno(1,2,3-od)pyrene (aq)		i e	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Dibenzo(a,h)anthracene (aq)			< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo(g,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PAH, Total Detected USEPA 16 INORGANICS			2.2	< 0.20	590	700	3.6	< 0.20	1.5	22	1.3	< 0.20	1400	< 0.20
	mg/l		04	45	16	15	15	0.0	00	40	040		0.0	45
Dissolved Organic Carbon Alkalinity (Total)		1	31 140	45 110	16 84	15 86	15 78	3.2 57	20 120	12 76	340 510	11 99	8.3 79	15 110
Chloride	250 (5)	 	95	48	30	5.1	8.6	7.8	6.5	3.8	66	9.4	2.7	2.3
Ammonia (Free)	0.3 (1) Types 1,2,4 and 6 (see rote 3)	1	5.8	< 0.050	1.8	0.74	0.86	0.17	0.27	0.07	< 0.050	4.9	< 0.050	0.44
Ammonium			0.43	15	4	5.5	5.4	1.8	8.3	4.4	< 0.050	< 0.050	0.2	7
Nitrite	<u> </u>		< 0.020	0.04	0.15	0.046	0.053	< 0.020	< 0.020	0.048	< 0.020	0.038	< 0.020	0.048
Nitrate	50 (5)		< 0.50	< 0.50	< 0.50	< 0.50	0.73	0.61	< 0.50	< 0.50	< 0.50	0.79	< 0.50	< 0.50
	250 (5)	1	130	380	220	73	1500	8.3	420	60	72 < 0.050	250 < 0.050	8.1 < 0.050	130
Sulphate	0.004 (4.4.) 0.005 (050) (1) (4.6.0)													< 0.050
Cyanide (Total) Low-Level	0.001 (AA), 0.005 (95%ile) (1&2)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050				
	0.001 (AA), 0.005 (95%ile) (1&2)		< 0.050 9.7 0.42	< 0.050 16 9.5	< 0.050 15 6.7	15 4.8	19 12	5.8 1.1	10	7 1.9	18 18	6.8 6.4	5.5	6.4

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015
Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 transitional

2. The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Networt) 2015 transitions water.

Association (Substance) (Area - The River Basin Direction Typicing), Standards and Groundwater threshold values (Water Framework Directive) (England and Wales) Directions 2010

5. UK Orinsing Water Standard * (odour threshold MTBE)

7. WHICD World Basin Originated (Inc.) - Petroleum Products in Dirinking Water, Background document for development of WHICD caudedines for Dirinking Water Classifies.

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable"; the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basis of acuteoxicity.

APPENDIX 9 – GROUNDWATER & SURFACE WATERS SUMMARY – ROUND

Sample Point / Determinands		MBAT PNEC BHG	4 BHCS	81106	8807	BH101 E	9H102 BH103	BH104	BH105	BH106	BH107	BH105	8H111	BH112	BH118	8H119	BH201	BH202	3H203 BI	204	BH205 BH20	5 BH205	BH207	BH212	BH216	BH217	BH218	BH219	BH220 BH221
HEAVY METALS Agencic (dass fit) Boron (dass fit)	50 (AA) (1) 25 (AA (2)	5.5	31	3.2	42 810	< 0.20	0.20 1	< 0.20	0.21	0.56	5.2	1.2	0.57	0.27	0.44	1.4	28	1.5	4.5 0	47	89 25	13	4.	1,3	0.86	13	7.3	2.3	3.4 1.4
Barium (diss.fit) Bervillum (diss.fit) Cadmium (diss.fit)	1000 (5) 700 (8)	450	110 0 <1.0	36 160 < 1.0	160	250 130 < 1.0	37 :	36 53 <1.0	140	29	420 < 1.0	23	16 < 1.0	22 <1.0	- 1	120	270	110	110	1.0	92 96 <1.0 <1/	140	160	42 110 <1.0	30 <1.0	67 < 1.0	250 < 1.0	120	81 41 <1.0 <1.0
	0.59 (AA) 5.0.5 (MAC) (1) 0.5 CaCO ₃ 50 - <100 mg/l 50 (5)	2.5 2.5	11 < 0.11 < 0.50	< 1.0 < 0.11 < 0.50	2.9	< 1.0 0.13 < 0.50 0.86	0.25 < 0.11 7.3 < 0.50	< 0.11 2.1	2.7	< 0.11	< 0.11 4.3	< 0.11	< 0.11 5.3 6.5	6.3	< 0.11 4.2	0.93 < 0.50	< 0.11 1.6	0.21 < 0.50	3.9 <	1.11	0.15 < 0.1 2 < 0.5 7.4 0.61	< 0.11 1.4 < 0.50	< 0.11 4.5	< 1.0 < 0.11 < 0.50 0.58	< 0.11	< 0.11 2.9	< 0.11 12	< 0.10 < 0.11 < 0.50	<0.11 < 0.11 0.88 < 0.50
Copper (diss.fit)	20 (5) 1 (AA) bioavallable (resident) (3) (resident) (2) 1000 (AA) (15.2) 0.07 MAC (15.2)	1100	< 0.50 30 14000 30 0.05	25000 < 0.05 53000			3.1 < 0.50 8.6 -	2.1 26 < 0.05	9.4 18000	37000	120000	< 0.50 14 < 0.05	65 76 - 005	1.4 <5.0	4.1	9.6 190 < 0.05	2.7 12000 - 0.05	4100 < 0.05	53 63000 :	4	7.4 0.61 19000 570 0.05 < 0.0		57000 - 0.05	0.58 49 40.05	350 2005	4.5 7700 c 0.05	22000 2000	14000 1005	<0.50 < 0.50 18000 1800 < 0.05 < 0.05
Mercury (diss.fit) Manganese (diss.fit) Mohbdenum (diss.fit) Nickel (diss.fit)	123 (AA) (*********************************	276.92 1400 0.6 14.98 55	0 3000 1 0.86 2.9	63000 < 0.20 28	2200 0.58	<0.05 ·	4300 - 0.20 - 5.8 2.1	970 0.65 5.5	2500 0.77	13000	15000	0.44 2.2	7.6 0.27 0.88	30 <0.20 2.4		4200 < 0.20 5.5	2.6	1600 < 0.20 3.4	2600 0.41 c 9.4	10	2000 310 0.81 < 0.2 17 5.2	4700 9,35	2400 0.34	49 < 0.05 1000 < 0.20 0.55	3500 0.27	< 0.05 5400 0.2 4.7	920 0.61	5100 < 0.20	3000 2000 < 0.20 0.39 4.1 2
Lead (das.fit)	4 (MAC) (1), 8,5 (AA) (2), 24 (MAC) (182) 1,2 (MAC) (1), 1,2 (AA) (2), 14 (MAC) (182)	14.98 55 9.64 < 0.1	2.9 50 < 0.50 50 < 0.50	< 0.50 < 0.50			5.8 2.1 : 0.50 < 0.50 : 0.50 -	< 0.50 < 0.50	0.82 0.82	< 0.50 < 0.50	0.92	< 0.50	0.88 < 0.50 < 0.50	2.4 < 0.50	< 0.50	5.5 < 0.50 < 0.50	1.5	2.4	2.9 <	.4 0.50	2.7 < 0.5 0.54 < 0.5	< 0.50	9.6 0.57	0.55 < 0.50 < 0.50	7.4 < 0.50	4.7 < 0.50 < 0.50	1.7	1.7 < 0.50 < 0.50	4.1 2 <0.50 <0.50 <0.50 <0.50
Seleptum (das fift) Zinc (das fift) fron (Total)	10 (10) 10.9 (AA) (1) +ABC blosvallable 6.8 (AA) (2) +ABC (see Note 2)	37.15 < 0.1	0 < 0.50 < 2.5	< 0.50	13	< 0.50	75 < 0.50	< 0.50 7.1	< 0.50 110	< 0.50 17 37000			0.5 5.3	< 0.50 16	< 0.50 7.7	< 0.50	< 0.50	1.3	0.50 c	3	1.7 0.50 84 12	0.87 7.1	0.97 12	< 0.50 2.6	< 0.50 11	1.6 36	1.1	< 0.50 6.1	< 0.50 < 0.50
Iron (Total) Manganese (Total) Manganese (II)		1100 1400 200	00 14000 00 3000 0 790	63000 4500	2200	2500	8.5 - 4300 - 570			37000 13000 300	16000		78 7.8 < 1.0		- :	4200	12000 3000 490					14000 4700 2800							- 1800 - 2600 - 260
Margarese (N) fron (II) kon (III) Ohromium III (dias.fit)		1200 170	00 2500		1700 120	1900 < 20	3700 - < 20 -	-	-	13000 19000	15000 460	-	3600 < 20	-	- :	3500 30	2800		-			1900 < 20		-	-	-	-		2300
Chromium III (diss.fit) Chromium III (diss.fit)	4.7 (AA) (1) 90th%ile (32) 3.4 (AA) (1), 0.5 (AA) (2), 32 (90th%ile) (2)	1100	0 14000	20000 < 20 < 0.10	57000 < 20	<20 <20	<20 <20	< 20	< 20	18000 < 20 < 0.10	120000 < 20 < 0.10	< 20	78 < 20	< 20		160 < 20	12000 < 20	< 20	<20 <	20	<20 <2	14000 < 20 < 0.10	< 20	< 20	< 20	< 20	< 20	< 20	- 1800 <20 <20
Phenola Total TPH	7.7 (182) 46 (95th%lin) (182)	<0.0	30 < 0.030			< 0.000	0.030 < 0.030	< 0.030	< 0.000				< 0.030	< 0.000	< 0.030	< 0.030	< 0.030	< 0.030	0.000 <1	000	. <0.0			< 0.000	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030 < 0.030
TPH >C6-C8	egi		-				- < 0.10			ř		-			< 0.10		í										-		
TPH > CB - C10 TPH > C10 C12 TPH > C12 C16 TPH > C16 C21	+						- < 0.10 - < 0.10								< 0.10 < 0.10 < 0.10				-									=	
TPH >C16-C21 TPH >C21-C25			- :	- :	- :	-:	- <0.10 - <0.10 - <0.10		- :	- :		- :		- :		- :	- :	-:-	:		: :	- :	- :	- :	- :	:	- :	=	====
TPH >C21-C25 TPH >C25-C35 TPH >C35-C40 Total TPH >C5-C40			-				- < 0.10 - < 0.10	+ :	-						< 0.10 < 0.10 < 0.10 < 10								+ :	-				=	
	ug i																												
Allphatics EC C5-O6 EC-C2-C6 EC-C8-C10 EC-C10-C12 EC-C10-C12	15000 (7) 15000 (7) 300 (7)	< 0.1 < 0.1 < 0.2	10 < 0.10 10 < 0.10 10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 - < 0.10 - < 0.10 -	0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10		< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10 < 0.10 <	110	< 0.10 < 0.1 < 0.10 < 0.1 < 0.10 < 0.1	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10
EC>C10-C12 EC>C12-C16	300 (7) 300 (7) 300 (7)	< 0.1	10 < 0.10 10 < 0.10	< 0.10			0.10 -	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	- 1	< 0.10	< 0.10	< 0.10	c 0.10 c	1.10	< 0.10 < 0.1	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10 < 0.10 < 0.10
EC>C16-C21 EC>C21-C35 EC>C36-C44		< 0.1	10 < 0.10 10 < 0.10	< 0.10	< 0.10	<0.10 · · · · · · · · · · · · · · · · · · ·	c 0.10 - c 0.10 -	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10	- :	< 0.10 < 0.10	< 0.10	< 0.10 < 0.10 < 0.10	c 0.10 c	110	< 0.10 < 0.1 < 0.10 < 0.1		< 0.10	< 0.10 < 0.10 < 0.10 < 0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10 < 0.10 < 0.10
Total Alphatics > C5-C35 Aromatics				< 0.10 < 5.0			< 5.0	< 0.10 < 5.0		< 0.10 < 5.0	< 5.0	<5.0	<5.0	< 0.10 < 5.0			< 0.10 < 5.0		<50 <	5.0	<0.10 < 0.1 <5.0 < 5.0	<5.0	<50	<50	<5.0	< 0.10 < 5.0	< 5.0	<50	<0.10 < 0.10 <5.0 < 5.0
EC-C7-C8	10 (7) 700 (7) 300 (7) 90 (7)	< 0.1	10 < 0.10 10 < 0.10	< 0.10	< 0.10	< 0.10	0.10 -	< 0.10 < 0.10	< 0.10	< 0.10 < 0.10	< 0.10	< 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	- :	< 0.10 < 0.10	< 0.10	< 0.10 < 0.10 < 0.10	c 0.10 c	0.10	<0.10 < 0.1 < 0.10 < 0.1 < 0.10 < 0.1		< 0.10	< 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10	< 0.10 < 0.10 < 0.10 < 0.10
EC>C8-C10 EC>C10-C12 EC>C12-C16	90 (7)	< 0.1	10 < 0.10 10 < 0.10 10 < 0.10	< 0.10	41	< 0.10	0.10 - 0.10 - 0.10 -	< 0.10 < 0.10 < 0.10	< 0.10	< 0.10 < 0.10 < 0.10	< 0.10	< 0.10 < 0.10 < 0.10	< 0.10	< 0.10		< 0.10 < 0.10 < 0.10	45	< 0.10	< 0.10 <	1.10 1.10 1.10	< 0.10 < 0.1	0.10	< 0.10	< 0.10 < 0.10 < 0.10	< 0.10	< 0.10 < 0.10 < 0.10	220 110	< 0.10 < 0.10 < 0.10	<0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10
EC>C16-C21 EC>C21-C35	90 (7) 90 (7)	< 0.	10 < 0.10 10 < 0.10	< 0.10 < 0.10	< 0.10	< 0.10	0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10		< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10 <	110	< 0.10 < 0.1 < 0.10 < 0.1	< 0.10		< 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	
Total Atomatics >ECS-EC35 Total Atomatics > ECS-EC35		<5.	0 <5.0	< 5.0 < 5.0	78 78	<5.0	< 5.0	< 5.0	< 5.0 < 10	< 5.0 < 10	73 73	< 5.0 < 5.0	< 5.0	< 5.0 < 5.0		< 5.0 < 5.0	80 80	<5.0	<5.0 <	5.0	<5.0 < 5.0 < 10 < 5.0	140	< 5.0	< 5.0 < 10	< 5.0 < 5.0	< 5.0	330	< 5.0	<0.10 < 0.10 < 0.10 < 0.10 < 5.0 < 5.0
BTEX:MTBE:GRO MTBE	15 (5") 15 (5") 10 (AA) MAC 50 (1) 8 (AA) MAC 50 (2)	<1.	0 < 1.0	< 1.0	< 1.0	< 1.0 < 1.0	< 1.0 ·	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0 <	1.0	<1.0 <1.0 <1.0 <1.0	< 1.0	< 1.0	< 1.0	<1.0 <1.0	< 1.0	< 1.0	< 1.0	<1.0 <1.0
Berusne Yoksee Ethylberusne	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) \$5055,06 (380) (1), 74 (AA) \$5055,06 (370) (2) 300 (3)	\$1 \$1	0 <10 0 <10 0 <10		< 1.0 < 1.0		c 1.0 c 1.0 c 1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0 <1.0	< 1.0 < 1.0 < 1.0	<1.0 <1.0	<10 <10	<1.0 <1.0		<1.0 <1.0 <1.0	<1.0 <1.0	<1.0 <1.0 <1.0		1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.9 15	<10 <10	<1.0 <1.0	<1.0 <1.0	< 1.0 < 1.0	<1.0 <1.0	<1.0 <1.0 <1.0	c10 c10 c10 c10
p/m-Xylene o-Xylene PCBs	33.07	e1.	0 <1.0 0 <1.0	<1.0 <1.0	< 1.0 < 1.0	<1.0	<1.0 ·	< 1.0 < 1.0	<1.0 <1.0	< 1.0 < 1.0	< 1.0 < 1.0	<1.0 <1.0	< 1.0 < 1.0	<1.0 <1.0	- :	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <	1.0	<1.0 < 1/2 <1.0 < 1/2	<1.0 <1.0	8.6 <1.0	<1.0 <1.0	<1.0 <1.0	< 1.0 < 1.0	12 7.3	< 1.0 < 1.0	<1.0 <1.0 <1.0 <1.0
PCB congener 81 PCB congener 77	701		-	-	-			< 0.010		-	-	-	-	-	-	-	-	-							-	-	-		
PCB concerner 105								< 0.010																					
PCB congener 114 PCB congener 123 PCB congener 125 PCB congener 156 PCB congener 157 PCB congener 157			- :	- :	- :	- : -	: :	< 0.010			-:-		- :		- :	- :			:	-			-		- :		-:-	===	
PCB congener 157 PCB congener 167								< 0.010 < 0.010 < 0.010																					
PCB concerner 169 PCB congener 189 Total PCBs (12 Congeners)		- :		-	-	- :	1 1	< 0.010	-				-			- :			-			-	-	-	- 1	- 1			=======================================
Polyaromatic Hydrocabors Naphthalene (ac) Acesaphthylene (ac)	901 2 (AA) (1 52) 130 (MAC 152)	0.3	< 0.010	0.95	41	< 0.010 < < 0.010 <	0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.25	32	< 0.010	0.27 <0	.010	< 0.0	42	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010 < 0.010 < 0.010
																2.0	26	< 0.010	0.010 <1	010									
Phonene (aq) Phenanthrens (aq) Anthracene (aq) Fluoranthrens (aq) Pyrens (aq)	0.1 (AA 5 MAC) (1 5 2) 0.0063 (AA) (1 5 2) 0.12 (MAC 1)	< 0.0 < 0.0	10 < 0.010 10 < 0.010	0 < 0.010 0 < 0.010 0 < 0.010 0 < 0.010 0 < 0.010	3.7 0.48	< 0.010 < 0.010 <	0.010 <0.010 0.010 <0.010 0.010 <0.010 0.010 <0.010 0.010 <0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	<0.010 <0.010 <0.010 <0.010 <0.010	0.53 < 0.010 < 0.010 < 0.010	< 0.010	< 0.010 < 0.010 < 0.010 < 0.010	0.010 <1	.010 .010	- <0.0 - <0.0	0 < 0.010 0 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	<0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010
	0.0063 (AA) (1 & 2) 0.12 (MAC 1)	<00	50 < 0.010 50 < 0.010	0 < 0.010	0.46	< 0.010 < 0.010 <	0.010 < 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010			< 0.010	0.010 <1	010	. <0.0	0 <0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	<0.010	< 0.010 < 0.010 < 0.010 < 0.010
Chrysens (aq) Chrysens (aq) Berurobifluoranhens (aq) Berurokifluoranhens (aq)	0.017 (MAC) (162) 0.017 (MAC) (162)	< 0.0 < 0.0	10 < 0.010	< 0.010 < 0.010 > < 0.010	< 0.010	< 0.010 < 0.010 < 0.010 < 0.010 < 0.010 <	0.010 < 0.010 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010 < 0.010 < 0.010	0.010 <1 0.010 <1 0.010 <1	.010	- <0.0	0 <0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	<0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010
Beruto(a(pyrene (aq)	0.017 (MAC) (182) 0.00017 (AA) (182) MAC (0.27 (1) 0.027 (2))	< 0.0	10 < 0.010	< 0.010	< 0.010	< 0.010 < 0.010 <	0.010 < 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.010 < 0	.010	- < 0.0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010 < 0.010 < 0.010
Indeno(1,2,3-odlovrene (ad) Dibenzo(s hianthracene (ad) Beruo(g.h.)(perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	< 0.0 < 0.0 < 0.0	50 < 0.010 50 < 0.010 10 < 0.010	0 < 0.010 0 < 0.010 0 < 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010 < 0.010 <	0.010 < 0.010 0.010 < 0.010 0.010 < 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010 < 0.010 < 0.010	< 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010	0.010 <1 0.010 <1		- <00 - <00 - <00	< 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010 < 0.010	< 0.010	< 0.010	< 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010
PAH, Total Detected USEPA 16 (a INORGANICS	mg1	0.3	< 0.20	0.95	88	< 0.010 < 0.20 .	0.20 < 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.010 < 0.20	< 0.20	2.9	66	< 0.010 < 0.20	0.010 <0 0.27 <	20	. <0.0	49	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.010 < 0.010 < 0.20 < 0.20
Dissolved Organic Carbon Total Inorganic Carbon Total Organic Carbon		131 841 971	5.1 5 100 5 4.7	150 120 150	250 850 250	3.4 34 3.6	3.8 · · · · · · · · · · · · · · · · · · ·	5.3	9.8	43 67	150 240 170	4.5	15 50 5.1	<2.0		52 38 42	370 340 390	160	20 .		59 30 	62 410 200	170	39	o1 :	- 1	310	- 34	- 110 - 130 - 110
Total Organic Carbon Dissolved Methane pH	6-9	0.4	< 0.050	150 0 < 0.050 5.9 1300	2.3 6.7 1600	< 0.050	0.050 . 8 7.6	6.5	ż	< 0.050 6.3	1.5 6.4	7.8	< 0.050 8.1	6.5	6.6	< 0.050 6.9 43	2.6 8.2	7.1	6.5	Ä	67 7	0.065	6.8	7.2	7.3	8.1	7.5	72	7.7 7.1 85
pH Dissolved CC2 Alkalinity (Total) Chloride	250 (5)	350	0 430	1300 490	1600 3600 74 0.29	10 140	4.5 - 210 180 36 -	240 53	720	200 180 85	840 980	160	3.5 210 29	63	130	43 160 28	18 1400	570	930 4		810 860 47 53	500 1700 180	3000	520 17	240 41	680 46	4500	790 24	540 520
Ammonia (Free) Ammonium	0.3 (1) Types 3.5 and 7 (seconds 3)	6.1 110	19 5 0.51 5 5.2	< 0.050	0.29 150	< 0.050 < 0.67	0.050	< 0.050 5.1	< 0.050 8.7	< 0.050 4.1	980 0.18 180	< 0.050 0.49	0.42 9.3	< 0.050 0.24		< 0.050 14	13	43 0.14 28		.050 .8	9/ 53 0.051 0.09 25 21	180 0.14 49	0.37 130	< 0.050 2.6	< 0.050 3.2	0.79 15	760	0.11 15	56 31 0.94 0.074 42 13
Ammonia (Free) Ammoniam Ammoniacal Nitroen Nitrie Nitrate		< 0.0	20 < 0.020	< 0.020	< 0.020	0.025	0.020	< 0.020	0.028	0.023	< 0.020 < 0.50	< 0.020	< 0.020 7.7		0.93		< 0.020	< 0.020	0.020 <0	.020	< 0.020 0.02 < 0.50 < 0.5	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020 < 0.50	< 0.020 < 0.020 < 0.50 < 0.50
Sulphate Cyanide (Total) Low-Level	250 (5) 250 (5) 0.001 (AA), 0.005 (95%lie) (182)	<1. <0.00	2030 0 <1.0 250 <0.005	< 0.50 170 0 < 0.0050	< 1.0 < 0.0050	12 0.012 <	30 55 0.0050 < 0.005	52	< 1.0 < 0.0050	45 < 0.0050	29	12	17 < 0.0050	18 < 0.0050	24 < 0.0050	0.010	17 < 0.0050	12	7.5	15	18 15 c 0.0050 0.01	270	9.5	< 1.0 < 0.0050	50 < 0.0050	200 < 0.0050	< 1.0	37	3 12
Sulphide Polassium		< 0.0 83	50 < 0.050 5.6	0 < 0.050 0 < 0.050	< 0.050 83	< 0.050 < 3.6	0.050 - 2.8 -	4.3	7.3	< 0.050 2.3	< 0.050 35	3.9	< 0.050 9.3	2.3		< 0.050 8.0	< 0.050 98	29	36	A	30 32	< 0.050 28	76	5.4	4.7	14	450	11	< 0.0050 < 0.0050 - < 0.050 25 10
Magnesium Sodium	200 (5)	74 201	7.8	300	45 92	7.5 12	24 :	19 39	112	35	560	65 18	4.5 15	5.4 18		4.5 16	51 240	15 29	49 40	14	43 52	49 150	82 250	7.9 8.3	5.6 13	17 55	160 620	12	40 14 40 22
The Water Framework Directive (Pri The Water Framework Directive (Pri	orly Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.	dere																											

1. The first Promoted Device (Parties and Charicated Register) in the control of

IAMC - This parameter is the Environmental Cuality Standard expressed as a maximum allowable concentration (MAC-EDD), Where the MAC-EDDs are resided as "not applicable", the AA-EDD solution are considered protective applicate from publishor pasks in continuous discharges since they are supplicately lower than the value derivated on the basic disclaration?

They are spirituding from the first deal and and on the base of contenting.

March 1 2000 and content on the base of contenting from the contentin

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---|--|--|
| Sample Point /
Determinands | | MBAT PNEC (up/l) | BH401 | BH402 BH403 | 2S BH403 | 81140 | 14 BHS180
 | BH619D | BH6195 | BH620 | BH621 | BH622 | BH623D | BH624D BH62
 | is 8H625 | BH626 | BH627 | BH628 | BH629 | BH530 | BH631 | BH632
 | BH633 | BH634 | BH635D BH635S
 | 8H636D | BH636S | BH637 | BHS38 | 8H051 | BH653 BH654 | D BH654S
 |
| HEAVY METALS Agreeic (days fit) Boron (days fit) | 50 (AA) (1) 25 (AA (2) | | | | | | 2.6
 | 4.5 | 9.5 | 0.54 | 0.37 | 1.4 | 3.5 | 1.1 1.1
 | 5.9 | | | | | | | 1.2
 | < 0.20 | 1.5 | 1.2 0.52
 | 1.1 | - 11 | 1.1 | , | 7.6 | 4.4 2.7 | 5.4
 |
| Boron (diss.filt) Barken (diss.filt) Bervillum (diss.filt) | 50 (AA) (1) 25 (AA (2)
1000 (5)
700 (8) | | - | - : | | - | 170
70
 | 57
93 | 27
110 | 63
100 | 55
45 | 96 | 430 | 740 970
290 220
 | 730
120 | - : | - : | - | - 1 | - : | - | 320
110
 | 190
26 | 80
170 | 220 200
89 120
 | 270
100 | 1200
250 | 100
160 | 12
24 | 420
320 | 700 430
120 310 | 370
160
 |
| Beryllium (des. filt) Cadmium (das. filt) Chromium (das. filt) | 0.09 (AA) & 0.6 (MAC) (1) 0.6 CaCO ₂ 50 - <100 mg/l | | - | - : | - : | | < 0.11
< 0.11
 | 0.13 | 0.22 | <0.11 | 0.62 | < 0.11 | < 0.11 | 20.11 20.1
 | 1 <0.11 | - : | -:- | _:_ | | - : | -:- | < 0.11
 | < 0.11
< 0.50 | < 0.10
< 0.11
< 0.50 | <0.11 <0.11
0.60 1.4
 | < 0.10
< 0.11
< 0.50 | <0.11 | <0.11 | < 0.11 | 0.2 | 0.13 < 0.11 | 0.15
< 0.50
 |
| | 1 (AA) bioayallable (see Note 1) (1) (see Note 1) (2) | 34.94 | - | | | _ | 10
 | 3.5 | 3.1 | 3.9 | 35 | 0.73 | 1.1 | 0.51 0.61
 | 1.5 | - | | | | - | - | 0.76
 | | |
 | | | < 0.50 | < 0.50
< 5.0 | 2 | 28 35 | 3.9
510
 |
| Iron (diss.)
Mercury (diss.fit)
Manganese (diss.fit) | 1 (AA) bioavailable less faint () (1) (are faint () (2)
1000 (AA) (182)
0.07 MAC (182)
122 (AA) (are rate) | 276.92 | | | | | < 0.05
 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 < 0.0
 | < 0.05 | | | | | | | < 0.05
 | < 0.05 | < 0.05 | < 0.05 < 0.05
 | 0.17 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 < 0.05 | 0.05
 |
| Molybelenum (das.filf)
Nickel (das.filf) | 122 (AA) (*** min**)
70 (8)
4************************************ | 14.98 | - | | - | - | 1.7
5.5
 | 2
11 | 2.3
8.1 | 0.35
6.4 | < 0.20
25 | 2.4 | 2.7 | <0.20 < 0.2
4.5 5.0
 | 0 < 0.20
9.2 | -:- | -:- | -:- | | - : - | | 081
2.1
 | < 0.20
1.5 | 0.31
7.3 | 15000 37300
< 0.05 < 0.05
3200 2200
0.74 0.21
3.0 2.5
< 0.50 < 0.50
 | 5.6
2.4 | 5.3
43 | 0.59 | 0.59
2.0 | < 0.20
30 | 0.46 2.8
26 10 | 3.5
9.5
 |
| Lead (das.fit) Antmony (das.fit) | 5(5) | 9.54 | | | | | < 0.50
< 0.50
 | 5
0.82 | 4.1
< 0.50 | < 0.50
< 0.50 | < 0.50
< 0.50 | < 0.50 | 1.2 | < 0.50 < 0.5
< 0.50 < 0.5
 | 0 6.2 | | | | | | | 0.68
< 0.50
 | < 0.50 | < 0.50
< 0.50 | < 0.50 < 0.50
< 0.50 < 0.50
 | < 0.50 | 2.3
1.1 | < 0.50 | < 0.50 | 1.7 | 2.7 5.2
< 0.50 < 0.50 | 3.5
9.5
0.72
0.50
 |
| Selenium (diss filt) Zinc (diss filt) Iron (Total) | 10 (10)
10.9 (AA) (1) +ABC bloavailable 6.8 (AA) (2) +ABC (too block) | 37.15 | - | | | | 0.64
15
 | 5.2
87 | 2.6
110 | < 0.50
120 | < 0.50
11 | < 0.50
37 | 2.9
33 | < 0.50 < 0.5
6.6 13
 | 0.98 | | | | | | - :- | < 0.50
17
2600
 | < 0.50
5.3 | < 0.50
12 | < 0.50 0.76
17 30
 | < 0.50
7.5 | 63.0 | < 0.50
< 2.5 | × 0.50
3.5 | 60 | 2.4 < 0.50
40 38 | 2.7
20
510
3800
200
3400
50
 |
| Manganese (Total) Manganese (II) | | | | 19000 5000
1900 5100 | | 1400
2201 | 0 15
0 5400
0 2200
 | | - | | 1700
1400 | 2100
5400
2500 | 2400
510 | 7200 1600
7200 490
650 670
 | | 45000
2500 | 8700
400 | | 8000
2500 | 13000 | 860 | 4800
2500
 | 390
390 | 17000
200 | 3200 37000
3200 2400
1500 400
 | 460
(10 | 2700
53 | 4000
4000 | | 14000
2500 | 26000 -
2100 - | 3800
200
 |
| Manganese (N)
lesn (II) | | | 500
50 | | 0 2200 | 1200 | 0 3300
 | - | - : | - | 320
< 20 | 5800
20 | 1700
70 | 6500 420
1000 486
 | | 43000
70 | 7000
60 | | 5600
70 | 13000 | 800
60 | 4300
60
 | < 1.0
< 20 | 17000
40 | 1700 1900
50 20
 | 450
930 | 2400
16000 | 3600 | - | 9500
< 20 | 24000 - | 3400
50
 |
| Iron IIII
Chromium III (dass.filt) | 4.7 (AA) (1) 95th hile (22)
3.4 (AA) (1) 9.6 (AA) (2) 32 (55th hile) (2) | | 22000 | 930 9500 | 0 31000 | 3800 | 0 <20
 | < 20 | < 20 | < 20 | 55
< 20 | 2000 | 15000 | 16000 1600
< 20 < 2
 | 2 - | 15000 | 35000 | -:- | 3900 | 1600 | < 20 | 2500
< 20
 | 1000 | 34000
< 20 | 15000 37000
< 20 < 20
 | < 20
< 20 | < 20 | 1700
< 20 | < 20 | 20000 | 3200 -
< 20 < 20 | 460
< 20
 |
| Chromium VI (diss.fill) Phenols | 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)
 | | - | | | _ | < 0.10
 | < 0.10 | < 0.10 | < 0.10 | 2.7 | - | | < 0.10 < 0.1
 | 0 0.17 | - | | - | - | | í | < 0.10
 | < 0.10 | < 0.10 | < 0.10 < 0.10
 | | | | | < 0.10 | | < 0.10
 |
| Phenole, Total
TPH | 7.7 (182) 46 (35th/Sile) (182)
ug l | | | | _ | _ | < 0.030
 | 0.22 | < 0.000 | < 0.030 | < 0.030 | < 0.030 | < 0.030 | < 0.030 < 0.0
 | 0 < 0.030 | < 0.030 | < 0.030 | < 0.030 | < 0.030 | < 0.030 | < 0.030 | < 0.030
 | < 0.000 | < 0.030 | < 0.030 < 0.030
 | < 0.030 | < 0.030 | < 0.000 | < 0.030 | < 0.030 | < 0.030 < 0.03 | 0 < 0.030
 |
TPH>C5-C8 TPH>C5-C10			-	- :	-	
 | | | - | | < 0.10
< 0.10
< 0.10 | < 0.10
< 0.10
< 0.10 |
 | | | | _ | - | - | - |
 | - | |
 | | | - | - | | |
 |
| TPH >CB-C10
TPH >C10-C12
TPH >C12-C16
TPH >C15-C21 | | | - | | | # | -
 | | + - | | | < 0.10 | < 0.10 | |
 | | | | - | | | |
 | | |
 | + | + : | | | | |
 |
TPH >G21-G25 TPH >G25-G35						E:
 | | | - : | _ :_ | 39
320 | < 0.10 |
 | | <u> </u> | | | | | |
 | | |
 | | | | <u> </u> | | |
 |
| TPH >C35-C40 | | | | | | |
 | | | | | 10
370 | < 0.10 | - : :
 | | | | | | | |
 | | |
 | | | | | | |
 |
| Speciated 1PH Aliphatics EC C5-C5 | eg l | | | < 0.10 < 0.1 | | |
 | | | | | | | < 0.10 < 0.1
 | | | | | | | |
 | | | < 0.10 < 0.10
 | | | | | | |
 |
| EC-C5-C5
EC-C5-C5 | 15000 (7)
15000 (7) | | < 0.10 | < 0.10 < 0.1
< 0.10 < 0.1 | 0 < 0.10 | < 0.1 | 0 < 0.10
0 < 0.10
 | < 0.10 | < 0.10 | < 0.10 | < 0.10
< 0.10 | | | < 0.10 < 0.1
< 0.10 < 0.1
 | 0.10 | < 0.10
< 0.10
< 0.10
< 0.10 | < 0.10 | < 0.10 | - | < 0.10 | < 0.10 | < 0.10
 | < 0.10 | < 0.10 | < 0.10 < 0.10
< 0.10 < 0.10
 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10
< 0.10 | < 0.10 < 0.10
< 0.10 < 0.10 |
 |
| EC-CS-CS
EC-CS-C10
EC-C10-C12
EC-C12-C16 | 300 (7)
300 (7) | | | <0.10 < 0.1
<0.10 < 0.1
<0.10 < 0.1
<0.10 < 0.1 | | |
 | < 0.10 | < 0.10
< 0.10
< 0.10 | < 0.10 | < 0.10 | | | <0.10 < 0.1
<0.10 < 0.1
<0.10 < 0.1
 | | < 0.10 | < 0.10 | < 0.10 | | < 0.10 | < 0.10 | < 0.10
 | < 0.10 | < 0.10 | <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10
<0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0. | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 < 0.10 | 0 < 0.10
0 < 0.10
0 < 0.10
0 < 0.10
 |
| EC:-C16-C21
EC:-C21-C35
EC:-C35-C44 | | | < 0.10 | < 0.10 < 0.1
< 0.10 4800
< 0.10 < 0.1 | 0 <0.10 | < 0.1 | 10 < 0.10
10 < 0.10
 | < 0.10
2500 | < 0.10
< 0.10 | < 0.10
< 0.10 | < 0.10 | - | | < 0.10 < 0.1
< 0.10 < 0.1
 | 2 < 0.10 | < 0.10
500 | < 0.10
< 0.10 | < 0.10
< 0.10
< 0.10 | | < 0.10
< 0.10 | < 0.10 | < 0.10
 | < 0.10 | < 0.10
< 0.10
< 0.10 | <0.10 <0.10
<0.10 <0.10
<0.10 <0.10
 | < 0.10 | < 0.10 | < 0.10 | < 0.10
51 | < 0.10
< 0.10 | < 0.10 < 0.10
1500 180 | 4 0.10
4 0.10
 |
| EC>C35-C44
Total Alighatics >C5-C35 | | | < 0.10 | < 0.10 < 0.1
< 5.0 4800 | 0 < 0.10 | < 0.1
< 5.0 | 10 < 0.10
0 < 5.0
 | < 0.10
2500 | < 0.10
< 5.0 | < 0.10 | < 0.10 | | | < 0.10 < 0.1
< 5.0 < 5.
 | 0 < 0.10
2500 | < 0.10
500 | < 0.10
< 5.0 | < 0.10 | | < 0.10
< 5.0 | < 0.10
< 5.0 | < 0.10
< 5.0
 | < 0.10
< 5.0 | < 0.10
< 5.0 | < 0.10 < 0.10
< 5.0 < 5.0
 | < 0.10
< 5.0 | < 0.10
< 5.0 | < 0.10
< 5.0 | < 0.10
51 | < 0.10 | < 0.10 < 0.10
1500 180 | 2 < 0.10
< 0.10
0 < 0.10
0 < 5.0
 |
| Aromatica
EC C5-C7 | 10 (7) | | < 0.10 | < 0.10 < 0.1 | 0 < 0.10 | 330 | < 0.10
 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | - | | < 0.10 < 0.1
 | 0 < 0.10 | < 0.10 | < 0.10 | < 0.10 | - | < 0.10 | < 0.10 | < 0.10
 | < 0.10 | < 0.10 | < 0.10 < 0.10
 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 < 0.10 | < 0.10
 |
| EC>C5-C8
EC>C8-C10 | 700 (7)
300 (7) | | < 0.10 | < 0.10 < 0.1
< 0.10 < 0.1 | 0 < 0.10
0 < 0.10 | 790
150 | < 0.10
 | < 0.10 | < 0.10 | | < 0.10 | - | - : | < 0.10 < 0.1
< 0.10 < 0.1
 | 0 < 0.10
0 < 0.10 | 89
< 0.10 | < 0.10 | < 0.10
< 0.10
< 0.10 | | < 0.10
< 0.10
< 0.10 | < 0.10 | < 0.10
 | < 0.10 | < 0.10 | <0.10 <0.10
<0.10 <0.10
<0.10 <0.10
 | < 0.10 | < 0.10
< 0.10 | < 0.10 | < 0.10 | < 0.10
< 0.10
< 0.10
< 0.10
< 0.10 | < 0.10 < 0.10
< 0.10 < 0.10 | < 0.10
 |
| EC:-C16-C12 | 90 (7)
90 (7) | | < 0.10 | 110 < 0.1
< 0.10 < 0.1 | 0 < 0.10 | 730 | < 0.10
 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | | | < 0.10 < 0.1
< 0.10 < 0.1
< 0.10 < 0.1
 | 25 | 170 | < 0.10 | < 0.10 | - : | < 0.10 | < 0.10 | < 0.10
 | < 0.10 | < 0.10 | < 0.10
 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 < 0.10 | 0 < 0.10
0 < 0.10
0 < 0.10
 |
| Total Blankton xCS-CSS Anomalica EC CS-CTS EC-CS-CSS EC-CS-CSS EC-CS-CSS-CSS EC-CS-CSS-CSS-CSS-CSS-CSS-CSS-CSS-CSS-CS | \$0 (7) | | < 0.10
< 0.10
< 0.10
< 5.0 | < 0.10 < 0.1
< 0.10 < 0.1
< 0.10 < 0.1 | 0 < 0.10
0 < 0.10
0 20 | < 0.1 | 10 < 0.10
10 < 0.10
 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | | | <0.10 < 0.1
< 0.10 < 0.1
< 0.10 < 0.1
< 5.0 < 5.
 | 0 < 0.10 | < 0.10 | < 0.10 | < 0.10
< 0.10
< 0.10
< 5.0 | | < 0.10
< 0.10
< 0.10
< 5.0 | < 0.10 | < 0.10
 | < 0.10
< 0.10
< 0.10 | < 0.10
< 0.10
< 0.10 | < 0.10 < 0.10
< 0.10 < 0.10
< 0.10 < 0.10
< 5.0 < 5.0
 | < 0.10 | < 0.10
< 0.10
< 0.10 | < 0.10 | < 0.10
< 0.10
< 0.10
< 5.0 | < 0.10 | < 0.10 < 0.10 | 0 <0.10
0 <0.10
0 <0.10
< 5.0
 |
| Total Aromatics >EC5-EC35 Total Alphatics & Aromatics >C5-35 | 5 | | < 5.0
< 10 | 110 < 5.0
120 4800 | 20 | 5700
5700 | 0 <5.0
0 <10
 | < 5.0
2500 | < 5.0
< 10 | < 5.0
< 10 | < 5.0
< 10 | | | <5.0 <5.
<10 <10
 | 160 | 420
920 | < 5.0
< 10 | < 5.0
< 10 | | < 5.0
< 10 | < 5.0
< 10 | < 5.0
< 5.0
< 10
 | < 5.0
< 10 | < 0.10
< 5.0
< 10 | < 5.0 < 5.0
< 10 < 10
 | < 5.0
< 10 | < 5.0
< 10 | < 0.10
< 5.0
< 10 | < 5.0
51 | < 5.0
< 10 | <5.0 < 5.0
1500 180 | < 5.0
< 10
 |
| BTEX MTBE GRO
MTBE | 10 (AA) MAC 50 (3) A(AA) MAC 50 (2) | | | < 1.0 < 1.0 | <1.0 | < 1.0 | 0 <1.0
 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | - | | <1.0 <1.
 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | - | < 1.0 | < 1.0 | < 1.0
 | < 1.0 | < 1.0 | < 1.0 < 1.0
 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | <1.0 < 1.0 | < 1.0
 |
| Berusne
Toluene
Ethylberusne | 10 (AA) MAC 30 (1), 5 (AA) MAC 30 (2)
74 (AA) 25th7sile (380) (1), 74 (AA) 25th7sile (370) (2)
300 (5) | | - | 5400 < 1.1 | 10
10
10
10 | 1700 | <1.0
 | <1.0 | < 1.0
< 1.0
< 1.0 | < 1.0
< 1.0
< 1.0 | < 1.0
< 1.0
< 1.0 | | | <10 <1,
<10 <1,
<10 <1,
 | < 1.0 | 7.7 | <10
<10 | <1.0
<1.0
<1.0 | | <1.0
<1.0
<1.0 | < 1.0
< 1.0
< 1.0 | <1.0
<1.0
 | | < 1.0
< 1.0
< 1.0 | c1.0 c1.0
c1.0 c1.0
20 25
67 82
 | <1.0
<1.0 | 2.5
1.4
18 | <1.0 | < 1.0
< 1.0
< 1.0 | <1.0 | <1.0 <1.0
<1.0 <1.0
<1.0 <1.0 | <1.0
<1.0
<1.0
<1.0
<1.0
 |
| n/m-Yv/ene | | | - | 170 . 14 | | |
 | | | | | | |
 | | | | | | < 1.0 | < 1.0 | <10
 | <1.0 | C 1.0 |
 | | | | | | C1.0 | < 1.0
 |
| n-Yelena | 390 (d) | | | 600 < 1.0
170 < 1.0
59 < 1.0
40 < 1.0 | <1.0
<1.0 | 50 | <1.0
<1.0
 | <1.0
<1.0
<1.0 | < 1.0
< 1.0 | <1.0
<1.0 | <1.0 | - : | | <1.0 <1.
<1.0 <1.
 | 8.2
5.3 | 8.2 | < 1.0 | <1.0 | - : | | | <10
 | <10 | <1.0 | 6.7 8.2
 | <1.0 | 15
39
8.5 | <1.0
<1.0 | < 1.0 | <1.0 | c1.0 c1.0 |
 |
| PGBs PCB congener 81 | 300 (d) | | | 170 c.1.6
59 c.1.6
40 c.1.6 | 0 <1.0
0 <1.0
0 <1.0 | 69
45 | <10
<10
<10
 | <1.0
<1.0
<1.0 | < 1.0
< 1.0
< 1.0 | < 1.0
< 1.0
< 1.0 | < 1.0
< 1.0 | | | <1.0 <1.0
<1.0 <1.0
<1.0 <1.0
· · · ·
 | 82
53 | 8.2
< 1.0 | < 1.0
< 1.0 | <1.0
<1.0 | | < 1.0 | <1.0 | <1.0
 | < 1.0 | < 1.0
< 1.0 | 67 82
<1.0 <1.0
 | <1.0
<1.0 | 15
22
8.6 | <1.0
<1.0
<1.0 | < 1.0
< 1.0 | <1.0
<1.0 | c10 c10
c10 c10 | <1.0
 |
| o-X/sens PGBs PCB congener 81 PCB congener 77 PCB congener 105 | 200 (8)
201 | | | 170 < 1.6
59 < 1.6
40 < 1.6
 | 0 <10
0 <10
0 <10
0 <10 | 65 | <1.0
<1.0
<1.0
 | <1.0
<1.0
<1.0 | < 1.0
< 1.0
< 1.0 | <1.0
<1.0
<1.0 | < 1.0
< 1.0
< 1.0 | | | <1.0 <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.0
 | 17
82
53 | 1.2
< 1.0 | < 1.0
< 1.0 | <1.0
<1.0 | | <1.0 | ×1.0 | <1.0
 | <1.0 | <1.0
<1.0 | 6.7 82
<1.0 <1.0
 | <1.0
<1.0
: | 15
39
5.6 | <1.0
<1.0
<1.0 | < 1.0
< 1.0
< 1.0 | <1.0
<1.0 | <10 <10 <10 <10 <10 · · · · · · · · · · · · · · · · · · · | :
 |
| PCB congener 51 PCB congener 77 PCB congener 105 PCB congener 114 PCB congener 114 | 200 (B)
pol 1 | | | 170 < 13
59 < 13
40 < 13 | 2 <10
2 <10
2 <10
3 <10 | 55
 | <10
<10
<10

 | <1.0
<1.0
<1.0 | < 1.0
< 1.0
< 1.0 | <1.0
<1.0
<1.0 | <1.0
<1.0
<1.0 | | | <1.0 <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.0
 | 17
82
53 | 8.2
<1.0 | < 1.0
< 1.0
 | <1.0
<1.0 | | <1.0 | <1.0 | <10
-
 | \$10
 | <1.0
<1.0 | 67 82
<10 <10

 | <1.0
<1.0
<1.0 | 15
29
8.6 | <1.0
<1.0
<1.0 | < 1.0
< 1.0
< 1.0 | <1.0
<1.0 | <10 <10
<10 <10 |
 |
| PCB congener 51 PCB congener 77 PCB congener 105 PCB congener 114 PCB congener 114 | 592 (8
ps1 | | | 170 < 1.170 | 0 <10
0 <10
0 <10
- | 52
45
 | 10
<10
<10

 | <1.0
<1.0
<1.0
<1.0 | < 1.0
< 1.0
< 1.0
 | <1.0
<1.0
<1.0 | <10
<10
<10
 | - | | <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.0
 | 17
82
53 | 82
<10 | <1.0
<1.0 | <1.0
<1.0 | - | < 1.0
-
-
-
-
-
- | <10 | <10
 | <10 | <1.0
<1.0 | 6.7 6.2
<1.0 <1.0

 | <1.0
<1.0
<1.0 | 18
32
86 | <10
<10
<10
 | <1.0
<1.0
<1.0 | c10
c10 | \$10 \$10
\$10 \$10
 |
 |
| PCB congener 51 PCB congener 77 PCB congener 105 PCB congener 114 PCB congener 114 | 200 (S | | | 170 < 1.1 59 < 1.1 40 < 1.4 | 0 <10
0 <10
0 ×10
 | | 10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <
 | <1.0
<1.0
<1.0
<1.0
 | < 1.0
< 1.0
< 1.0
 | <1.0
<1.0
<1.0
<1.0 | <1.0
<1.0
<1.0 | | | <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.1 <1.0 <1.0
 | 52 53 | 52
c1.0 | <10
<10
 | <1.0
<1.0
 | - | <1.0 | <10 |
 | <1.0 | <1.0
<1.0
 | 67 82
<1.0 <10

 | <1.0
<1.0
<1.0 | 18 39 8.6 | <1.0
<1.0
<1.0
: | <1.0
<1.0
<1.0
 | <1.0
<1.0
 | <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 |
 |
| PCB congainer 81 PCB congainer 77 PCB congainer 105 PCB congainer 114 PCB congainer 123 PCB congainer 120 PCB congainer 120 PCB congainer 120 PCB congainer 150 PCB congainer 157 PCB congainer 167 PCB congainer 169 PCB congainer 169 | zel . | | | 170 cl.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 0 <10
0 <10
0 <10
 | | 10 c10 c10 c10 c10 c10 c10 c10 c10 c10 c
 | <1.0
<1.0
<1.0
<1.0 | < 1.0
< 1.0
< 1.0
 | <1.0
<1.0
<1.0
<1.0 | <1.0
<1.0
<1.0
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Sample Point / Determinands		MEAT PNEC	81102	DH114	BH121	BH122	EHCCO	EHGOS	BH213	BH214	BH215	BHG01	BH302	BHSOS	BH405	BH406	BH407	B11400	EH400	BINGTED	BHSIOS	DHS14	BHEISD	BH6155	BH616	BH617	BHS4S	BHS46	BH647A	DHE490	EHW1
HEAVY METALS	pg1																														
Arsenic (das.fill) Boron (das.fill)	50 (AA) (1) 23 (AA (2)		31	< 0.20	< 0.20 75	0.44	< 0.20 44	1.5	3.6	8.4 2000	2.9 890	0.36	110	45 850	1.6 730	3.2	3.6 10	0.42	0.44	17	42 910	0.21		- :	-:-		2.6	9.6	3.6 270	3.4 750	1.3
Barium (das filt) Berylium (das filt)	1000 (5) 700 (8)		500 < 1.0	15 < 1.0	49 < 1.0	23 < 1.0	30 < 1.0	220 < 1.0	25 < 1.0	88 < 1.0	100 < 1.0	83 < 1.0	640 < 1.0	400 < 1.0	140	300 < 1.0	16 <1.0	13 < 1.0	77 < 1.0	450 < 1.0	210 < 1.0	23 <1.0	-	- :	-:-		150 < 1.0	140 < 1.0	< 5.0 < 1.0	250 <1.0	210 < 1.0
Cadmium (diss.fit) Chromium (diss.fit)	0.09 (AA) & 0.6 (MAC) (1) 0.6 (AA) CsCO ₃ 50 - <100 mg1		< 0.11 1.3	< 0.11 6.9	0.19 < 0.50	< 0.11 0.69	< 0.11 < 0.50	< 0.11	< 0.11 12	4 G.11 20	< 0.11	< 0.11	< 0.11 10	5.2	< 0.11 1.2	< 0.11 2.7	< 0.11	< 0.11	< 0.11	< 0.11 20	< 0.11 6.1	< 0.11 0.56	-		-		< 0.11 18	21	< 0.11 0.9	< 0.11 1.1	5.1
Copper (diss.fit) Iron (diss.)	50 (5) 1 (AA) bioavallable (see Note () (1) (see Note () (2) 1000 (AA) (152)	34.94	49000	2.5 < 5.0 < 0.05	1.7 < 5.0 < 0.05	53 50	0.78 < 5.0	0.51 96	17000	42 24000	4000	16000	9900	8.6 57000	0.61 92	0.67 290	< 0.50 140	0.56 20	V 0.50	< 0.50 16000	< 0.50 \$1000	0.57 < 5.0		- :	-		2.2 68000	62000	21 610	1.9 61	5.5 2000 < 0.05
Mercury (diss.fit) Manganese (diss.fit)	0.07 MAC (162) 122 (AA) (*********************************	276.92	< 0.05 790	25	360	< 0.05	< 0.05 930	1000	< 0.05 500	< 0.05 360	< 0.05 1000	< 0.05 1500	< 0.05	2100	< 0.05 11000	< 0.05 9200	1900	470	< 0.05 510	0.17 4900	< 0.05 1900	< 0.05 92				_	2000	V 0.05	< 0.05	13000	< 0.05 1000
Molybdenum (dax.filt) Nickel (dax.filt)	4 (AA) (1), 8,5 (AA) (2), 34 (MAC) (162)	14.90 3.64	1.7	< 0.20 1.2	13 13	< 0.20 9.7	< 0.20 4.6	< 0.20 7.8	1.9	2.5 310	2.9 37	1.4 11 < 0.50	170	22	0.37 19	1.4 16	4.9	0.24 0.97	0.26	5.3 110	3.9 21	0.38 1.2	- :	- :	-:-		5.1 24	2.2 70 4.7	11	9.2 27	7.9 2.7
Lead (diss.fit) Antimony (diss.fit) Selenium (diss.fit)	1.2 (AA) (1), 1.2 (AA) (2), 14 (MAC) (142) 5 (5) 10 (10)	2.64	1.2	< 0.50 < 0.50	< 0.50 < 0.50	< 0.50 < 0.50 < 0.50	< 0.50 < 0.50	< 0.50 < 0.50	1.6	25 25	1.3 1.6 <0.50	< 0.50	4.2 2.3	0.85	< 0.50 < 0.50	< 0.50 < 0.50	< 0.50 < 0.50	< 0.50 < 0.50	< 0.50 < 0.50	2.0	1.0	< 0.50 < 0.50		- :	- :	_	2.1	4.7 2.4 < 0.50	< 0.50 0.70 8.8	< 0.50 0.60	0.52 < 0.50
Zinc (diss.fit) Iron (Total)	10.9 (AA) (1) +ABC biographic 6.3 (AA) (2) +ABC (************************************	37.15	120	9.2	14	14	10	8.6	190	190	190	11	42	100	4.4	5.9	4	18	4.6	130.0	22.0	9.1	i		7000		130	170	< 2.5	92	4
Manganese (Total) Manganese (II)				25	270	580											1600	490	540 130	4900		92	140	5700 470	3800					13000	===
Manganese [W]				360 40	340 270	520 40	-:-	- :	- :	- :	-	-:-	-	-:-	- :	- :	750 60	440 60	290 < 20	3600 420	- :	40 < 20	140	5200 14000	2000	- :	- :	-	- :	13000	==
Iron (III) Ohromium III (das.filt)	4.7 (AA) (1) 95th/58e (22)		< 20	< 20	< 20	<20 <20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	41 < 20	<20 <20	35 < 20	16000	< 20	< 20 < 20	< 20	<20	7700	-	< 20	21	< 20	61 < 20	< 20
Chromium W (dax.fit)	2.4 (AA) (1), 0.5 (AA) (2), 22 (\$595160) (2)		< 0.10	2.7	< 0.10		< 0.10		< 0.10		< 0.10					< 0.10	< 0.10		< 0.10	0.23	< 0.10	< 0.10		-	-	-	< 0.10	< 0.10	0.34	< 0.10	
Phenois, Total Speciated TPH	2.7 (182) 46 (SSENSIR) (182) ug 1		< 0.030	-	< 0.030	< 0.000	< 0.000	< 0.030	< 0.000	< 0.030	< 0.000	< 0.000			< 0.030	< 0.000			< 0.000	< 0.000	< 0.000	< 0.030	< 0.030	< 0.000	< 0.030	< 0.030	0.57	1.2	< 0.000	< 0.030	< 0.030
Alphatics EC C5 C6	15005 (7) 15009 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.90	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.90	< 0.10	< 0.10	< 0.10
EC>CS-CS EC>CS-CS	15000 (7) 200 (7) 300 (7)		< 0.10	< 0.10 < 0.10	< 0.10	< 0.10 < 0.10	< 0.10	< 0.10 < 0.10	< 0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10	< 0.10	< 0.10	55 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.90 < 0.90	< 0.10	< 0.10 < 0.10	< 0.10
EC;C19:C12 EC;C12:C16 EC;C16:C21	300 (7) 300 (7)		< 0.10 < 0.10 < 0.10	< 0.90 < 0.90 < 0.90	< 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 33	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.90 < 0.90 < 0.90	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10
EC:C21-C25 EC:C25-C44			< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10	500	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10 < 0.10	< 0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
			<5.0	< 0.90 < 5.0	< 0.10 < 5.0	< 0.10 < 5.0	< 0.10 < 5.0	33	< 5.0 < 5.0	₹5.0	₹5.0	×5.0	< 0.10 < 5.0	< 5.0 < 5.0	< 5.0	₹5.0	< 5.0 < 5.0	<5.0	<5.0	55	₹5.0	< 5.0	<5.0	< 5.0 < 5.0	< 0.10 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0	<5.0	< 5.0
Aronatics EC GS-G7 EC:-C7-C6 EC:-C8-C10	10 (7) 700 (7)		< 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10	< 0.10 < 0.10	< 0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10 < 0.10	< 0.10 < 0.10	120 230	< 0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10 92	< 0.10	< 0.10 < 0.10	< 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10	< 0.10 < 0.10	< 0.10	< 0.10 < 0.10	< 0.10 < 0.10 < 0.10
	700 (7) 300 (7) 90 (7) 90 (7)					< 0.10	< 0.10 < 0.10	< 0.10 < 0.10	35	< 0.10 240	< 0.10	< 0.10 < 0.10 < 0.10	< 0.10	< 0.10	< 0.10 020	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10	95 140	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10	< 0.10	< 0.10 < 0.10	20	< 0.10 < 0.10	< 0.10	< 0.10 < 0.10 < 0.10	
BC>C12-C16 BC>C16-C21	90 (7) 90 (7) 90 (7)		< 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10 < 0.10 47	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	25 49	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10 < 0.10
EC:/C25-C35 EC:/C35-C44	90 (7)		< 0.10	< 0.10	< 0.10		< 0.10 < 0.10	< 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatics >ECS-ECGS Total Alphatics & Aromatics >CS-25 EXECUTION OF THE COST TOTAL ARTER			< 5.0 < 10	< 0.10 < 5.0 < 10	< 0.10 < 5.0 < 10	< 5.0 < 10	< 5.0 < 10	46 81	120	363	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	1300	< 5.0 < 10	< 0.10 < 5.0 < 10	< 0.10 < 5.0 < 10	< 5.0 < 10	400 450	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	< 0.10 < 5.0 < 10	< 5.0 < 10	< 5.0 < 10	20	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10
GRD>C5-C12	101		-10		-10	-10	-10	-10		-,-	-18	-10	-15	-10	-10	-110	-18	-10	-10	-10	-15	-12	-10	-110				-12	-10		
Berzene Tokene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th/sia (380) (1), 74 (AA) 95th/sia (370) (2)		<1.0	<1.0 <1.0	< 1.0	< 1.0 < 1.0	< 1.0 < 1.0		7.6	7.1	13 6.3	< 1.0 < 1.0	< 1.0 < 1.0		1400	< 1.0 < 1.0	<1.0		<1.0 <1.0	4.0	2.7	<1.0 <1.0	< 1.0 < 1.0	< 1.0 < 1.0			6.4	< 1.0	< 1.0 < 1.0	<1.0 <1.0	< 1.0
Dhybersere pin-Xylene	200 (8)		< 1.0 < 1.0	<1.0 <1.0	< 1.0 < 1.0	×1.0	< 1.0 < 1.0	< 1.0 < 1.0	270 780	17 20		< 1.0 < 1.0	< 1.0 < 1.0	22 34	190	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0	<10 <10			<1.0 <1.0	<10 <10	<1.0 <1.0			25	29	< 1.0 < 1.0	<1.0 <1.0	< 1.0 < 1.0
o-Xylana PCBs	Ho.		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	270	15	16	< 1.0	< 1.0	< 1.0	14	< 1.0	< 1.0	< 1.0	< 1.0	11	21	< 1.0	< 1.0	< 1.0			10	21	< 1.0	< 1.0	< 1.0
PCB congener 81 PCB congener 77						-	-																				< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB congener 105 PCB congener 114 PCB congener 123										-																	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010 < 0.010	< 0.010
PCB congener 126								- :	-			- :	- :	- :		- :	_			- :	- 1	- :		- :	- :	_	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB congener 156 PCB congener 157 PCB congener 167				-		-	-	-	-		-	-	-	-	_	- :	_	-		-		-	-	- :	-	_	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010 < 0.010
PCB congener 169 PCB congener 169 PCB congener 189																											< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Total PCBs (12 Congeners)	Ini					-				_ :		- :		- :	_			- :							- :		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Naphthalene (acj Acessolythylene (ac)	2 (AA) (1 62) 130 (MAC 162)			< 0.010			< 0.010	< 0.010	1.1	0.71	0.66			< 0.010	470 < 0.010	7.3 < 0.010	< 0.010		< 0.010	0.96				0.43	< 0.010	< 0.010	< 0.010	< 0.010	0.49	0.56	< 0.010
Aceraphthene (aq) Fluorene (aq)					< 0.000 < 0.000 < 0.000		< 0.010	< 0.010	0.010	0.000				< 0.010 < 0.010 < 0.010			< 0.010 < 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Phenanthrene (aq) Anthracene (aq)	0.1 (AA & MAC) (1 & 2)		< 0.010	< 0.010	< 0.010	< 0.010		< 0.010 < 0.010 < 0.010			< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010 < 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010 < 0.010
Pluorarithene (acj Pyrene (acj	0.0063 (AA) (1 & 2) 0.12 (MAC 1)		< 0.010 < 0.010	< 0.010	< 0.010 < 0.010 < 0.010 < 0.010	< 0.010	0.010	< 0.010	< 0.010	< 0.010 < 0.010 < 0.010	< 0.010	< 0.010 < 0.010 < 0.010 < 0.010	< 0.010	< 0.010 < 0.010 < 0.010 < 0.010	< 0.010	< 0.010	< 0.010 < 0.010 < 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.000	< 0.010
Benzo(s) anthracene (aq) Chrysene (aq)	A017 (MC) (H.2	+	< 0.010 < 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010 < 0.010	< 0.090	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010 < 0.010	< 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010 < 0.010 < 0.010	< 0.010	< 0.010 < 0.010 < 0.010	< 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010	< 0.010
Berzo(bifluoranthene (ac) Berzo(kifluoranthene (ac) Berzo(kipurene (ac)	0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.00017 (AA) (18.2) MAC (0.27 (1) 0.027 (2)		< 0.010 < 0.010 < 0.010		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010 < 0.010	< 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010 < 0.010	< 0.010	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010 < 0.010	< 0.010	< 0.010 < 0.010	< 0.010 < 0.010 < 0.010	< 0.010	< 0.010 < 0.010	< 0.010 < 0.010 < 0.010
Indeno(1,2,3-cd)pyrene (sq) Diberzo(s,1(anthracene (sq)				< 0.010 < 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010			< 0.010	< 0.000	< 0.010			< 0.010		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010		< 0.010	< 0.010	
Berzolg h./iperylene (agi PAH, Total Detected USEPA 16 (ag)	0.0002 (MAC)(1) & 0.00002 (MAC) (2)		< 0.010 < 0.20	< 0.010	< 0.000	< 0.010	< 0.010 < 0.20	< 0.010	< 0.010	< 0.010	< 0.010 0.66	< 0.010	< 0.010 < 0.20	< 0.010	< 0.010 470	< 0.010 7.3	< 0.010	< 0.010 < 0.20	< 0.010 < 0.20	< 0.010	< 0.010	< 0.010 < 0.20	< 0.010	< 0.010	< 0.010 < 0.20	< 0.010	< 0.010	< 0.010 < 0.20	< 0.010 0.49	< 0.010	< 0.010
INDRGANICS Dissolved Organic Carbon	mgli			2.6	2.6			220	120	130	110	85	580	190	55	50		3.0	3.2	140		3.0			-		240	37	210	240	200
Total Inorganic Carbon Total Organic Carbon				15 210	24 23	82 3.5						-					94 9.3	43 <2.0	41 3.5	890 140		94 2.4	21 24	120 150	500 51					250 270	
Dissolved Methans pH Dissolved CO2	6-9		7.1	< 0.050 7.9	< 0.050 7.4 12	< 0.050 6.8 110	7	7.1	7.3	7.9	7.4	6.7	7.9	6.8	6.9	6.8	0.26 8.3	0.087 6.8	0.84 7.8	< 0.050 7.3	7.1	< 0.050 7.6	0.36	0.1	0.67	_	6.9	6.8	7.5	2.9 7.6 59	6.5
Alkalinity (Total)			980	61	140	340	140	3100	2500	4600	2400	470	2800	2100	1800	1700	3.6 290	57 180	170	250 2700	1200	22 290	2.4 06	41 500	470 2100		2700	2900	940	1100	830
Chloride Ammonia (Free)	230 (5) 0.2 (1) Types 2.5 and 7 (*** *******)	+	210 0.4	23 0.064 1.7	31 < 0.050 2	29 < 0.050	21 <0.050 2.4	120 0.29	380 2.5	1300 21	240 2.6 230	24 < 0.050	16	53 0.25	190 0.35	150 0.3	0.76 8.3	29 < 0.050	55 < 0.050 0.85	750 7.4	71 0.60	16 < 0.050			- :	_	1.3	440 1.3	61 0.29 23	180	0.068 45
Niris Niris	9015		0.037	< 0.020 8.6	0.023	0.042	0.28 14	< 0.020	0.027	< 0.020	< 0.020 < 0.50	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020 < 0.50	< 0.000	0.005	< 0.020 < 0.020	< 0.020	< 0.020 0.91	< 0.020	< 0.020	< 0.020	_:_	< 0.020 < 0.50	< 0.020 < 0.50	0.17 0.6	< 0.020 0.81	< 0.020 < 0.50
Nitrate Sulphate Cyanide (Tota) Low-Level	50 (3) 250 (3) 0.001 (AA), 0.005 (95% lb) (182)		2.8 < 1.0 < 0.0050	54 2 0,0000	29	5 97 < 0.0050	25 20000	< 0.00	< 0.50 < 1.0	< 1.0 < 0.0000	< 1.0 < 1.0	< 0.50 85 < 0.0050	< 1.0 < 1.0 < 0.0050	1.3 < 1.0 < 0.0050	15	13	28	24 24 < 0.0050	30	< 1.0 < 1.0	11	0.91 33 < 0.0050	32	< 0.50 73	< 0.50 120	_	< 0.50 340 < 0.0050	< 0.50 < 1.0 < 0.0000	0.6 11 < 0.0050	50	< 0.50 45 < 0.0050
Sulphide	The state of the s			< 0.050	< 0.050 4.9		42	46	120	100	110	1	230		96	41	< 0.050	< 0.050	< 0.050	< 0.050	41	< 0.050	< 0.050	< 0.050	< 0.050		160	120		< 0.050	10
Potessum Magnesium Sodium	200 (5)	+	52 160	39	8.1 19	6.6	7.5 16	100	55	110	52 210	15	120	76	62 140	46 110	27 65	16 19	16	150	40 62	15				_	74	71	0.54	43 150	19

Solder 2014 (1994)

1 The Biller Terror Collection Privile distriction and Collection (Injustice Polymer Internation (I) 151 Final Internation Collection Privile distriction and Collection (Injustice Polymer Internation (I) 151 Final Internation Collection (I) 151 Final

cycles by the wind will not be all of an index of an i

Surface Water Screening Round 1

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)	Lagoon	Pond3a	Pond3b	Pond4	Pond5	SW1	SW3	SW4	SW5	SW6	SW7	SW9	SW10	SW13	SW14
HEAVY METALS	uo1																
Arsenic (diss.fit)	50 (AA) (1) 25 (AA (2)		0.31	0.42	0.39	0.45	0.67	0.22	< 0.20	< 0.20	0.21	0.66	0.27	< 0.20	0.74	0.31	0.3
Boron (diss.fit)	1000 (5)		36	31	36	18	42	12	21	12	10	240	< 10	18	290	< 10	< 10
Barium (diss.filt)	700 (8)		14	12	14	5.1	8	12	30	17	13	66	11	16	73	9.6	10
Beryllum (diss.fit)	100,00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cadmium (diss.filt)	0.09 (AA) & 0.6 (MAC) (1) 0.6 (AA) CaCO ₂ 50 - <100 mg/l		< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Chromium (diss.filt)	50 (5)		6.5	7.2	7	6.5	6.2	< 0.50	< 0.50	1.0	5.1	< 0.50	6.2	< 0.50	< 0.50	6.5	6.8
Copper (diss.fit)	1 (AA) bioavailable (600 HOSE 1) (1) (600 NOSE 4) (2)	34.94	3.5	2.1	2	2	2.1	2.2	1.0	2.4	2.2	1.5	3.3	1.0	1.5	2	2.3
Iron (diss.)	1000 (AA) (1&2)		15	88	8.3	8.2	110	18	20	15	220	330	260	< 5.0	340	300	310
Mercury (diss.fit)	0.07 MAC (182)		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Marganese (diss.fit)	123 (AA) (*** *****************************	276.92	3.5	180	0.63	0.99	6.3	170	780	540	130	14	47	260	34	36	50
Molybdenum (diss.fit)	70 (8)		0.28	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel (diss.filt)	4 ^(see rate 5) (AA) (1), 8.6 (AA) (2), 34 (MAC) (18.2)	14.98	1.1	1.5	0.95	1.1	2.9	1.0	1.4	1.9	1.3	1.5	1.3	0.85	1.4	1.1	1.2
Lead (diss.fit)	1.2 (MAC) (18.2) (AA) (1), 1.3 (AA) (2), 14 (MAC) (18.2)	9.64	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Antimony (diss.fit)	5 (5) 10(5)		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Selenium (diss.filt)		37.15	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.52	0.51	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavallable 6.8 (AA) (2) +ABC (665 NO.55 2)	37.15	20	< 2.5				6.4	< 2.5	3.6	2.9	4.9	6.7	5.9	5.4		
Chromium III (diss.fit) Chromium VI (diss.fit)	4.7 (AA) (1) 95th%ile (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		< 20	< 20	< 20	< 20 < 0.10	< 20 < 0.10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20 < 0.10
Phonois Total	3.4 (AA) (1), 0.6 (AA) (2), 32 (95ff%8e) (2) 7.7 (182) 46 (95ff%8e) (182)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.2	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Speciated TPH	7.7 (182) 46 (95th/sale) (182)		< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030
Aliphatics	ugi																
FC C5-C6	15000 (7)	1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C6-C8	15000 (7)	+	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C8-C10	300 (7)	+	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
FC>C10-C12	300 (7)	+	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C12-C16	300 (7)	1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C16-C21			< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C21-C35		1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C35-C44			< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatics >C5-C35			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatics																	
EC C5-C7	10 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C7-C8	700 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	58	< 0.10	< 0.10	< 0.10
EC>C8-C10	300 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C10-C12	90 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C12-C16	90 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C16-C21	90 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C21-C35	90 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C35-C44			< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatics >EC5-EC35			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	58	< 5.0	< 5.0	< 5.0
otal Aliphatics & Aromatics >C5-3			< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	58	< 10	< 10	< 10
BTEX/MTBE/GRO	µg1																
MTBE	15 (5")		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Berzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)			< 1.0	< 1.0 < 1.0	< 1.0	< 1.0									< 1.0	< 1.0
Ethylberizene p/m-Xvlene	300 (8)		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0	< 1.0	< 1.0	< 1.0 < 1.0	< 1.0	< 1.0
n-Xviene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Polyaromatic Hydrocabons	μg1		< 1.0	C 1.0	C 1.0	< 1.0	C 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	C 1.0	C 120
Naphthalene (ap)	2 (AA) (1 &2) 130 (MAC 1&2)		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	1.1	< 0.010	< 0.010	< 0.010
Acenaphthylene (aq)	- 1 1 100 (100 101)	1	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Acenaphthene (aq)			< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Fluorene (aq)			< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Phenanthrene (aq)			< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Pyrene (aq)			< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Berizo(a)anthracene (aq)		_	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Chrysene (aq)			< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)	_	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo(k)fluoranthene (aq)	0.017 (MAC) (182)		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Indeno(1,2,3-cd)pyrene (aq)		_	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Dibenzo(a,h)anthracene (aq)		1	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo(g.h.i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	1	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PAH, Total Detected USEPA 16 NORGANICS			< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	1.1	< 0.20	< 0.20	< 0.20
Dissolved Organic Carbon	mg/l		26	34	34	25	38	21	24	28	23	21	22	19	32	23	23
Dissolved Organic Carbon pH	6-9		26 8.0	8.3	8.3	8.2	8	7.7	24 7.8	28 8.1	23 8.1	21 8.4	22 8.1	19 7.5	32 7.6	8.2	8.2
pH Alkalinity (Total)	0-9	+	110	120	120	8.2	130	96	7.8	8.1 82	8.1 86	8.4	8.1	92	110	8.2 74	8.2 74
Chloride	250 (5)	+	110	12U 28	120	87 25	130	24	110 26	82 23	24	82 26	23	92 24	110 26	74 24	32
Ammonia (Free)	0.3 (1) Types 3.5 and 7 (669 note 3)	+	0.065	< 0.050	< 0.050	< 0.050	0.14	< 0.050	< 0.050	0.053	< 0.050	< 0.050	< 0.050	< 0.050	0.061	< 0.050	< 0.050
Ammonium	VOC.) I Vocs 3.5 and /	+	1.4	0.030	0.050	0.050	3	1.2	0.050	1.0	0.49	0.050	0.050	1.4	3.2	0.050	0.030
Nitrite		+	0.020	0.28	0.095	0.036	0.07	0.057	0.038	0.079	0.096	0.027	0.060	0.071	0.020	0.043	0.048
Nitrate	50 (5)	+	2.1	5.7	6.9	1.5	3.3	24	22	11	14	5.4	8.4	22	5.7	7.6	7.5
Suinhate	250 (5)	+	25	12	13	15	22	20	25	15	17	13	14	21	12	12	12
Cyanide (Total) Low-Level	0.001 (AA), 0.005 (95%lie) (1&2)		0.013	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.014	0.0090	0.0070	0.0070	< 0.0050	0.0060	0.012	< 0.0050	< 0.0050	< 0.0050
Calcium		+	33	33	33	24	32	33	35	38	30	22	25	32	21	24	25
Potassium		1	5.4	5.9	6.1	5.6	7.7	3.5	3.4	3.8	2.6	19	23	3.1	19	2	2
Magnesium		1	3.0	6.3	6.3	5.9	8.3	4.6	5.4	6.8	5.3	4.1	4.7	4.7	4.0	4.5	4.5
Sodium	200 (5)		9.9	14	15	12	16	12	12	13	12	12	11	12	12	12	14

1. The Water Framework Disclore (Priority Studences and Classification (Registrates) (Bettern Indiand) 2015 Framework (Registrates) (Bettern Indiand) 2015 Framework (Registrates) (Bette

A WHO Driving Water Clusters

M.M.C. This grammer is the Technomeric Quality Student expressed as a maximum absention concernation MMA-CDG). Where the MMA-CDG is membered as "the Expression of the Part of the MMA-CDG is membered as "the Expression of the MMA-CDG is membered as "the Expression of the MMA-CDG is membered as "the MMA-CDG i

Sample Point / DUP1 BH404 N. dtt	DUP2 BH646	sar N	IEA BH646	% dff (NIEA)	DUPS	EH547A	sat 0	UP4 BHS14	% dff MEA BH614	% off (NIEA) DUPS BHIL	22 % dif	NIEA BH122	% dit (NIEA)	DUPS BH262	% diff	NIEA BH202	% dif (NIEA)	DUP 7 8H200		an DUP	8 814637 1	N dff NIEA BH537	% dif (NIEA)	DUP9 BH622	s att NE	EA 8H622	% dff (NEA)	DUP10 SW7	s atr	NIEA SW7 % diff (NIEA)
HEAVY METALS Aramic (das.fit) Boron (das.fit)	7.2 9.6 1700 1800	-25%	13.58	-	3.70 230.00	3.60	25 C	.44 0.21 27 26 33 33	110%	- 0.76 0.4 - 75 70 - 23 23	4 72S	0.97		0.94 1.5 450 460 100 110	-37%			3.1 4.5	- 4	2% 1.5 2% 120 25% 170	1.1	36% 7.48 20%	- :	0.85 1.4 84 96	39%			0.33 0.27	22%	0.29 -7%
Barum (das fit) Beryllum (das fit) Cadman (das fit)	130 140	75			12.00	< 5.0 < 1.0				23 23 - <1.0 <1.	0%			100 110	2%			82 110 <1.0 <1.0	- 3	25% 170	160	6%						0.33 0.27 <10 <10 11 11 <1.0 <1.0		
Cadmium (das filt) Chromium (das filt) Copper (das filt)	0.11 0.12 19 21		<0.05 0.29 <1.00	7186%	0.80	0.88	-9% < 0	0.11 < 0.11 0.50 0.56	. :	- <0.11 <0.1 0.7 0.0	9 1%	-0.05 -0.25	1160	< 0.11 0.21 < 0.50 < 0.50 0.67 1.2 1700 4100	i	0.46		27 3.9 5.3 5.1			0 < 0.11	- <0.05 7.22 - <1.00	<lod field&dup<="" td=""><td>0.14 < 0.11 < 0.50 < 0.50</td><td>1996</td><td>-</td><td></td><td>6.1 6.2 2.4 3.3 260 260</td><td></td><td><0.05 <0.25 1.17 183%</td></lod>	0.14 < 0.11 < 0.50 < 0.50	1996	-		6.1 6.2 2.4 3.3 260 260		<0.05 <0.25 1.17 183%
hon (das.fit) Mercury (das.fit) Manganese (das.fit)			56800.00	2%	730.00 < 0.05	610.00 < 0.05				2 69 680 50 c0.05 c0.0	1202%	1540.00	-97%	1700 4100 < 0.05 < 0.05	22%	21500.00	-81%	46000 63000 < 0.05 < 0.05 2500 2600	- 4	4% 200 - 200 4% 410 14% 0.40 5% 3.0 17% 0.5 3% < 0.5	1800	22500.00	-92%	< 0.05 < 0.05			- :	200 200 < 0.05 < 0.05	0%	300 -13%
Marganese (das fit)	1700 1800 0.66 2.2	-5% -70% -3% -15%	1970.00	-9% -	2.00 11.00	11.00	100% 0% 0%	00 92 44 0.38	226% ·	- 860 580 - <0.20 <0.2	20 40%	250.00 2.06 <0.25	-32% -32%	1700 4100 <0.05 <0.05 1600 1600 <0.20 <0.20 27 3.4 <0.50 1	0%	1880.00	-15%	2500 2500 0.51 0.41 10 2.4 2.4 2.9	ž	4% 4100 14% 0.40	0.59	3% 4390.00 29%	2%		170	:		< 0.05 < 0.05 58 47 < 0.20 < 0.20	23%	120 -61%
Lead (das.fit) Antimory (das.fit)	4 4.7 2.5 2.4	-15% 4%	<0.25		0.87	< 0.50 0.70	6% <	0.50 < 0.50 0.50 < 0.50		- <0.50 <0.5 <0.50 <0.5	50	×0.25				c0.25	**	2.4 2.9 0.58 0.6	7.7	17% < 0.5 3% < 0.5	0 < 0.50	: <0.25		<0.50 < 0.50 < 0.50 < 0.50				1.3 1.3 < 0.50 < 0.50 < 0.50 < 0.50		-0.05
Lead (disa. 80) Aeterony (disa. 18) Selevium (disa. 18) Zey (disa. 18) Lon (Total) Associates (Total) Associates (Total) Margarese (Total) Macconnec (III) Margarese (Total) M	2.4 < 0.50 130 170	-28%	1.73	9729%	3.70	8.80 < 2.5	-	2.50 2.0.50 2.5 9.1	th :	- 0.50 c05 - 15 14 - 720 140	7%	4.05		1.4 1.3 20 29	-31%	1.79	1520%	60 110		27% < 25	0 < 0.50 < 2.5	. 0.37 . 2.32		45 37 20 2100	30%			4.0 6.7	-40%	2 24 200%
Manganese (Total) 14000 14000 6% Manganese (III 1100 2200 52%	: :					- 1		00 92 39 51 90 40	226%	- 880 580 - 200 56 - 660 520	52% 257%		-:-		:					4100	2.5 0 1800 3 0 4000 430 0 3500	7%		8900 8400 1200 2500 7700 5800	6% 56%					
								20 < 20 20 < 20		- <20 40 - 670 <2 - <20 <2 - <20 <2	2/5									- 50	60 - 1700 - <20 0 < 0.10	17%		< 20 20 21 2000	.00%					
Chromium III (days filt)	< 20 21	-:-	:	- :	< 20 < 0.10	C 20 0.34		20 <20 0.10 < 0.10		<20 <2 <0.10 <0.1	10 -	- :	- : -	<20 <20 <0.10 <0.10	- 1		:	B < 20 B < 20 B < 0.10 B < 0.1	10	· < 201	<20 0 < 0.10				-	:	- :	<20 <20 <0.10 <0.10	-:	
Phenola Phenola Total TPH	1.3 12	85	-		< 0.030	< 0.030	- 31	000 < 0.000		- <0.000 <0.0				< 0.030 < 0.030	-	-		< 0.030 < 0.00	0	- <0.00	0.030			<0.030 <0.030				<0.030 <0.030	-	
TPH > C8 C10	1 1	- :	- :	- :	- 1		- :		1 1				- :				- 1	1 1				: :	- 1	< 0.10 < 0.10 < 0.10 < 0.10	-	-				
TPH SCR CES			-																					< 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10						
TPH xC21-C25		-:	:	- : -			-:		- :				-:-							: :		: :		<0.10 < 0.10 21 39 680 320 25 10 800 370	138% 112%	:	- :		-:	
Total TPH >C5-C40																								800 370	116%					
Alphalics EC 0502	< 0.10 < 0.10		: 7		< 0.10	< 0.10		0.10 < 0.10		< 0.10 < 0.1	10	1 : 1		< 0.10 < 0.10				< 0.10 < 0.10		< 0.1	0 < 0.10				- 1 -	. 7		< 0.10 < 0.10		
ED-CRC8 <0.10 <0.10 5C-CR-C10 <0.10 <0.10 EC-C10-C12 <0.10 <0.10	<0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10				< 0.10 < 0.10	< 0.10		0.10 < 0.10 0.10 < 0.10		< 0.10 < 0.1 < 0.10 < 0.1	10 -			<0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10				< 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10		· <0.1	0 < 0.10 0 < 0.10 0 < 0.10							<0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10		
EC/C12/C16 < 0.10 < 0.10 EC/C16/C21 < 0.10 < 0.10 EC/C12/C38 < 0.10 < 0.10 EC/C12/C38 < 0.10 < 0.10	<0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10	-	:	- :	< 0.10	< 0.10		0.10 < 0.10 0.10 < 0.10	1 1	- <0.10 <0.1	10 -		- : -	<0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	-	-	-:-	< 0.10 < 0.10		< 0.1	0 < 0.10 0 < 0.10 0 < 0.10 0 < 0.10	: :	- 1	1 1		:		<0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10	- :	
EC>C21-C35 < 0.10 < 0.10 EC>C35-C44 < 0.10 < 0.10 Total Alphatics >C5-C35 < 5.0 < 5.0	< 0.10 < 0.10 < 5.0 < 5.0				< 0.10 < 0.10 < 5.0	< 0.10		0.10 < 0.10 0.10 < 0.10 5.0 < 5.0		- <0.10 <0.1 - <0.10 <0.1 - <5.0 <5				< 0.10 < 0.10 < 5.0 < 5.0				< 0.10 < 0.10 < 0.10 < 0.10 < 5.0 < 5.0		< 0.1	0 < 0.10							<0.10 < 0.10 <5.0 < 5.0		
Total Alphanica 503-035	37 < 0.10				< 0.10	< 0.10		5.0 < 5.0 0.10 < 0.10 0.10 < 0.10		- <0.10 <0.1	10 -			<5.0 <5.0 <0.10 <0.10	-			< 0.10 < 0.10 < 0.10 < 0.10		< 0.1	0 <0.10							<0.10 < 0.10 < 0.10 < 0.10		. :
EC:C10-C12 1500 3700 49% EC:C10-C12 1500 3700 49%	< 0.10 < 0.10 190 < 0.10	1	-	- :	< 0.10 < 0.10 < 0.10	< 0.10	. 4	0.10 < 0.10	: :	- <0.10 <0.1 - <0.10 <0.1 - <0.10 <0.1	10 -		- :	<0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10	-:	- 1	-	< 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10		< 0.1	0 <0.10 0 <0.10 0 <0.10 0 <0.10			: :				< 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10	-	
EC>C12-C16 370 730 49% EC>C16-C21 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10 < 0.10	-	:	_ :	< 0.10	< 0.10			1 1	- <0.10 <0.1 - <0.10 <0.1 - <0.10 <0.1 - <0.10 <0.1	10 -	- 1	- :	< 0.10 < 0.10 < 0.10 < 0.10	-		- :	< 0.10 < 0.10 < 0.10 < 0.10		< 0.1	0 < 0.10	: :	- 1			:		< 0.10 < 0.10 < 0.10 < 0.10	-	
EGSCHECET 0.10 <0.10 EGSCHECET 0.10 <0.10 EGSCHECET 0.10 <0.10 EGSCHECET 0.10 <0.10 EGSCHECET 0.10 <0.10 Total Aromatics > EGSECT 2000 5700 49% STORY 0.10 STORY 0.10	< 0.10 < 0.10 310 < 5.0				< 0.10 < 0.10 < 0.10 < 5.0	< 0.10		0.10 < 0.10 0.10 < 0.10 0.10 < 0.10 5.0 < 5.0		- <0.10 <0.1 <5.0 <5.	0 -			<0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 5.0 < 5.0				<0.10 <0.50 <0.10 <0.50 <0.10 <0.50 <5.0 <5.0 <10 <10		< 0.1	0 <0.10 0 <0.10 0 <0.10 0 <5.0							<0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 5.0 < 5.0		
BTEX MTBE GRO		_	-		< 10	< 10		10 < 10	-	- <10 <1				< 10 < 10	-	-	-	<10 <10	_	< 10	< 10	-	-	-			_	< 10 < 10	-	
	< 1.0 < 1.0 21 61	16%	:		< 1.0 < 1.0	< 1.0 < 1.0		1.0 < 1.0 1.0 < 1.0	- <1.0 - <1.0	· <1.0 <1.	0 -			<1.0 <1.0 <1.0 <1.0	-	<1.0		<1.0 <1.0 <1.0 <1.0		< 1.0	<1.0	: :		1 1	:	<1.0 <1.0	- :	<1.0 <1.0 <1.0 <1.0	- :	<1.0
Berusma 1400 1700 -18°V- Tolanna 270 446 -18°V- Ethylberusma 220 300 -11°V- pin-Xylanna 74 69 7°V- o-Xylanna 49 45 9°V- Sam of cherched Xylanna 123 114 8°V- Sam of detected BTLX 2213 2014 -15°V-	62 60 24 21	3% 14%			<1.0 <1.0 <1.0 <1.0	< 1.0 < 1.0 < 1.0		1.0 < 1.0 1.0 < 1.0 1.0 < 1.0 1.0 < 1.0	: 210	- c10 c1 - c10 c1 - c10 c1	0 -			<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0				<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		< 1.0	<1.0 <1.0 <1.0 <1.0							<10 <10 <10 <10 <10 <10 <10 <10		
		•	-	-	-				- 30			·	-			<1.0					-		-			d0	-	-	-	c30 ·
PCB concener 81	1 1	-	:		< 0.010 < 0.010 < 0.010	< 0.010	-	< 0.010		- <00	10	- :			-						- 1		- :		-				-	-
PCB congener 114	1 1	-	-:-		< 0.010	< 0.010	-	<0.010 - <0.010 - <0.010		. <0.0	110					-				: :	-					-				
PCB congener 114		-			< 0.010	< 0.010	-	< 0.010	1	- <0.0	10 -		- : -							1 1										
PCB concerner 157	1 1	-	:		< 0.010 < 0.010 < 0.010		-:-	<0.010 <0.010	: :	- <00	10	- :	-			- :	- :			: :	- :		- :	: :			- :			
PGB congeneration PGB congeneration Total PGBs (12 Congeneration Polysromatic Hydrocabons					< 0.010			< 0.010		. <0.0	110																			
Polyaromatic Hydrocabona																														
Nachthylene (ac)	<0.010 < 0.010 < 0.010 < 0.010	-:-	0.776 4 0.02 4	<lods &="" (field="" dup)<br=""><lods &="" (field="" dup)<br=""><lods &="" (field="" dup)<="" td=""><td>0.58 < 0.010</td><td>0.49 < 0.010</td><td>18% <1</td><td>010 < 0.010</td><td>1 1</td><td>- <0.010 <0.0 - <0.010 <0.0</td><td>10 :</td><td><0.008 <0.003</td><td></td><td>< 0.010 < 0.010 < 0.010 < 0.010</td><td>-:-</td><td>0.656 kL 0.152 kL</td><td>Ds (Field & Dup) Ds (Field & Dup)</td><td>0.32 0.27 < 0.010 < 0.011</td><td>0 1</td><td>19% < 0.0°</td><td>10 < 0.010 10 < 0.010</td><td>- 0.043 - 0.006</td><td><lod field&dup<br=""><lod field&dup<="" td=""><td><0.010 <0.010 <0.010 <0.010</td><td>-</td><td>0.034 0.013</td><td><lod field&dup<br=""><lod field&dup<="" td=""><td><0.010 <0.010 <0.010 <0.010</td><td></td><td>c0.005 <lod fieldsdup<br="">0.001 <lod fieldsdup<="" td=""></lod></lod></td></lod></lod></td></lod></lod></td></lods></lods></lods>	0.58 < 0.010	0.49 < 0.010	18% <1	010 < 0.010	1 1	- <0.010 <0.0 - <0.010 <0.0	10 :	<0.008 <0.003		< 0.010 < 0.010 < 0.010 < 0.010	-:-	0.656 kL 0.152 kL	Ds (Field & Dup) Ds (Field & Dup)	0.32 0.27 < 0.010 < 0.011	0 1	19% < 0.0°	10 < 0.010 10 < 0.010	- 0.043 - 0.006	<lod field&dup<br=""><lod field&dup<="" td=""><td><0.010 <0.010 <0.010 <0.010</td><td>-</td><td>0.034 0.013</td><td><lod field&dup<br=""><lod field&dup<="" td=""><td><0.010 <0.010 <0.010 <0.010</td><td></td><td>c0.005 <lod fieldsdup<br="">0.001 <lod fieldsdup<="" td=""></lod></lod></td></lod></lod></td></lod></lod>	<0.010 <0.010 <0.010 <0.010	-	0.034 0.013	<lod field&dup<br=""><lod field&dup<="" td=""><td><0.010 <0.010 <0.010 <0.010</td><td></td><td>c0.005 <lod fieldsdup<br="">0.001 <lod fieldsdup<="" td=""></lod></lod></td></lod></lod>	<0.010 <0.010 <0.010 <0.010		c0.005 <lod fieldsdup<br="">0.001 <lod fieldsdup<="" td=""></lod></lod>
Acenaphthene (aq) Placerne (aq) Physical (ac)	<0.010 < 0.010 < 0.010 < 0.010		0.17 0.084	<lods &="" (field="" dup)<br=""><lods &="" (field="" dup)<br=""><lods &="" (field="" dup)<="" td=""><td>< 0.010</td><td>< 0.010</td><td></td><td>010 < 0.010 010 < 0.010</td><td></td><td>- <0.010 <0.0 - <0.010 <0.0</td><td>10</td><td>0.004 <0.003 0.016</td><td></td><td>< 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010</td><td></td><td>0.061 45</td><td>Ds (Field & Dup) Ds (Field & Dup) Ds (Field & Dup)</td><td>< 0.010 < 0.011</td><td>0</td><td>< 0.01</td><td>10 < 0.010 10 < 0.010</td><td>- 0.068 - 0.07 - 0.043</td><td><lod field&dup<br=""><lod field&dup<br=""><lod field&dup<="" td=""><td></td><td></td><td>0.055</td><td><lod field&dup<br=""><lod field&dup<br=""><lod field&dup<="" td=""><td>< 0.010 < 0.010</td><td></td><td>0.003 < t.OD FieldsDup 0.002 < t.OD FieldsDup 0.004 < t.OD FieldsDup 0.001 < t.OD FieldsDup</td></lod></lod></lod></td></lod></lod></lod></td></lods></lods></lods>	< 0.010	< 0.010		010 < 0.010 010 < 0.010		- <0.010 <0.0 - <0.010 <0.0	10	0.004 <0.003 0.016		< 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010		0.061 45	Ds (Field & Dup) Ds (Field & Dup) Ds (Field & Dup)	< 0.010 < 0.011	0	< 0.01	10 < 0.010 10 < 0.010	- 0.068 - 0.07 - 0.043	<lod field&dup<br=""><lod field&dup<br=""><lod field&dup<="" td=""><td></td><td></td><td>0.055</td><td><lod field&dup<br=""><lod field&dup<br=""><lod field&dup<="" td=""><td>< 0.010 < 0.010</td><td></td><td>0.003 < t.OD FieldsDup 0.002 < t.OD FieldsDup 0.004 < t.OD FieldsDup 0.001 < t.OD FieldsDup</td></lod></lod></lod></td></lod></lod></lod>			0.055	<lod field&dup<br=""><lod field&dup<br=""><lod field&dup<="" td=""><td>< 0.010 < 0.010</td><td></td><td>0.003 < t.OD FieldsDup 0.002 < t.OD FieldsDup 0.004 < t.OD FieldsDup 0.001 < t.OD FieldsDup</td></lod></lod></lod>	< 0.010 < 0.010		0.003 < t.OD FieldsDup 0.002 < t.OD FieldsDup 0.004 < t.OD FieldsDup 0.001 < t.OD FieldsDup
Phenarthrene (aq)	< 0.010 < 0.010 < 0.010 < 0.010		0.021	<lods &="" (field="" dup)<="" p=""> <lods &="" (field="" dup)<="" p=""> <lods &="" (field="" dup)<="" p=""> <lods &="" (field="" dup)<="" p=""> <lods &="" (field="" dup)<="" p=""> <lods &="" (field="" dup)<="" p=""> <lods &="" (field="" dup)<="" p=""> <lods &="" (field="" dup)<="" p=""> <lods &="" (field="" dup)<="" p=""></lods></lods></lods></lods></lods></lods></lods></lods></lods>	< 0.010	< 0.010	. <1	010 < 0.010		< 0.010 < 0.0	10		cLoDs (Field & Dup)	< 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010	-:	0.026 <l 0.034 <l< td=""><td>Ds (Field & Dup)</td><td>< 0.010 < 0.011 < 0.010 < 0.011</td><td>0</td><td>- < 0.01</td><td>0 < 0.010</td><td>- 0.014</td><td><lod field&dup<br=""><lod field&dup<="" td=""><td><0.010 <0.010 <0.010 <0.010</td><td>1</td><td>0.017</td><td></td><td></td><td></td><td>0.001 <lod fieldsdup<br=""><0.002 <lod fieldsdup<="" td=""></lod></lod></td></lod></lod></td></l<></l 	Ds (Field & Dup)	< 0.010 < 0.011 < 0.010 < 0.011	0	- < 0.01	0 < 0.010	- 0.014	<lod field&dup<br=""><lod field&dup<="" td=""><td><0.010 <0.010 <0.010 <0.010</td><td>1</td><td>0.017</td><td></td><td></td><td></td><td>0.001 <lod fieldsdup<br=""><0.002 <lod fieldsdup<="" td=""></lod></lod></td></lod></lod>	<0.010 <0.010 <0.010 <0.010	1	0.017				0.001 <lod fieldsdup<br=""><0.002 <lod fieldsdup<="" td=""></lod></lod>
Plucrathene (aq) Prese (aq) Benzo(assifivacene (aq) Chrysene (aq)	<0.010 < 0.010 <0.010 < 0.010 <0.010 < 0.010 <0.010 < 0.010 <0.010 < 0.010 <0.010 < 0.010 <0.010 < 0.010 <0.010 < 0.010 <0.010 < 0.010 <0.010 < 0.010 <0.010 < 0.010 <0.010 < 0.010	-	0.081 4 0.152 4 0.107 4	<lods &="" (field="" dup)<br=""><lods &="" (field="" dup)<br=""><lods &="" (field="" dup)<="" td=""><td>< 0.010 < 0.010 < 0.010</td><td>< 0.010 < 0.010 < 0.010</td><td>- 4</td><td>010 <0.010 010 <0.010</td><td></td><td>- <0.010 <0.0 - <0.010 <0.0 - <0.010 <0.0</td><td>10 :</td><td>0.007 <0.001 0.001</td><td><lods &="" (field="" dup)<="" td=""><td></td><td></td><td>0.024 cL 0.004 cL</td><td>Os (Field & Dup) Os (Field & Dup) Os (Field & Dup)</td><td>< 0.010 < 0.011 < 0.010 < 0.011 < 0.010 < 0.011</td><td>0</td><td>- <0.0°</td><td>10 < 0.010 10 < 0.010</td><td>- 0.008 - 0.001 - 0.002</td><td><lod field&dup<br=""><lod field&dup<br=""><lod field&dup<="" td=""><td><0.010 <0.010 <0.010 <0.010</td><td></td><td>0.022 0.003 0.006</td><td><lod field&dup<br=""><lod field&dup<br=""><lod field&dup<="" td=""><td><0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010</td><td></td><td><0.002 < LOD FieldsDup 0.001 < LOD FieldsDup <0.001 < LOD FieldsDup <0.001 < LOD FieldsDup < LOD FieldsDup</td></lod></lod></lod></td></lod></lod></lod></td></lods></td></lods></lods></lods>	< 0.010 < 0.010 < 0.010	< 0.010 < 0.010 < 0.010	- 4	010 <0.010 010 <0.010		- <0.010 <0.0 - <0.010 <0.0 - <0.010 <0.0	10 :	0.007 <0.001 0.001	<lods &="" (field="" dup)<="" td=""><td></td><td></td><td>0.024 cL 0.004 cL</td><td>Os (Field & Dup) Os (Field & Dup) Os (Field & Dup)</td><td>< 0.010 < 0.011 < 0.010 < 0.011 < 0.010 < 0.011</td><td>0</td><td>- <0.0°</td><td>10 < 0.010 10 < 0.010</td><td>- 0.008 - 0.001 - 0.002</td><td><lod field&dup<br=""><lod field&dup<br=""><lod field&dup<="" td=""><td><0.010 <0.010 <0.010 <0.010</td><td></td><td>0.022 0.003 0.006</td><td><lod field&dup<br=""><lod field&dup<br=""><lod field&dup<="" td=""><td><0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010</td><td></td><td><0.002 < LOD FieldsDup 0.001 < LOD FieldsDup <0.001 < LOD FieldsDup <0.001 < LOD FieldsDup < LOD FieldsDup</td></lod></lod></lod></td></lod></lod></lod></td></lods>			0.024 cL 0.004 cL	Os (Field & Dup) Os (Field & Dup) Os (Field & Dup)	< 0.010 < 0.011 < 0.010 < 0.011 < 0.010 < 0.011	0	- <0.0°	10 < 0.010 10 < 0.010	- 0.008 - 0.001 - 0.002	<lod field&dup<br=""><lod field&dup<br=""><lod field&dup<="" td=""><td><0.010 <0.010 <0.010 <0.010</td><td></td><td>0.022 0.003 0.006</td><td><lod field&dup<br=""><lod field&dup<br=""><lod field&dup<="" td=""><td><0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010</td><td></td><td><0.002 < LOD FieldsDup 0.001 < LOD FieldsDup <0.001 < LOD FieldsDup <0.001 < LOD FieldsDup < LOD FieldsDup</td></lod></lod></lod></td></lod></lod></lod>	<0.010 <0.010 <0.010 <0.010		0.022 0.003 0.006	<lod field&dup<br=""><lod field&dup<br=""><lod field&dup<="" td=""><td><0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010</td><td></td><td><0.002 < LOD FieldsDup 0.001 < LOD FieldsDup <0.001 < LOD FieldsDup <0.001 < LOD FieldsDup < LOD FieldsDup</td></lod></lod></lod>	<0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010		<0.002 < LOD FieldsDup 0.001 < LOD FieldsDup <0.001 < LOD FieldsDup <0.001 < LOD FieldsDup < LOD FieldsDup
Benzolkifkoranthene (so)	<0.010 < 0.010 < 0.010 < 0.010	:		<lods &="" (field="" duo)<br=""><lods &="" (field="" duo)<br=""><lods &="" (field="" duo)<="" td=""><td></td><td>< 0.010</td><td></td><td>010 < 0.010 010 < 0.010</td><td>: :</td><td>- <0.010 <0.0 - <0.010 <0.0 - <0.010 <0.0 - <0.010 <0.0</td><td>110</td><td>0.001 <0.001 <0.002</td><td><lods &="" (field="" dup)<br=""><lods &="" (field="" dup)<="" td=""><td></td><td>-</td><td>0.005 eL 0.003 eL 0.001 eL 0.040 eL</td><td>Os (Field & Dup) Os (Field & Dup) Os (Field & Dup)</td><td>< 0.010 < 0.010 < 0.010 < 0.010</td><td>0</td><td>< 0.0</td><td>10 < 0.010 10 < 0.010 10 < 0.010 10 < 0.010</td><td></td><td><lod field&dup<br=""><lod field&dup<br=""><lod field&dup<="" td=""><td><0.010 <0.010</td><td></td><td>0.009</td><td>cLOD Field&Dup cLOD Field&Dup cLOD Field&Dup</td><td><0.010 <0.010 <0.010 <0.010</td><td></td><td></td></lod></lod></lod></td></lods></lods></td></lods></lods></lods>		< 0.010		010 < 0.010 010 < 0.010	: :	- <0.010 <0.0 - <0.010 <0.0 - <0.010 <0.0 - <0.010 <0.0	110	0.001 <0.001 <0.002	<lods &="" (field="" dup)<br=""><lods &="" (field="" dup)<="" td=""><td></td><td>-</td><td>0.005 eL 0.003 eL 0.001 eL 0.040 eL</td><td>Os (Field & Dup) Os (Field & Dup) Os (Field & Dup)</td><td>< 0.010 < 0.010 < 0.010 < 0.010</td><td>0</td><td>< 0.0</td><td>10 < 0.010 10 < 0.010 10 < 0.010 10 < 0.010</td><td></td><td><lod field&dup<br=""><lod field&dup<br=""><lod field&dup<="" td=""><td><0.010 <0.010</td><td></td><td>0.009</td><td>cLOD Field&Dup cLOD Field&Dup cLOD Field&Dup</td><td><0.010 <0.010 <0.010 <0.010</td><td></td><td></td></lod></lod></lod></td></lods></lods>		-	0.005 eL 0.003 eL 0.001 eL 0.040 eL	Os (Field & Dup) Os (Field & Dup) Os (Field & Dup)	< 0.010 < 0.010 < 0.010 < 0.010	0	< 0.0	10 < 0.010 10 < 0.010 10 < 0.010 10 < 0.010		<lod field&dup<br=""><lod field&dup<br=""><lod field&dup<="" td=""><td><0.010 <0.010</td><td></td><td>0.009</td><td>cLOD Field&Dup cLOD Field&Dup cLOD Field&Dup</td><td><0.010 <0.010 <0.010 <0.010</td><td></td><td></td></lod></lod></lod>	<0.010 <0.010		0.009	cLOD Field&Dup cLOD Field&Dup cLOD Field&Dup	<0.010 <0.010 <0.010 <0.010		
Berup(a)pyrene (aq)	<0.010 < 0.010 < 0.010 < 0.010	-	0.013	<lods &="" (field="" dup)<="" td=""><td>< 0.010</td><td>< 0.010</td><td>- 4</td><td>010 < 0.010 010 < 0.010</td><td></td><td>- <0.010 <0.0 - <0.010 <0.0</td><td>10 -</td><td><0.002 <0.001 <0.004</td><td></td><td>< 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010</td><td></td><td>0.040 <l <0.001 <0.004</l </td><td>ius (riela & Dup)</td><td>< 0.010 < 0.011 < 0.010 < 0.011</td><td>0</td><td>- <0.0°</td><td>10 < 0.010 10 < 0.010</td><td>- 0.013 - 0.002 - <0.004</td><td><lod field&dup<br=""><lod field&dup<br=""><lod field&dup<="" td=""><td></td><td></td><td><0.001 <0.004</td><td><lod field&dup<br=""><lod field&dup<br=""><lod field&dup<="" td=""><td><0.010 <0.010 <0.010 <0.010</td><td></td><td>c0.001 <lod fieldsdup<br="">0.001 <lod fieldsdup<br=""><0.002 <lod fieldsdup<br=""><0.004 <lod fieldsdup<="" p=""></lod></lod></lod></lod></td></lod></lod></lod></td></lod></lod></lod></td></lods>	< 0.010	< 0.010	- 4	010 < 0.010 010 < 0.010		- <0.010 <0.0 - <0.010 <0.0	10 -	<0.002 <0.001 <0.004		< 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010		0.040 <l <0.001 <0.004</l 	ius (riela & Dup)	< 0.010 < 0.011 < 0.010 < 0.011	0	- <0.0°	10 < 0.010 10 < 0.010	- 0.013 - 0.002 - <0.004	<lod field&dup<br=""><lod field&dup<br=""><lod field&dup<="" td=""><td></td><td></td><td><0.001 <0.004</td><td><lod field&dup<br=""><lod field&dup<br=""><lod field&dup<="" td=""><td><0.010 <0.010 <0.010 <0.010</td><td></td><td>c0.001 <lod fieldsdup<br="">0.001 <lod fieldsdup<br=""><0.002 <lod fieldsdup<br=""><0.004 <lod fieldsdup<="" p=""></lod></lod></lod></lod></td></lod></lod></lod></td></lod></lod></lod>			<0.001 <0.004	<lod field&dup<br=""><lod field&dup<br=""><lod field&dup<="" td=""><td><0.010 <0.010 <0.010 <0.010</td><td></td><td>c0.001 <lod fieldsdup<br="">0.001 <lod fieldsdup<br=""><0.002 <lod fieldsdup<br=""><0.004 <lod fieldsdup<="" p=""></lod></lod></lod></lod></td></lod></lod></lod>	<0.010 <0.010 <0.010 <0.010		c0.001 <lod fieldsdup<br="">0.001 <lod fieldsdup<br=""><0.002 <lod fieldsdup<br=""><0.004 <lod fieldsdup<="" p=""></lod></lod></lod></lod>
Diberson hisrohyacene (sp)	< 0.010 < 0.010 < 0.20 < 0.20	- :	0.032	<lods &="" (field="" dup)<br=""><lods &="" (field="" dup)<br=""><lods &="" (field="" dup)<="" td=""><td>< 0.010 0.58</td><td>< 0.010 0.49</td><td></td><td>0.010 < 0.010</td><td></td><td>- <0.010 <0.0 - <0.20 <0.2</td><td></td><td><0.002</td><td></td><td>< 0.010 < 0.010 < 0.20 < 0.20</td><td></td><td>0.003 KL</td><td>Ds (Field & Dup)</td><td>0.010 < 0.011 0.32 0.27</td><td>0</td><td></td><td>0 < 0.20</td><td>0.003</td><td><lod field&dup<="" td=""><td>< 0.010 < 0.010 < 0.20 < 0.20</td><td>1</td><td>0.006</td><td><lod field&dup<="" td=""><td>< 0.010 < 0.010 < 0.20 < 0.20</td><td>- 1</td><td><0.003 <lod fieldsdup<="" td=""></lod></td></lod></td></lod></td></lods></lods></lods>	< 0.010 0.58	< 0.010 0.49		0.010 < 0.010		- <0.010 <0.0 - <0.20 <0.2		<0.002		< 0.010 < 0.010 < 0.20 < 0.20		0.003 KL	Ds (Field & Dup)	0.010 < 0.011 0.32 0.27	0		0 < 0.20	0.003	<lod field&dup<="" td=""><td>< 0.010 < 0.010 < 0.20 < 0.20</td><td>1</td><td>0.006</td><td><lod field&dup<="" td=""><td>< 0.010 < 0.010 < 0.20 < 0.20</td><td>- 1</td><td><0.003 <lod fieldsdup<="" td=""></lod></td></lod></td></lod>	< 0.010 < 0.010 < 0.20 < 0.20	1	0.006	<lod field&dup<="" td=""><td>< 0.010 < 0.010 < 0.20 < 0.20</td><td>- 1</td><td><0.003 <lod fieldsdup<="" td=""></lod></td></lod>	< 0.010 < 0.010 < 0.20 < 0.20	- 1	<0.003 <lod fieldsdup<="" td=""></lod>
INORCANICS	41 37	11%			180	210	-16%	1.5 3.8 36 94	8	- 4.5 11 - 70 82 - 4.5 3.5 - 0.050 0.00 - 7.1 6.6 - 49 100	-59% -15%			160 160	0%			120 26	- 2	62% 87	78 98 78 1.3	12%		130 130	0%			23 22	5%	
Total Organic Carbon 240 250 4% Disastreed Methane < 0.030 < 0.050		-	-		-			1.4 3.4	0% -	- 4.5 3.5 <0.050 <0.0	29%		- :	72 77						1.5	78 1.3	10%	-	120 110 0.11 0.41	9% -73%	==			-	-:
Dissolved CO2 S00 170 1945.	3000 2900	3%	- 1	- : -	7.4	7.5 940	-1%	7.5 7.6 28 22 00 390	27% :	- 7.1 6.8 - 49 110 - 290 340	4% -55% -15%	6.5	5%	620 570	9%			980 930		US (7.9	325		7.9 7.9 15 13 530 530	15% 0%	:	- : -	8.1 8.1 78 80	3%	
	450 440 1.4 1.3	3% 2% 8%	-:	- :	880 25 0.13	41 0.29	-6%	15 16 1050 < 0.050	-6%	- 290 340 - 24 29 - <0.050 <0.0	17%	-:	- :	620 570 44 43 0.19 0.14	2% 36%	-:	:	980 930 47 44 0.12 0.1	2	7% 37 10% 0.22	410 34 0.24	45	- :		:	:	:	78 80 22 23 < 0.050 < 0.050	4%	-: :
Ammonium	500 490	2%			0.22 < 0.50	9.17 9.6	20%	.65 1.6	-59%	8.3 15	45%			30 28	7%			89 73	2	2% 2.7	6.6	47%		7.8 9.3 0.068 0.12	16%			0.31 0.38	-18%	
Norte < 0.020 < 0.020 - Norte < 0.50 < 0.50 - 1	< 0.020 < 0.020 < 0.50 < 0.50				11 < 0.0050	11 < 0.0050	0% <0	0.020 < 0.020 0.50 0.91 31 33 0050 < 0.005		- < 0.000 0.04 - 3.5 5	30%	100.00		< 0.020 < 0.020 < 0.50 < 0.50		1770		< 0.020 < 0.020 0.5 0.92 9.3 7.6 < 0.0050 < 0.005	-4		0 < 0.020			0.068 0.12 < 0.50 < 0.50	-43% 	==		0.056 0.060 8.4 8.4 13 14 0.0060 0.0060	-7% 0%	11.70 20%
Nitrate < 0.50 < 0.50 -	< 0.0050 < 0.0050	-	Ja. 40							- 3.5 5 - 110 97 - < 0.0050 < 0.00	150 -	100.00	**	< 0.0050 < 0.0050	115	17.20		< 0.0050 < 0.005	10	< 0.0	45 0 0.011 50 < 0.050	7.0 38.0	12%	<0.50 < 0.50 20 17 < 0.0050 < 0.0050 < 0.050 < 0.050				0.0000 0.0000	6%	
Calcium	<0.050 < 0.050 69 < 1.0 < 0.0050 < 0.0050 	45	265.00		87 0.85	55	-1%	 12 62 14 13	95	8.5 7.8 6.6 6.6	- 25			30 29 16 15	25	95.77		37 36		3% 10	5.1	102.51 23% 13.27	-32%		-			26 25 22 23 47 47	4% 4%	29.84 -16% 2.66 -13%
Sodum	310 310	0%	349.00	-11%	240	240	0%	10 9.3	8%	- 13 12	8%	14.26	-16%	29 29	0%	31.08		51 49		4% 28	25	12% 32.76	-24%		- 1	- 1		11 11	0%	12.49 -12%

Mobuoy Road Waste Site Remediation Groundwater (VOC) Screening Round 1 - CIW

	TSV	BH208	BH209	BH303	BH405	BH406	BH615D	BH615S	BH616	BH617	BH645	BH646	BH647A	BH649B
VOC's	ug/l	11/01/2022	11/01/2022	11/01/2022	12/01/2022	12/01/2022	15/02/2022	15/02/2022	17/01/2022	17/01/2022	17/01/2022	17/01/2022	15/02/2022	15/02/2022
Dichlorodifluoromethane	ugi	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chloromethane		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Vinvl chloride	0.5 (5)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Bromomethane	0.0 (0)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroethane		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1.1-Dichloroethene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
trans-1.2-Dichloroethene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1.1-Dichloroethane		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
cis-1.2-Dichloroethene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Bromochloromethane		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichloromethane		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1.1.1-Trichloroethane	100 (4)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Tetrachloromethane		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,1-Dichloropropene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)	< 0.10	< 0.10	5400	1400	< 0.10	< 0.10	< 0.10	<0.10	<0.10	6.4	<0.10	< 0.10	< 0.10
1.2-Dichloroethane	10 (AA)(1&2)	< 0.20	< 0.20	22	80	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Trichloroethene	10 (5)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1.2-Dichloropropane		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibromomethane		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Bromodichloromethane		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1.3-Dichloropropene		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)	< 0.10	< 0.10	< 0.10	140	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	33	61	< 0.10	< 0.10
trans-1,3-Dichloropropene		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	300 (2), 400(1)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tetrachloroethene	10 (1 &2)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,3-Dichloropropane		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Dibromochloromethane		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene		< 0.10	< 0.10	5.9	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,1,1,2-Tetrachloroethane		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Ethylbenzene	300 (7)	< 0.10	< 0.10	22	190	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	28	29	< 0.10	< 0.10
m,p-Xylene		< 0.10	< 0.10	34	30	< 1.0	< 0.10	< 0.10	< 0.10	<0.10	25	60	< 0.10	< 0.10
o-Xylene		< 0.10	< 0.10	< 0.10	14	< 1.0	< 0.10	< 0.10	<0.10	<0.10	10	21	< 0.10	< 0.10
Styrene	20 (5)	< 0.10	< 0.10	< 0.10	39	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Tribromomethane		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Bromobenzene	<u> </u>	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,2,3-Trichloropropane		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
N-Propylbenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2-Chlorotoluene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,3,5-Trimethylbenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.3	< 0.10	< 0.10	< 0.10
4-Chlorotoluene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
tert-Butylbenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,2,4-Trimethylbenzene		< 0.10	< 0.10	< 0.10	6.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	11	13	< 0.10	< 0.10
sec-Butylbenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,3-Dichlorobenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
4-iso-Propyltoluene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,4-Dichlorobenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
n-Butylbenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,2-Dichlorobenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,2-Dibromo-3-chloropropane		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2,4-Trichlorobenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachlorobutadiene	0.6 (MAC) (1,2)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,2,3-Trichlorobenzene	0.4 (1,2)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Methyl tertiary butyl ether (MTBE)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	27	< 1.0	< 0.10	< 0.10

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Mobuoy Road Waste Site Remediation Groundwater (VOC) Screening Round 1 – CS&G

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Company Comp		TSV	BH101	BH102	BH108	BH111	BH119	BH201	BH216	BH217	BH618D	BH619D	BH619S	BH620	BH623D	BH626	BH627	BH628	BH629	BH630	BH631	BH653	BH654S
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Proceedings 1.50			< 0.10																		< 0.10		
11 15 15 15 15 15 15 15	Bromochloromethane			< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50									
11.1 15.0	Trichinromethane		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Tensformer		100 (4)	< 0.10									< 0.10									< 0.10		
Sprank Sp. Mark Str. (14) Mark 1976 C. 10 C. 1	Tetrachloromethane			< 0.10	< 0.10	< 0.10			< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10									
1- Principal 1- 1- 1- 1- 1- 1- 1- 1	1,1-Dichloropropene		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
1- Principal 1- 1- 1- 1- 1- 1- 1- 1	Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	12	< 0.10	< 0.10	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10	63	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	<0.10
12 13 14 15 15 15 15 15 15 15	1,2-Dichloroethane	10 (AA)(1&2)	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Description		10 (5)	< 0.10			< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Descriptions Color	1,2-Dichloropropane				< 0.10																		
GALLOWING MANUAL PRINCIPLE 410 4																							
Figure THAM Perhaps Col. Co						< 0.50			< 0.50			< 0.50		< 0.50	< 0.50			< 0.50	< 0.50		< 0.50	< 0.50	
Personal Conference Personal Conference	cis-1,3-Dichloropropene			< 1.0	< 0.50			< 1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
13 15 15 15 15 15 15 15		74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)																					
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124 Tempheres																							
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Proceedings Proceedings Processing P	1,4-Dichlorobenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1.2.Dismo-detempropages	n-Butylbenzene		< 0.10	< 0.10	< 0.10									< 0.10							< 0.10		
24 Transcription			< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
24 Transcription	1,2-Dibromo-3-chioropropane		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2,3 Trichioroberezene 0,4(1,2) < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,20 < 0,				< 0.10																			
	Hexachlorobutadiene	0.6 (MAC) (1,2)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Methyltodiary bulyl other (MTBE) < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.	1,2,3-Trichlorobenzene	0.4 (1,2)			< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
	Methyl tertiary butyl other (MTBE)			< 0.10	< 0.10									< 0.10									

Marylandary bad after MTRES. I The Water Famework October Project Statement and Casadination Regulations (Northern Instead 2015 Feathwater 2 The Water Famework Dectain (Project) Statement and Casadination (Regulations (Northern Instead 2015 Feathwater 2 The Water Famework Dectain (Project) Statement (Project) Statement (Project) Statement (Project) Statement (Project) Statement (Project) Statement (Project) Statement (Project) Statement (Project and Water) Devotors 2019 Statement (Project) Statement (Project and Water) Devotors 2019 Statement (Project Annual Project and Water) Devotors 2019 Statement (Project Annual Project Annu

Mobuov Road Waste Site Remediation Groundwater (SVOC) Screening Round 1 – CIW

	TSV	BH208	BH209	BH303	BH405	BH406	BH615D	BH615S	BH616	BH617	BH645	BH646	BH647A	BH649B	BH653	BH654S	BHW1
SVOC's	ug/l																
N-Nitrosodimethylamine		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
Phenol 2-Chlorophenol	7.7 (1&2) 46 (95th%ile) (1&2)	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
Bis-(2-Chloroethyl)Ether		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
1,3-Dichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
1,4-Dichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
1,2-Dichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
2-Methylphenol (o-Cresol) Bis(2-Chloroisopropyl)Ether		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
Hexachloroethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
N-Nitrosodi-n-propylamine		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
4-Methylphenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
Nitrobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
Isophorone 2-Nitrophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
2-Nitrophenol 2,4-Dimethylphenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
Bis(2-Chloroethoxy)Methane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
2,4-Dichlorophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	T -
1,2,4-Trichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
Naphthalene	2.4 (1) 1.2 (2)	< 0.050	< 0.050	< 0.050	340	5.1	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.39	
4-Chloroaniline Hexachlorobutadiene		< 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
4-Chloro-3-Methylohenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
2-Methylnaphthalene		< 0.050	< 0.050	< 0.050	10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
Hexachlorocyclopentadiene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
2,4,6-Trichlorophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
2,4,5-Trichlorophenol	100	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
2-Chloronaphthalene 2-Nitroaniline	160	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050	< 0.050 < 0.050	< 0.050	1
Acenaphthylene		< 0.050	< 0.050	< 0.050	43	0.61	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
Dimethylphthalate		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
2,6-Dinitrotoluene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
Acenaphthene		< 0.050	< 0.050	< 0.050	17	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.94	-
3-Nitroaniline Dibenzofuran		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
4-Chlorophenylphenylether		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	- :
2,4-Dinitrotoluene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
Fluorene		< 0.050	< 0.050	< 0.050	1.1	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
Diethyl Phthalate		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
4-Nitroaniline 2-Methyl-4.6-Dinitrophenol		< 0.050 < 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
2-Metriyi-4,6-Dirittoprierioi Azohenzene		< 0.050	< 0.050	< 0.050	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
4-Bromophenylphenyl Ether		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
Hexachlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
Pentachlorophenol	0.4 (AA) & 1 (MAC) (1&2)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
Phenanthrene Anthracene	0.1 (MAC 0.4) (1 & 2)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050 < 0.050	0.29 < 0.050	-
Anthracene Carbazole	0.1 (MAC 0.4) (1 & 2)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	:-
Di-N-Butyl Phthalate		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
Fluoranthene	0.0063 (AA) & 0.12 (MAC) (1&2)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.29	-
Pyrene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.26	-
Butylbenzyl Phthalate		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
Benzo(a)anthracene Chrysene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
Bis/2-Ethylhexyl)Phthalate	1.3 (1&2)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
Di-N-Octyl Phthalate	1.0 (102)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
Benzo[b]fluoranthene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
Benzo[k]fluoranthene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
Benzo(a)pyrene	0.05 (MAC 0.1) (1 & 2)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-
Indeno(1,2,3-c,d)Pyrene Dibenz(a,h)Anthracene		< 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050	-
Benzo[q,h,i]perylene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
Methyl parathion		-	-	-	-	-	-	+		-	< 0.0075	< 0.0075	-	-		-	< 0.0075
4-Nitrophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-

The Water Farmework Directive (Priority Substances and Classification) Regulations (Northern beland) 2015 transitional waters.

2. The Water Farmework Directive (Priority Substances and Classification) Regulations (Northern heland) 2015 Freshwater.

3. Discussificate Directive (Water Protected Areas - The River Basin Districts Typology, Standards and Societies (Water Farmework Discover) (England and Water) Directions 2010

4. Freshwater CSC (AA)

5. UK Directive (Water Farmework Directive) (England and Water) Directions 2010

4. Freshwater (SSC (AA)

5. UK Directive (Water Standard Total PAH - Sum of 4 - Baroph) & (Juliuranthene. Indeno(123-digyerne, Berusopi)) propriets

8. UKD Directive (Water Standard Total PAH - Sum of 4 - Baroph) & (Juliuranthene. Indeno(123-digyerne, Barophy))

8. UKD Directive (Water Standard Total Pah - Sum of 4 - Barophy) & (Juliuranthene. Indeno(123-digyerne, Barophy))

8. Water Called (Water Standard Total Pah - Sum of 4 - Barophy) & (Juliuranthene. Indeno(123-digyerne, Barophy))

9. Water Called (Water Standard Total Pah - Sum of 4 - Barophy) & (Juliuranthene. Indeno(123-digyerne, Barophy))

SVOC's N-Nitrosodimethylamine Phenol 2-Chlorophenol	TSV	BH104	BH108													
N-Nitrosodimethylamine Phenol			Billoo	BH618D	BH619D	BH619S	BH620	BH623D	BH626	BH627	BH628	BH629	BH630	BH631	BH653	BH654S
N-Nitrosodimethylamine Phenol	ug/l															
		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	7.7 (1&2) 46 (95th%ile) (1&2)	-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Bis-(2-Chloroethyl)Ether		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1,3-Dichlorobenzene 1.4-Dichlorobenzene		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1,4-Dichlorobenzene		-		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Methylphenol (o-Cresol)		-	- :	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Bis(2-Chloroisopropyl)Ether			-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachloroethane		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
N-Nitrosodi-n-propylamine		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4-Methylphenol		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Nitrobenzene		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Isophorone		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Nitrophenol		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4-Dimethylphenol Bis(2-Chloroethoxy)Methane		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Bis(2-Chloroethoxy)Methane 2,4-Dichlorophenol		-		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1,2,4-Dichlorophenoi 1,2,4-Trichlorobenzene			- 1	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Naphthalene	2.4 (1) 1.2 (2)	-	-	< 0.050	< 0.050	< 0.050	< 0.050	1.5	24	< 0.050	< 0.050	1100	0.22	< 0.050	< 0.050	0.39
4-Chloroaniline	(-) (-)	-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachlorobutadiene		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4-Chloro-3-Methylphenol		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Methylnaphthalene		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	1.2	< 0.050	< 0.050	50	< 0.050	< 0.050	< 0.050	< 0.050
Hexachlorocyclopentadiene		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4,6-Trichlorophenol		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4,5-Trichlorophenol	160	-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Chloronaphthalene 2-Nitroaniline	160	- 1	1	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Acenaphthylene		-	- :	< 0.050	< 0.050	< 0.050	< 0.050	0.35	4.4	< 0.050	< 0.050	250	< 0.050	< 0.050	< 0.050	< 0.050
Dimethylphthalate		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2.6-Dinitrotoluene		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Acenaphthene		-	-	< 0.050	< 0.050	< 0.050	< 0.050	0.25	55	< 0.050	< 0.050	74	0.90	< 0.050	< 0.050	0.94
3-Nitroaniline		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Dibenzofuran		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	7.0	< 0.050	< 0.050	23	< 0.050	< 0.050	< 0.050	< 0.050
4-Chlorophenylphenylether		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4-Dinitrotoluene Fluorene		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Diethyl Phthalate		- 1	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4-Ntroaniline		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Methyl-4.6-Dinitrophenol		-		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Azobenzene		1 -	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4-Bromophenylphenyl Ether		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachlorobenzene		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Pentachlorophenol	0.4 (AA) & 1 (MAC) (1&2)	-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Phenanthrene			-	< 0.050	< 0.050	< 0.050	< 0.050	0.15	8.4	< 0.050	< 0.050	26	0.20	< 0.050	< 0.050	0.29
Anthracene	0.1 (MAC 0.4) (1 & 2)		-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.84	< 0.050	< 0.050	2.3	< 0.050	< 0.050	< 0.050	< 0.050
Carbazole		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.75	< 0.050	< 0.050	5.2	< 0.050	< 0.050	< 0.050	< 0.050
Di-N-Butyl Phthalate	0.0063 (AA) & 0.12 (MAC) (1&2)	-		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050 0.82	< 0.050	< 0.050	< 0.050 2.2	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050
Fluoranthene Pyrene	0.0003 (AA) & 0.12 (MAC) (1&2)	1		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.84	< 0.050	< 0.050	2.4	0.25	< 0.050	< 0.050	0.26
Butylbenzyl Phthalate		+ -	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzofalanthracene		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Chrysene		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Bis(2-Ethylhexyl)Phthalate	1.3 (1&2)	-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Di-N-Octyl Phthalate		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[b]fluoranthene		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[k]fluoranthene		-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[a]pyrene	0.05 (MAC 0.1) (1 & 2)	-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Indeno(1,2,3-c,d)Pyrene		-	-	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050
Dibenz(a,h)Anthracene Benzo(g,h,i)perylene		1 1	1 :	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050 < 0.050
Methyl parathion		< 0.0075	< 0.0075	K 0.050	K 0.050	× 0.050	× 0.050	. 0.050	× 0.050	K 0.050	× 0.050	. 0.050	K 0.050	× 0.050	K 0.050	K 0.050
4-Nitrophenol				< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050

The Water Framework Directive (Priority Substances and Classification) Regulations (Nothern Heland) 2015 transitional waters.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Nothern Heland) 2015 Fresthwater.
 Science/Market Directive (Water Protected Areas: The River Basin Districts Typology, Standards and Goundwater S. Glezuchwater Clarket, Standard (Tad Plan 4-Sun der J. Benzig), (Ripularanthera Directives 2019 4. Fresthwater CSG (AA)
 Sur Directive (Water Standard 1124 Plan 4-Sun d et J. Benzig)), (Ripularanthera Indenot(125cdipyrene, Benzig)) in priorities (Priorities Area)
 Sur Directive (Water Standard 1124 Plan 4-Sun d et J. Benzig)), (Ripularanthera Indenot(125cdipyrene, Benzig)) in priorities (Priorities Classification)
 To WHO (World Reich Organisation) - Petroleum Products in Direking Water, Background document for development of WHO Guidelines for Diriking Water Casilly, WHO

Sample Point / Determinands	TSV	BH104	BH108
	ua/l		
Demeton-O	•	< 0.20	< 0.20
Phorate		< 0.20	< 0.20
Demeton-S		< 0.20	< 0.20
Disulfoton		< 0.20	< 0.20
Fenthion		< 0.20	< 0.20
Trichloronate		< 0.20	< 0.20
Prothiofos		< 0.20	< 0.20
Fensulphothion		< 0.20	< 0.20
Sulprofos		< 0.20	< 0.20
Azinphos-Methyl		< 0.20	< 0.20
Coumaphos		< 0.20	< 0.20
Parathion		< 0.20	< 0.20
Diazinon	0.1 (AA)(1&2), 0.02 (95%ile) (1), 0.26 (95%ile)(2)	< 0.50	< 0.50
Ethion		< 0.50	< 0.50
Dichloryos	0.0006 (AA)(1), 0.0007(MAC)(1), 0.00006(AA)(2), 0.00007)MAC)(2)	< 0.50	< 0.50
Mevinphos		< 0.20	< 0.20
Fenitrothion		< 0.20	< 0.20
Malathion		< 0.20	< 0.20
Alpha-HCH		< 0.020	< 0.020
Gamma-HCH (Lindane)		< 0.020	< 0.020
Beta-HCH		< 0.020	< 0.020
Delta-HCH		< 0.020	< 0.020
Heptachlor		< 0.020	< 0.020
Aldrin		< 0.020	< 0.020
Heptachlor Epoxide		< 0.020	< 0.020
Gamma-Chlordane		< 0.020	< 0.020
Alpha-Chlordane		< 0.020	< 0.020
Endosulfan I		< 0.020	< 0.020
4.4-DDE		< 0.020	< 0.020
Dieldrin		< 0.020	< 0.020
Endrin		< 0.020	< 0.020
4.4-DDD		< 0.020	< 0.020
Endosulfan II		< 0.020	< 0.020
Endrin Aldehyde		< 0.020	< 0.020
4.4-DDT		< 0.020	< 0.020
Endosulfan Sulphate		< 0.020	< 0.020
Methoxychlor		< 0.020	< 0.020
Endrin Ketone		< 0.020	< 0.020

^{1.} The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 transitional waters.
2. The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
3. Groundwater Brinning Water Protected Areas. The River Basin Districts Typology, Standards and Groundwater threshold values (Water Framework Directive) (England and Wales) Directions 2010
4. Freshwater CSG (AA)
5. UK Drinking Water Standard *Total PAH = Sum of 4.* Benzo(b) & (I)fluoranthee, Indenot (123cd)pyrene, Benzo(ght)perylene
6. Isth Drinking Water Standard
7. WHO (World Health Organisation) - Petroleum Products in Drinking Water, Background document for development of WHO Guidelines for

Sample Point / Determinands	TSV	BH645	BH646	BHW1
	ug/l			
lemeton-O		< 0.20	< 0.20	< 0.20
horate		< 0.20	< 0.20	< 0.20
lemeton-S		< 0.20	< 0.20	< 0.20
isulfoton		< 0.20	< 0.20	< 0.20
enthion		< 0.20	< 0.20	< 0.20
richloronate		< 0.20	< 0.20	< 0.20
rothiofos		< 0.20	< 0.20	< 0.20
ensulphothion		< 0.20	< 0.20	< 0.20
ulprofos		< 0.20	< 0.20	< 0.20
zinphos-Methyl		< 0.20	< 0.20	< 0.20
Coumaphos		< 0.20	< 0.20	< 0.20
arathion		< 0.20	< 0.20	< 0.20
Diazinon	0.1 (AA)(1&2), 0.02 (95%ile) (1), 0.26 (95%ile)(2)	< 0.50	< 0.50	< 0.50
thion		< 0.50	< 0.50	< 0.50
lichlorvos	0.0006 (AA)(1), 0.0007(MAC)(1), 0.00006(AA)(2), 0.00007)MAC)(2)	< 0.50	< 0.50	< 0.50
fevinphos		< 0.20	< 0.20	< 0.20
enitrothion		< 0.20	< 0.20	< 0.20
Malathion		< 0.20	< 0.20	< 0.20
lpha-HCH		< 0.020	< 0.020	< 0.020
Samma-HCH (Lindane)		< 0.020	< 0.020	< 0.020
leta-HCH		< 0.020	< 0.020	< 0.020
lelta-HCH		< 0.020	< 0.020	< 0.020
leptachlor		< 0.020	< 0.020	< 0.020
ldrin		< 0.020	< 0.020	< 0.020
leptachlor Epoxide		< 0.020	< 0.020	< 0.020
amma-Chlordane		< 0.020	< 0.020	< 0.020
lpha-Chlordane		< 0.020	< 0.020	< 0.020
ndosulfan I		< 0.020	< 0.020	< 0.020
,4-DDE		< 0.020	< 0.020	< 0.020
Pieldrin		< 0.020	< 0.020	< 0.020
ndrin		< 0.020	< 0.020	< 0.020
,4-DDD		< 0.020	< 0.020	< 0.020
ndosulfan II		< 0.020	< 0.020	< 0.020
ndrin Aldehyde		< 0.020	< 0.020	< 0.020
.4-DDT		< 0.020	< 0.020	< 0.020
ndosulfan Sulphate		< 0.020	< 0.020	< 0.020
1ethoxychlor		< 0.020	< 0.020	< 0.020
ndrin Ketone		< 0.020	< 0.020	< 0.020

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 transitional waters.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Frashwater.
 S. Gruundwater Directive) (England and Wales) Directions 2010
 Frashwater (SS) (England and Wales) Directions 2010
 Frashwater (SS) (An)
 S. With Control of the Control of

APPENDIX 10 - GROUNDWATER & SURFACE WATERS SUMMARY - ROUND 2

Mobuov Road Waste Site Remediation Surface Water Screening Round 2

Sample Point /	TSV	MBAT PNEC	CEMP Pond 3A	CEMP Pond 5	CEMP-DS	CEMP-DS	CEMP-DS	CEMP-POMD 3A	CEMP-POND 3	CEMP-POND 3A	CEMP-POND 5	CEMP-Pond 5	CEMP-POND3A	CEMP-US	CEMP-US	CEMP-US	Pond 5
Determinands HEAVY METALS	μα/I	(ug/l)															
Arsenic (diss.filt) Boron (diss.filt)	50 (AA) (1) 25 (AA (2)		0.31 51	0.75 41	0.69 490	0.27 700	0.38 < 10	0.51 680	0.81 600	0.25 580	0.39 560	2.2 100	0.44 630	0.39 650	0.24 700	0.89 370	0.68 28
Barium (diss.filt)	700 (8)		15	< 5.0	5.4	9	< 10 11	12	5.9	9.1	8.5	11	11	11	8.6	13	< 5.0
Beryllium (diss.filt)	0.09 (AA) & 0.6 (MAC) (1) 0.6 (AA) (2) CaCO ₃ 50 - <100 mg/l		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2	< 1.0	< 1.0	< 1.0	< 1.0 0.23	< 1.0
Cadmium (diss.filt) Chromium (diss.filt)	50 (5)		< 0.11 < 0.50	< 0.11 < 0.50	< 0.50	< 0.11	< 0.11 4.8	< 0.11 < 0.50	< 0.11 < 0.50	0.68	< 0.50	4.3	< 0.11 < 0.50	< 0.50	< 0.11	14	< 0.11
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94	1.5	0.96	2.3	1.3	3.4	1.9	1.9	1.2	1.2	6	1.4	1.2	0.97	56	0.94
Iron (diss.) Mercury (diss.filt)	1000 (AA) (182) 0.07 MAC (182)		5.4 < 0.05	110 < 0.05	100	210 r 0.05	260 < 0.05	25 < 0.05	110	55 < 0.05	240 < 0.05	160 < 0.05	18 < 0.05	26 < 0.05	210 < 0.05	470 < 0.05	100 < 0.05
Manganese (diss.filt)	123 (AA) (see note 1)	276.92	4.8	1.8	2.4	50	12	7.5	3.2	54	28	57	68	0.89	38	30	1.4
Molybdenum (diss.filt)	70 (8)		< 0.20	< 0.20	< 0.20	< 0.20	0.72	< 0.20	0.28	< 0.20	< 0.20	1200	< 0.20	< 0.20	< 0.20	2200	< 0.20
Nickel (diss.filt) Lead (diss.filt)	4 [see role 5] (AA) (1), 8.6 (AA) (2), 34 (MAC) (1&2) 1.2 [see role 5] (AA) (1), 1.3 (AA) (2), 14 (MAC) (1&2)	14.98 9.64	1.3 < 0.50	< 0.50	1.7 < 0.50	0.86 < 0.50	4.3 < 0.50	1.2 < 0.50	2.7	1.1	0.85 < 0.50	1.3	1.3	< 0.50	0.92 < 0.50	6.1 0.9	1.7 < 0.50
Antimony (diss.filt)	5 (5)	5.54	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.6	< 0.50	< 0.50	< 0.50	5.8	< 0.50
Selenium (diss.filt)	10 (5)	37.15	< 0.50	< 0.50 < 2.5	< 0.50 4.5	< 0.50	< 0.50 5.7	< 0.50 5.3	< 0.50 < 2.5	< 0.50 4.7	< 0.50 4.2	6.8 4.5	< 0.50 < 2.5	< 0.50	< 0.50	9.2 23	< 0.50 < 2.5
Zinc (diss.filt) Chromium III (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (me Note 2) 4.7 (AA) (1) 95th%ile (32)	37.15	< 2.5 < 20	< 2.5	4.5 < 20	< 20	< 20	< 20	< 2.5	4.7 < 20	4.2 < 20	4.5 < 20	< 2.5	< 2.5	< 20	< 20	< 20
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.12	0.12	< 0.10	5.8	4.2	1.6	< 0.10	0.1	< 0.10	1.4	4.8	< 0.10	5.9	4.1	0.15
Phenois Phenois, Total	ug/l 7.7 (1&2) 46 (95th%ile) (1&2)		< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030
Speciated TPH	ug/l																
Aliphatics FC C5-C6	15000 (7)	 	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	£ 0.10	e 0.10	e 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C6-C8	15000 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C8-C10 FC>C10-C12	300 (7) 300 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C12-C16	300 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C16-C21 EC>C21-C35			< 0.10 150	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C35-C44			< 0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10
Total Aliphatics >C5-C35 Aromatics			150	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
EC C5-C7	10 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C7-C8	700 (7) 300 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C8-C10 EC>C10-C12	300 (7) 90 (7)		< 0.10 < 0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C12-C16	90 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C16-C21 EC>C21-C35	90 (7) 90 (7)		< 0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C35-C44			< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatics >EC5-EC35 ntal Alignmatics & Aromatics >C5-			< 5.0 150	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10
BTEX/MTBE/GRO	μgЛ																
MTBE	15 (5°) 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)		< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0	< 1.0
Benzene Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0	< 1.0	< 1.0	< 1.0 < 1.0
Ethylbenzene	300 (8)		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 < 1.0	< 1.0	< 1.0	< 1.0
p/m-Xylene o-Xylene			< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0 < 1.0	< 1.0	< 1.0	< 1.0 < 1.0	2.9 1.6
Polyaromatic Hydrocabons	μg/l		£ 0.010		£ 0.010	£ 0.010	< 0.010	< 0.010	£ 0.010	× 0.010		× 0.010		< 0.010		< 0.010	< 0.010
Naphthalene (aq) Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)		< 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Acenaphthene (aq)			< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Fluorene (aq) Phenanthrene (aq)	:		< 0.010 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Fluoranthene (aq) Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)	1	< 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo(a)anthracene (aq)			< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Chrysene (aq) Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010 < 0.010
Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2)		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))		< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010 < 0.010
Dibenzo(a,h)anthracene (aq)			< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo(g,h,i)perylene (aq) PAH, Total Detected USEPA 16	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
(aq)	•		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
INORGANICS Dissolved Organic Carbon	mg/l		5.2	7.6	21	3.8	5	6.1	11	31	31	9.6	36	21	4.1	5.3	6.6
pH	6-9		7.9	7.9	8.1	8.3 100	8.6	7.6	8.1	8	7.8	8.2 120	8.3 170	7.8	8.3	8.4	7.7
Alkalinity (Total) Chloride	250 (5)		120 30	120 32	130	100 30	95 31	140 29	150 34	110 26	90 26	120 29	170 39	190 32	95 25	91 27	120 33
Ammonia (Free)	0.3 (1) Types 1,2,4 and 6 (see rote 3)		< 0.050	< 0.050	0.24	0.11	0.092	< 0.050	0.17	0.31	0.057	< 0.050	0.72	0.67	0.068	0.1	< 0.050
Ammonium			0.22	0.45	4.9	1.4	0.55	1.1	2.9	6.9	2	0.67	9.1	22	0.74	0.83	1.5
Nitrite Nitrate	50 (5)	1	0.084 7.4	0.054 < 0.50	0.086	0.06 7.6	0.021 7.7	0.12 5.4	0.068	0.094 6.9	0.077	< 0.020 < 0.50	0.13 9.8	0.16 9	0.047 7	0.02 5.4	0.051 17
Sulphate	250 (5)		16	15	17	18	13	26	18	13	13	14	27	17	14	11	20
Cyanide (Total) Low-Level Calcium	0.001 (AA), 0.005 (95%ile) (1&2)		< 0.0050 35	< 0.0050 30	< 0.0050	< 0.0050	< 0.0050 25	< 0.0050 33	< 0.0050	< 0.0050 24	< 0.0050 24	< 0.0050 36	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050 28
Potassium			6.8	7.3	6.8	1.9	3	6.3	7.9	2.2	1.8	9.2	6.7	6.2	1.8	2.6	6.7
Magnesium	200 (5)		6.8 17	7.9 17	7.2	5	5.2	6.2 16	7.3	4.6	4.6	8.6	6.4	6.2	4.9	4.8	7.5
Sodium Electrical Conductivity	200 (5)		330	300	15 230	- 12	14 250	320	19	12 310	12 300	24 310	16 310	15 220	12	29 240	15 310

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1. The Water Financian Directive (Priority Substances and Classification) Regulators (Northern Indiand, 2015 Freshwater

2. The Water Financian Directive (Priority Substances and Classification) Regulators (Northern Indiand, 2015 Streathcal sealer.

2. The Water Financian Classification of Classification (Substances and Classification) Regulators (Northern Indiand, 2015 Streathcal sealer.

3. The Water Financian Classification of Classification (Substances and Classification) Regulators (Water Financian) Classification (Water Financ

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EOS). Where the MAC-EOS are marked as "not applicable", the AA-EOS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basis of acceleration(s).

Note:

Note: 1-OSBoovalbable derived via the Metal Bloavailability Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool with pile DOC and Cs to deriver a EDS referred to as the PNEC/discoved. http://www.vds.k.org/resources/lvers-bales-metal-booralability-assessment using the M-BAT tool Motor 2-OSBoovalbable derived via the Metal Bloavailability Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool Motor 2-OSBoovalbable derived via the Metal Boovalbable Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool Motor 2-OSBoovalbable derived via the Metal Boovalbable Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool Motor 2-OSBoovalbable derived to the Metal Boovalbable Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool Motor 2-OSBoovalbable derived to the Metal Boovalbable Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool Motor 2-OSBoovalbable derived to the Metal Boovalbable Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool M-BAT

Mobuoy Road Waste Site Remediation Surface Water (VOC) Screening Round 2

	TSV	CEMP-POND
VOC's	ug/l	
Dichlorodifluoromethane	-9.	< 0.10
Chloromethane		< 0.10
Vinvl chloride	0.5 (5)	< 0.10
Bromomethane		< 2.0
Chloroethane		< 0.20
Trichlorofluoromethane		< 0.10
1,1-Dichloroethene		< 0.10
trans-1,2-Dichloroethene		< 0.10
1,1-Dichloroethane		< 0.10
cis-1,2-Dichloroethene		< 0.10
Bromochloromethane		< 0.50
Trichloromethane		< 0.10
1.1.1-Trichloroethane	100 (4)	< 0.10
Tetrachloromethane		< 0.10
1,1-Dichloropropene		< 0.10
Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)	< 0.10
1,2-Dichloroethane	10 (AA)(1&2)	< 0.20
Trichloroethene	10 (5)	< 0.10
1,2-Dichloropropane		< 0.10
Dibromomethane		< 0.10
Bromodichloromethane		< 0.50
cis-1,3-Dichloropropene		< 1.0
Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)	< 0.10
trans-1,3-Dichloropropene		< 1.0
1,1,2-Trichloroethane	300 (2), 400(1)	< 0.1
Tetrachloroethene	10 (1 &2)	< 0.10
1,3-Dichloropropane	• •	< 0.20
Dibromochloromethane		< 1.0
1,2-Dibromoethane		< 0.50
Chlorobenzene		< 0.10
1,1,1,2-Tetrachloroethane		< 0.20
Ethylbenzene	300 (7)	< 0.10
m,p-Xylene		< 0.10
o-Xylene		< 0.10
Styrene	20 (5)	< 0.10
Tribromomethane		< 1.0
Isopropylbenzene		< 0.10
Bromobenzene		< 0.10
1,2,3-Trichloropropane		< 5
N-Propylbenzene		< 0.10
2-Chlorotoluene		< 0.10
1,3,5-Trimethylbenzene		< 0.10
4-Chlorotoluene		< 0.10
tert-Butylbenzene		< 0.10
1,2,4-Trimethylbenzene		< 0.10
sec-Butylbenzene		< 0.10
1,3-Dichlorobenzene		< 0.10
4-iso-Propyltoluene		< 0.10
1,4-Dichlorobenzene		< 0.10
n-Butylbenzene		< 0.10
1.2-Dichlorobenzene		< 0.10
1,2-Dibromo-3-chloropropane		< 5
1,2,4-Trichlorobenzene		< 0.10
Hexachlorobutadiene	0.6 (MAC) (1,2)	< 0.10
1,2,3-Trichlorobenzene	0.4 (1,2)	< 0.20
ethyl tertiary butyl ether (MTBE)		< 0.10

- The Water Framework Directive Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Framework Directive Priority Substances and Classification) Regulations (Northern Ireland) 2015 Interactional values.
 The Water Framework Directive Priority Substances and Classification) Regulations (Northern Ireland) 2015 Interactional values.
 Gourdwater Drinking Water Products Water. The River Basin Directive Typicogy, Standards and Groundwater Rheshold values (Water Framework, Directive).
 Substances Substances (Southern Substances).
 Substances Substances (Southern Substances).
 Substances Substances (Southern Substances).
 WHO (Workel Past Classifier).
 Petroleum Products in Direkting Water, Background document for development of WHO Guidelines for Direkting Water Culture).
 WHO (Direkting Water Classifier).
- MAC This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of audentoxing.

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- mg/ Note 5 These EQS refer to bioavailable concentrations of the substances.l

Mobuoy Road Waste Site Remediation Surface Water (SVOC) Screening Round 2

TSV	CEMP-PONE
ug/l	
	< 0.050
7.7 (1&2) 46 (95th%ile) (1&2)	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
0.4 (4) 4.0 (0)	< 0.050
2.4 (1) 1.2 (2)	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
100	< 0.050
160	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050 < 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
	< 0.050
0.4 (8.8) 8.1 (MAC) (18.2)	< 0.050
0.4 (AA) & 1 (MAC) (1&2)	< 0.050 < 0.050
0.1 (MAC 0.4) (1.8.2)	< 0.050
U.1 (MAC U.4) (1 & 2)	< 0.050
	< 0.050
0.0063 (AA) & 0.12 (MAC) (18.2)	< 0.050
5.5505 (MA) & 0.12 (MAC) (1&2)	< 0.050
	< 0.050
	< 0.050
	< 0.050
1 3 (182)	< 0.050
1.3 (102)	< 0.050
	< 0.050
	< 0.050
0.05 (MAC 0.1) (1.8.2)	< 0.050
0.03 (MAC 0.1) (1 & 2)	< 0.050
	< 0.050
	< 0.050
	< 0.050
	0.91 7.7 (18.2) 46 (95th/sile) (18.2) 7.7 (18.2) 46 (95th/sile) (18.2) 2.4 (1) 1.2 (2) 160 0.4 (AA) 8.1 (MAC) (18.2) 0.1 (MAC 0.4) (1.8.2) 0.5063 (AA) 8.0.12 (MAC) (18.2) 1.3 (18.2) 0.05 (MAC 0.1) (1.8.2)

- The Water Framework Directive (Priority Substances and Classification) Regulations (Northern beland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern beland) 2015 fransitional waters.
 Groundwater Directiving Water Protection Kreats The River Ballot Entries Typicing. Standards and Groundwater threshold values (Water Framework Directive) (England and Water) Directions 2010
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 M. With Directive (Water Standard 'Goods Weeker Ballot Water)
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- MAC This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basis of auctioxide.

- Notes:

 Notes: CCGSboxwallable derived via the Metal Bioxwallability Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the MEAT tool with pix LOCC and Ca to derive a ECG withered to as the PNECdiscoved.

 Note 2 CCGSboxwallable derived via the Metal Bioxwallability Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the MEAT tool with pix LOCC and Cast to derive a ECG effect of the MEAT developed by WFDTAG. Look at receptor specific assessment using the MEAT tool with pix LOCC and Cast to derive a ECG effect of the MEAT developed by WFDTAG. Look at receptor specific assessment using the MEAT tool with pix LOCC and Cast of Look at Receptor specific assessment of using the MEAT cast of the SEAT and Cast

Sample Point / Determinands	TSV	MBAT PNEC (ug/l) BH214	BH215	BH405	BH408	BH407	81405	BH303	BH208 BH12	В ВН617	BH301	BH649	BHS47A	BH665	8H674 B	IH672 B	BH671 BH666	8H668	BH6595	BH659D	BHSSQA	BH667	BH669 BI	H670	BH673	BH675 BH676
Arsenic (diss.filt)	мд/і 50 (AA) (1) 25 (AA (2)	64	18	23	0.42	3.7	2.4	78	<0.20 <0.2		0.46	28	43						10	14	41	7.4	52	44	64	11 45
Boron (diss.filt) Barium (diss.filt)	700 (8)	3900 170	1500 100	840 150	530	630 13	1300 390	1300 180	910 850 33 48		150 60	650 380	200 < 5.0			:			1200	910 410	680 370	200 160	870 : 200 -	380 400	510 130	190 690 55 210
Beryllium (diss.filt)		<1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0 <1.0		<1.0	<1.0	<1.0			-			<1.0	<1.0	<1.0	< 1.0		1.0	<1.0	<1.0 <1.0
Cadmium (diss.filt) Chromium (diss.filt)	(AA) (2) CaCO ₂ 50 - <100 mg/l	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11 1.7	0.13 0.24		< 0.11	< 0.11	< 0.11		-			-	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11 <	0.11	0.3	<0.11 < 0.11
Copper (diss.filt)	1 (AA) bioavailable (** ** ** ** ** ** ** ** ** ** ** ** **	21 34.94 2.2	15 0.99	0.95 < 0.50	< 0.50 < 0.50	<0.50 <0.50 46	15 12	2.7	<0.50 <0.5 0.51 1.1 8.4 <5.0		< 0.50 0.56	0.9 3.7	< 0.50 11 550		- 1				15 < 0.50	10 < 0.50	5.5 0.68	1.8 1.4 46	10 <0.50 110	2.1 1.9 79	2.5 7.7 350	0.83 < 0.50 1.4 < 0.50 9.5 15
Mercury (diss.fit)	0.07 MAC (182)	26000 40.05	45000 < 0.05	< 0.05	< 0.05	< 0.05	4500 < 0.05	< 0.05	< 0.05 < 0.0		170 < 0.05	51 < 0.05	< 0.05	- :					< 0.05	100 < 0.05	4900 < 0.05	< 0.05	< 0.05 <	0.05	< 0.05	< 0.05 < 0.05
Manganese (diss.filt) Molybdenum (diss.filt)	123 (AA) (**********) 70 (8)	276.92 420 2.3	1000	0.4	450 0.78	1600 0.98	9300 2.9	3200 < 0.20	1000 520 < 0.20 < 0.2		1300 0.42	13000 2.8	2.5 11	- :	- :	-		- :	1000	9100 6.8	6200 3.2	3300 4.6			3400 4.3	2700 530 0.39 50
Nickel (diss.filt)	4 ^{hor note 1} (AA) (1), 8.6 (AA) (2), 34 (MAC) (18.2) 1.2 ^{hor note 1} (AA) (1), 1.3 (AA) (2), 14 (MAC) (18.2)	14.98 170 9.64 1.5	41 0.82	23 < 0.50	0.96 < 0.50	4.3	22 <0.50	14 6.3	6.7 15 <0.50 <0.5		9.5	35 < 0.50	24 <0.50		-			-	9.2 1.6	19 0.98	24 <0.50	16 < 0.50	7.1	23	60 < 0.50	8.8 5.8 <0.50 <0.50
Lead (diss.filt) Antimony (diss.filt)	10 (c) 10 (c)	3.4	1.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 < 0.5		< 0.50	< 0.50	1.1		- 1				1.1	1.1	1	0.8	0.79	0.5	2.7	< 0.50 < 0.50
Selenium (diss.filt) Zinc (diss.filt)	10 (3) 10.9 (AA) (1) +ABC bicovallable 6.8 (AA) (2) +ABC (less Note 2)	2.5 37.15 93	< 0.50 61	< 0.50 6.3	< 0.50 10	< 0.50 4.7	1.2 34	0.73 33	<0.50 <0.5 5.9 10	-	< 0.50 4.6	< 0.50 17	7.6 < 2.5						1.6 68	2.1 80	2.5 87	0.59 11	50		0.73 390 2600	<0.50 < 0.50 13 7.9
Iron (Total) Manganese (Total) Manganese [II]		-			55 440	46 1600			- < 5.0 - 540	1000		51 13000		44000 13000			250 590 6600 3200	460 3200		4700 12000	6600 8900	1600 5600	6600 10	6000	5700	1300 260 4600 790
Manganese [1] Manganese [IV]		-		-	390 59	1200			- 100 - 5200i	0 1000000	-	2600 13000000	-	3200 8800	110 6	6500	510 1000 4000 1300	110 3100	-	3500 5600	3000 3300	770 2500	1800 8	8900	1000 2400	1200 110 17000000 3300000
Manganese [IV] Iron [8] Iron [8] Chromium III (diss.filt)		-	-	-	< 20 56	< 20 46			- <20 - <20	11000 < 20	-	< 20 51	-	25000 19000	40	< 20 130	<20 80 220 210	130	-	50 51	9000 < 20	< 20 45	50 55	20 59	<20 350	17000000 3300000 <20 <20 <20 <20
	4.7 (AA) (1) 95th/sile (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th/sile) (2)	21 0.44	< 20 < 0.10	< 20 < 0.10	< 20 < 0.10	< 20 < 0.10	< 20 1.2	< 20 1.3	<20 <20 1.4 1.5	-	< 20 < 0.10	< 20 < 0.10	< 20	- :	- :			-	< 20	< 20 < 0.10	< 20 < 0.10	< 20 < 0.10			< 20 < 0.10	<20 <20 0.1 <0.10
Phenols 1-Naphthol	ug/i													< 0.0050	< 0.0050 < 0	0.0050 <0	0.0050 < 0.0050	< 0.0050								< 0.0050 < 0.0050
Trimethylphenols Cresols			- :	- 1	- :	- :	-:-	- :			- :	- :	- :	< 0.0050	< 0.0050 < 0 < 0.0050 < 0	0.0050 <0	0.0050 < 0.0050 0.0050 < 0.0050 0.0050 < 0.0050	< 0.0050 < 0.0050	- 1	- :	- :	- :			-	< 0.0050 0.21 < 0.0050 0.13
Phenol		-			-		-:-	- :				- :	<u> </u>	0.11	< 0.0050 < 0 < 0.0050 < 0	0.0050 <0	0.0050 < 0.0050	0.011 <0.0050	- :	- :		- :			-	< 0.0050 0.068
Resorcinol Xylenols Phenols Total	7.7 (18.2) 46 (95th/Gle) (18.2)	,0000	× 0.030	0.046	< 0.030	/0.030	< 0.050	×0.0%0	× 0.030 × 0.01	0 40020	 - 0.030	×0.030	0.45	< 0.0050 0.054 0.49	< 0.0050 < 0 < 0.0050 < 0	0.0050 <0	0.0050 < 0.0050 0.0050 < 0.0050 < 0.030 < 0.030	< 0.0050	× 0.030	- 0.030	0.14	< 0.030	< 0.030	1059	Z 0.030	< 0.0050 < 0.0050 0.098 0.12
Speciated TPH Aliphatics	ch carrier carrier	× 0.030	. 0.030	0.040	. 0.030	10.000	10.000	10000	.3020 <0.00		10.000	10.000	0.45	0.45	.0000 (5,0000	0.27	10.030	. 3.030		. 5.030	
EC CS-C6 EC-C6-C8	15000 (7) 15000 (7)	<0.10 <0.10	<0.10 <0.10	< 0.10 < 0.10	< 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10	<0.10 <0.1 <0.10 <0.1	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	<0.10 <0.10	<0.10 <	(0.10 4	<0.10 <0.10 <0.10 <0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10	<0.10 <0.10	<0.10 <0.10	< 0.10 × < 0.10 ×	0.10	< 0.10	<0.10 <0.10 <0.10 <0.10
EC-C8-C10	15000 (7) 300 (7) 300 (7)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10	65 <	< 0.10	< 0.10 < 0.10	< 0.10	17	< 0.10	19	< 0.10	< 0.10 <	0.10	< 0.10	< 0.10 < 0.10
EC+C16-C12 EC+C12-C16 EC+C16-C21	300 (7) 300 (7)	<0.10 <0.10	< 0.10 38	< 0.10 < 0.10 <0.10 <0.1 <0.10 <0.1	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	27 < 0.10	33 < <0.10 <	0.10	33 <0.10 <0.10 <0.10	< 0.10 < 0.10	25 < 0.10	20 < 0.10	26 <0.10	< 0.10 < 0.10	< 0.10 <	0.10	< 0.10 < 0.10	<0.10 <0.10 <0.10 <0.10					
E0:C16:C21 E0:C21:C35 E0:C35:C44		< 0.10 430	< 0.10 250 < 0.10	< 0.10 92	₹0.10	< 0.10 270 < 0.10	<0.10 <0.10 <0.10	< 0.10 200	<0.10 < 0.1 <0.10 < 0.1 <0.10 < 0.1	0 < 0.10 0 < 0.10 0 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	<0.10 <0.10 <0.10	<0.10 <	0.10 6	<0.10 <0.10 <0.10 <0.10 <0.10 <0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 540	<0.10 <0.10 <0.10	< 0.10 < 0.10 < 0.10	<0.10 < 300 < <0.10 <	0.10 0.10 0.10	< 0.10 < 0.10 < 0.10	<0.10 < 0.10 <0.10 < 0.10 <0.10 < 0.10
Total Aliphatics >C5-C35		60 490	< 0.10 290	< 0.10 92	< 0.10 < 5.0	< 0.10 270	< 0.10 < 5.0	< 0.10 200	<0.10 < 0.1 <5.0 < 5.0	< 0.10 < 5.0	< 0.10 < 5.0	< 0.10 < 5.0	< 0.10 < 5.0	< 0.10 27	< 0.10 < 98 ·	< 5.0 <	<0.10 <0.10 33 <5.0	< 0.10 < 5.0	< 0.10 42	< 0.10 560	< 0.10 45	< 0.10 < 5.0	< 0.10 < 330 <	0.10 < 5.0	< 0.10 < 5.0	<0.10 < 0.10 <5.0 < 5.0
Aromatics EC CS-C7	10 (7)	<0.10	< 0.10	110	< 0.10		< 0.10	110	< 0.10 < 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10 <	0.10	< 0.10 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10 <	0.10	750	58 < 0.10
EC+C7-C8 EC+C8-C10	700 (7) 300 (7)	22 80	< 0.10 53	< 0.10 220	< 0.10 < 0.10	< 0.10 < 0.10	<0.10 <0.10	< 0.10 200	<0.10 < 0.1 <0.10 < 0.1	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	<0.10 <0.10	< 0.10 390	< 0.10 < 880 <	0.10	<0.10 < 0.10 <0.10 < 0.10	< 0.10 < 0.10	< 0.10 20	< 0.10 < 0.10	< 0.10 450	< 0.10 < 0.10	580 <	0.10	< 0.10 6400	41 < 0.10 16 < 0.10
EC-C10-C12 EC-C12-C16	90 (7) 90 (7)	350 180	140 68	< 0.10	< 0.10 < 0.10	< 0.10	<0.10 <0.10	350 < 0.10	<0.10 <0.1 <0.10 <0.1	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	980 250	600 < 950 <	0.10	80 < 0.10 < 0.10 < 0.10	< 0.10 < 0.10	120 180	800 380	2600 1300	< 0.10 < 0.10		0.10	5500 4500	420 < 0.10 150 < 0.10
EO:C16-C21 EO:C21-C35	90 (7) 90 (7)	94 21	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	<0.10 <0.10	< 0.10 < 0.10	<0.10 <0.1 <0.10 <0.1	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 83	110 <	0.10	<0.10 <0.10 <0.10 <0.10	< 0.10 < 0.10	< 0.10 < 0.10	21 72	66 76	< 0.10 < 0.10	61 < 88	0.10	220 87	420 < 0.10 150 < 0.10 25 < 0.10 < 0.10 < 0.10
EC-C35-C44		<0.10 750	< 0.10	< 0.10	< 0.10 < 5.0	< 0.10 < 5.0	<0.10 <5.0	< 0.10 660	<0.10 < 0.1 <5.0 < 5.0	< 0.10 < 5.0	< 0.10 < 5.0	< 0.10 < 5.0	<0.10 <5.0	< 0.10 1700	< 0.10 <	(0.10 < < 5.0	<0.10 <0.10 80 <5.0	< 0.10 < 5.0	< 0.10 320	< 0.10 1300	< 0.10 4600	< 0.10 < 5.0	< 0.10 4500	180 250	< 0.10 18000	< 0.10 < 0.10
Total Aromatics >ECS-EC35 Total Aliphatics & Aromatics >CS-3 BYEX/MYBE/GRO	ur/l	1200	260 550	480	< 10	270	< 10	860	<10 <10	<10	< 10	<10	< 10	1700	2700	× 10	110 < 10	<10	360	1800	4600	< 10	4900	250 260	18000	710 < 5.0 710 < 10
						< 1.0				<1.0	< 1.0							< 0.10							<1.0	<10 <10
MTBE	15 (5*) 10 (44) MAC 50 (1) 8 (44) MAC 50 (2)	2.9	430	<1.0			<1.0	< 1.0	<1.0 <1.0	<1.0 <1.0		×1.0	<1.0 <1.0	< 0.10	< 0.10 <	(0.10	< 0.10 < 0.10 150 < 0.10	< 0.10 < 0.10		< 1.0	< 1.0	< 1.0	<1.0 <			£10 £10
Benzene	15 (5*) 10 (AA) MAC 50 (1), E (AA) MAC 50 (2) 74 (AA) 95th/sie (380) (1), 74 (AA) 95th/sie (370) (2)	3.40		< 1.0	< 1.0	< 1.0	< 1.0	9700	<1.0 < 1.0 <1.0 < 1.0	< 1.0	<1.0	<1.0 <1.0	<1.0 <1.0	800	<0.10 < 210 < 24 < 27	(0.10 < (0.10 <	<0.10 <0.10 150 <0.10 <0.10 <0.10	< 0.10 < 0.10 < 0.10	< 1.0	950	1100	<1.0 <1.0	6700	780	68	<10 <10 <10 360
	15 (2) [3] 10 (AA) AMAC 10 (1); (AA) AMAC 50 (2) 74 (AA) 556NNie (280) (1), 74 (AA) 556NNie (270) (2) 100 (8)	3.40 3 19	2.1	<1.0 <1.0 <1.0	<10 <10 <10	<1.0 <1.0 <1.0	<1.0 <1.0 <1.0	9700 1000 1400	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0	<10 <10 <10	<1.0 <1.0	<1.0 <1.0 <1.0	800 110 78	24 < 27 <	(0.10	< 0.10 < 0.10 < 0.10 < 0.10	< 0.10 < 0.10	<1.0 <1.0 8.3	950 <1.0 24	1100 <1.0 59	<1.0 <1.0 <1.0	6700 <1.0	780 100 120	68 18 110	<1.0 360 <1.0 37
Binzene Toluene Ethylbenzene p/m-Xylene o-Xylene PCSs	15 (5*7) 10 (AAM SE (51)), BAAL MAC 55 (2) 21 (AAA) SEMMAR (200) (1), 22 (AAA) SEMMAR (200) (1), 22 (AAA) SEMMAR (200) (1), 22 (AAA) SEMMAR (200) (2) 200 (6) 207)	3.40	1.7 4.30 2 2.1 14 7	< 1.0	<10 <10 <10	< 1.0	<1.0 <1.0 <1.0	9700 1000 1400	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0	< 1.0	<10 <10 <10	<1.0 <1.0	<1.0 <1.0 <1.0	25 16	24 < 27 < <0.10 < <0.10 <	(0.10 < (0.10 < (0.10 < (0.10 < (0.10 <	<0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	< 0.10 < 0.10 < 0.10 < 0.10	<1.0 <1.0 8.3 64 <1.0	950 <1.0 24 20 <1.0	1100 <1.0 59 51 30	<10 <10 <10 <10 <10	6700 : <1.0 : 510 : 46 : 32	780 100 120 14 11	68 18 110 29 29	<1.0 <1.0 <1.0 350 <1.0 37 <1.0 26 <1.0 19
Benzene Tolszene Ethylbenzene g/m-xytene -xytene -xytene PES congener 81 PES congener 77	15 (51°) 15 (AM) ME (510°) (AM) ME (510°) 27 (AM) SHINKE (2001 (1), 74 (AM) SHINKE (2001 (2)) 300 (6) 800 (6) 800 (6)	3.40 3 19	2.1	<1.0 <1.0 <1.0	<10 <10 <10	<1.0 <1.0 <1.0	<1.0 <1.0 <1.0	9700 1000 1400	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0	<10 <10 <10	<1.0 <1.0	<1.0 <1.0 <1.0	800 110 78 25 16 <0.010 <0.010	24 < 27 < 40.10 < 40.10 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.00 < 40.0	(0.10	<0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.010 <0.010 <0.010 <0.010	<0.10 <0.10 <0.10 <0.10 <0.10 <0.010	<1.0 <1.0 8.3 64 <1.0 <0.010 <0.010	950 <1.0 24 20 <1.0 <0.010 <0.010	1100 <1.0 59 51 30 <0.010 <0.010	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <0.010	6700 :	780 100 120 14 11	68 18 110 29 29 <0.010 <0.010	<1.0 360 <1.0 37
Benzene Tolsene Ethylbenzene p/m-Kylene - p/m-Kylene - p/CS PCB congener 81 PCB congener 77 PCB congener 77 PCB congener 95	15(5)** (15 14)(AMC 15)** (15 14)(AMC 15)** (17 14)(AMC 15)(AMC 15)** (17 14)(AMC 15)(AMC 15)(AMC 15)** (17 14)(AMC 15)(AMC	3.40 3 19	2.1	<1.0 <1.0 <1.0	<10 <10 <10	<1.0 <1.0 <1.0	<1.0 <1.0 <1.0	9700 1000 1400	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0	<10 <10 <10	<1.0 <1.0	<1.0 <1.0 <1.0	800 110 78 25 16 <0.010 <0.010 <0.010	24 < 27 < 0.10 < 0.10 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010	(0.10	<0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	< 0.10 < 0.10 < 0.10 < 0.10	<1.0 <1.0 8.3 64 <1.0 <0.010 <0.010 <0.010 <0.010	950 <1.0 24 20 <1.0 <0.010 <0.010 <0.010 <0.010	1100 <1.0 59 51 30 <0.010 <0.010 <0.010	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <0.010 <0.010 <0.010	6700 :	780 100 120 14 11 0.010 0.010	68 18 110 29 29 29 <0.010 <0.010 <0.010	<1.0 360 <1.0 37
Restance Tolurars Tolurars Ethyllocrosses (pfm. Nylorin Sylver Sylver Sylver PCS congener 81 PCS congener 83 PCS congener 105 PCS congener 118 PCS congener 118 PCS congener 118	33(97) 33(A)AME (30) \$1(A)(A(C 53))] MAGE SERVICE (30) \$1, (A)(A(C 53))] 20) 20)	3.40 3 19	2.1	<1.0 <1.0 <1.0	<10 <10 <10	<1.0 <1.0 <1.0	<1.0 <1.0 <1.0	9700 1000 1400	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0	<10 <10 <10	<1.0 <1.0	<1.0 <1.0 <1.0	800 110 78 25 16 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	24 < 27 <	(0.10 4 (0.10	<pre><0.10</pre>	<0.10 <0.10 <0.10 <0.10 <0.00 <0.010 <0.010 <0.010 <0.010 <0.010	<1.0 <1.0 8.3 64 <1.0 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	950 <1.0 24 20 <1.0 <0.010 <0.010 <0.010 <0.010 <0.010	1100 <1.0 59 51 30 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	<10 <10 <10 <10 <10 <10 <10 <10 <0000 <0000 <0000 <0000 <0000 <0000 <0000 <0000	6700	780 100 120 14 11 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010	68 18 110 29 29 <0.010 <0.010 <0.010 <0.010 <0.010	<1.0 360 <1.0 37
Bestance Tolsare Ethyllomoses Ethyllomoses (mr. Nytere 0-Xytere 0-Xytere PCE congener 81 PCE congener 17 PCE congener 18 PCE congener 18 PCE congener 18 PCE congener 18 PCE congener 18 PCE congener 18 PCE congener 18 PCE congener 196 PCE congener 196 PCE congener 196	18 (17) (18) (18) (18) (18) (18) (18) (18) (18	3.40 3 19	2.1	<1.0 <1.0 <1.0	<10 <10 <10	<1.0 <1.0 <1.0	<1.0 <1.0 <1.0	9700 1000 1400	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0	<10 <10 <10	<1.0 <1.0	<1.0 <1.0 <1.0	\$00 110 78 25 16 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	24	(0.10	<pre><0.10</pre>	<0.10 <0.10 <0.10 <0.10 <0.10 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	<1.0 <1.0 <1.0 8.3 64 <1.0 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	\$50 <1.0 24 20 <1.0 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	1100 <1.0 59 51 30 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	<10 <10 <10 <10 <10 <10 <10 <10 <10 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00	6:00	780 100 120	68 18 110 29 29 20 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	<1.0 360 <1.0 37
Bencame Tabures Ethylitesteene gints Sylvene D-Nylvene D-Nylvene D-Nylvene PCEA PCE congener E1 PCE congener E1 PCE congener E1 PCE congener E1 PCE congener E1 PCE congener E1 PCE congener E1 PCE congener E1 PCE Congener E1 PCE Congener E1 PCE Congener E1 PCE Congener E1 PCE Congener E1 PCE Congener E1 PCE Congener E1 PCE Congener E1 PCE Congener E1	15 (57) 15 (14) 14 (14) 15 (15) 15 (14) 15 (15	3.40 3 19	2.1	<1.0 <1.0 <1.0	<10 <10 <10	<1.0 <1.0 <1.0	<1.0 <1.0 <1.0	9700 1000 1400	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0	<10 <10 <10	<1.0 <1.0	<1.0 <1.0 <1.0	800 110 78 25 16 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	24	(0.10	(0.10	<0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	<1.0 <1.0 <1.0 8.3 64 <1.0 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	950 <1.0 24 20 <1.0 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	1100 <1.0 59 51 30 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	6700 1 <1.0 1 510 2 46 32 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	780 100 120	68 18 110 29 29 29 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	<1.0 360 <1.0 37
Bencame Tolures Tolures Ethyliterizene gfm. 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Between Tallower Tall	18 (1971) 18 (19	1 40 1 1 1 2 1 2 1 3 1 3 1 4 1 4 1 5 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	2 21 14 7 7	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<10 <10 <10 <10 <10 <10 <10 <10 <	9700 1000 1400 120 60 	\$10 \$110 \$110 \$110 \$110 \$110 \$110 \$110	<pre><1.0 <10 <10 <10 <10 <10 <10 <10 <10 <</pre>	<10 <10 <10 <10 <10 <10 <10 <10	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	\$00 110 78 25 16 *0010 *	24	(0.10										

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MAC. This paremeter is the Environmental Quality Standard expressed as a maximum allowable concertation (MAC EQS). Where the MAC EQS are marked as "not applicable", the AR-EQS values are considered protective against short-term publisher pasks in continuous discharges since they are applicantly lower than the values deviced on the basis of acceptables).

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Groundwater Screening Round 2 – CIW

Determinands			MBAT PNEC (ug/l)	BH677	BH678	BH679
Arsenic (diss.filt)		μg/l 50 (AA) (1) 25 (AA (2)		4.1	5.8	2.3
		1000 (5)		310 140	430	290 120
Barium (diss.filt) Berylium (diss.filt)		700 (8)		140 <1.0	91 <1.0	120 < 1.0
Cadmium (diss.filt)	0.09 (AA) & 0.6 (MAC) (1) 0.6 (AA) (2)	CaCO _s 50 - <100 mg/l		< 0.11	< 0.11	< 0.11
Chromium (diss.filt) Copper (diss.filt)		50 (5) A) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94	3.1 0.6	0.63	1.1 0.66
Iron (diss.)	1 (40		34.54	5300	2 58	930
Mercury (diss.filt) Manganese (diss.filt)		0.07 MAC (18.2) 123 (AA) (*********************************	276.92	< 0.05 3600	< 0.05 810	< 0.05 920
Molybdenum (diss.filt) Nickel (diss.filt)	gheenst	70 (8) *1 (AA) (1), 8.6 (AA) (2), 34 (MAC) (182)	14 98	1.3	2.4	180
Nickel (diss.filt) Lead (diss.filt)	1.2	*** (AA) (1), E.6 (AA) (2), 34 (MAC) (182) *** ¹ (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	14.98 9.64	< 0.50	9.7 < 0.50	< 0.50
Antimony (diss.filt) Selenium (diss.filt)		5 (5) 10 (5)		< 0.50 < 0.50	0.61 < 0.50	0.84 < 0.50
Zinc (diss.filt)	10.9 (AA) (1) +ABC biographiable 6.8 (AA) (2) +ABC (her Note 2)	37.15	3.1	71	10
Iron (Total) Manganese (Total)				7300 4900	240 18000	1500 1100
Manganese (II) Manganese (IV)				1100 3600000	3500 810000	480 2500000
Iron [II]				< 20	< 20	< 20
Iron [III] Chromium II (diss.filt)		4.7 (AA) (1) 95thSile (32) (AA) (1), 0.6 (AA) (2), 32 (95thSile) (2)		5300 < 20	58 <20	2300 < 20
Chromium W (diss.filt) Phanols	3.4 ((AA) (1), 0.6 (AA) (2), 32 (95th%lie) (2)		< 0.10	< 0.10	< 0.10
1-Naphthol				< 0.0050	< 0.0050	< 0.0050
Trimethylphenols Cresols				< 0.0050 < 0.0050	< 0.0050 < 0.0050	< 0.0050 < 0.0050
Phenol Resprainal				0.008	< 0.0050	< 0.0050 < 0.0050
Xylenols				0.15	0.086	0.11
Speciated TPH		7.7 (182) 46 (95th%ile) (182) eg/l			-	
Alighatics ECCS-C6		15000 (7)	_	< 0.10	< 0.10	< 0.10
EC CS-C6 EC:C6-C8 EC:C8-C10		15000 (7) 300 (2)		< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10
EC>C10-C12		300 (7)		< 0.10	< 0.10	< 0.10
EC+C12-C16 EC+C16-C21		300 (7)		< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10
EC+C21-C35 EC+C35-C44				< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10
Total Aliphatics >C5-C35				<5.0	<5.0	< 5.0
Aromatics EC CS-C7		10 (7)		< 0.10	< 0.10	< 0.10
EC:C7-C8 EC:C8-C10		700 (7) 300 (7)		< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10
EC>C10-C12		90 (7)		< 0.10	< 0.10	< 0.10
EC>C12-C16 EC>C16-C21		90 (7) 90 (7)		< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10
E0:021:035 E0:035:044		90 (7)		< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10
Total Aromatics >ECS-EC35 Total Aliphatics & Aromatics >CS-3				< 5.0 < 10	<5.0 <10	< 5.0 < 10
BTEX/MTBE/GRO		цул		- 100		
MTBE Benzene	10	15 (5*) (AA) MAC 50 (1), 8 (AA) MAC 50 (2)		< 1.0 17	<1.0 <1.0	< 1.0 < 1.0
Toluene Ethylbenzene	74 (AA) 22	Sth76le (380) (1), 74 (AA) 95th/6le (370) (2)		< 1.0	< 1.0	< 1.0
				£10	<10	
p/m-Xylene		300 (6)		<1.0 <1.0	< 1.0 < 1.0	< 1.0 < 1.0
g/m-Xylene o-Xylene PCts		300 (8) µg/l		< 1.0	< 1.0	<1.0 <1.0 <1.0
p/m-Xylene o-Xylene PCts PCS conserier 81		300 (8)		<1.0 <1.0	< 1.0 < 1.0	< 1.0
p/m-Xylene o-Xylene PCBs PCB congener 81 PCB congener 77 PCB congener 105		300 (8)		<1.0 <1.0	< 1.0 < 1.0	< 1.0
g/m-Xylene o-Xylene pCo: PCS congener 81 PCS congener 77 PCS congener 105 PCS corgener 114 PCS corgener 114		300 (8)		<1.0 <1.0	< 1.0 < 1.0	< 1.0
g/m-Xylene o-Xylene PCEs PCEs PCEs ongener 31 PCE congener 77 PCE congener 105 PCE congener 114 PCE congener 118 PCE congener 129 PCE congener 129 PCE congener 120		300 (8)		<1.0 <1.0	< 1.0 < 1.0	< 1.0
p/m-xylene o-xylene o-xylene sFCb PCB congener 81 PCB congener 105 PCB congener 105 PCB congener 114 PCB congener 114 PCB congener 113 PCB congener 123 PCB congener 123 PCB congener 126 PCB congener 126 PCB congener 126		300 (8)		<1.0 <1.0	< 1.0 < 1.0	< 1.0
g/m-Xylene o-Xylene FCb FC congener 31 PCB congener 27 PCB congener 105 PCB congener 115 PCB congener 125 PCB congener 128 PCB congener 128 PCB congener 129 PCB congener 129 PCB congener 129 PCB congener 159 PCB congener 159 PCB congener 157 PCB congener 157 PCB congener 157		300 (8)		<1.0 <1.0	< 1.0 < 1.0	< 1.0
pfm-Xylene o-Xylene FCb PC congener 31 PCB congener 31 PCB congener 17 PCB congener 17 PCB congener 17 PCB congener 17 PCB congener 17 PCB congener 17 PCB congener 17 PCB congener 17 PCB congener 17 PCB congener 17 PCB congener 17 PCB congener 17 PCB congener 17 PCB congener 17 PCB congener 16 PCB congener 17 PCB congener 17 PCB congener 18 PCB con		300 (8)		<1.0 <1.0	< 1.0 < 1.0	< 1.0
g/m-Xylene o-Xylene FCb FC congener 31 PCB congener 27 PCB congener 105 PCB congener 115 PCB congener 125 PCB congener 128 PCB congener 128 PCB congener 129 PCB congener 129 PCB congener 129 PCB congener 159 PCB congener 159 PCB congener 157 PCB congener 157 PCB congener 157		30(1)		<1.0 <1.0	< 1.0 < 1.0	< 1.0
gith Nylesse o-Nylesse Fixes F		300 (8)		<10 <10 <10 - - - - - - - - - - - - - - - - - - -	<1.0 <1.0 <1.0 <1.0 	<1.0 <1.0
pfin Nylese o-Nylese FCEs PES congener E1 PES congener E1 PES congener E1 PES congener E1 PES congener E1 PES congener E1 PES congener E1 PES congener E1 PES congener E1 PES congener E1 PES congener E2 PES congener E3 PES congener E3 PES congener E3 PES congener E3 PES congener E3 PES congener E3 PES congener E3 PES congener E3 PES congener E3 PES congener E3 PES congener E3 PES congener E3 PES congener E3 PES congener E3 PES congener E3 PES congener E3 PES congener E3 PES congener E3 PES E3 PE		30(1)		<10 <10 <10 <10 <10 <	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
grin Nylona o Nijone PER S. K. S. PER S. K. S. PER S. K. S. PER S. S. S. S. PER S. S. S. S. PER S. S. S. S. PER S. S. S. S. PER S. S. S. S. PER S. S. S. S. PER S. S. S. S. PER S. S. S. PER S. S. S. PER S. S. S. PER S. S. S. PER S. S. S. PER S. S. S. PER S. S. S. PER S. S. S. PER S. S. S. PER S. S. S. PER S. S. S. PER S. S. PER S. S. PER S. S. PER S. S. PER S. S. PER S		2 (AA) (1 A) (2 A)		<10 <10 <10 <10 <10 <	<1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
glm Sylone Differen K.Ch. 11. Fill compared 70. Fill compared 10.		300 (E) ppl 21A1 (E 2/210 (MA 142)		<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
grin Sylone ON/men ON/men ON/men FCE Compared E1 FCE Compared E2 FCE Compared E3 FCE Compared E3 FCE Compared E3 FCE Compared E3 FCE Compared E3 FCE Compared E3 FCE Compared E3 FCE Compared E3 FCE Compared E3 FCE Compared E3 FCE Compared E3 FCE Compared E3 FCE Compared E3 FCE Compared E3 FCE Compared E3 FCE Compared E3 FCE Compared E3 FCE Compared E3 FCE E3		2 (AA) (1 A) (2 A)		<10 <10 <10 <10 <10 00 <10 00 00 00 00 00 00 00 00 00 00 00 00 0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<.10 <110 <110 <110 <110 <110 <110 <110
gift Spiese o Stylene o Stylene o Stylene o Stylene St Congene 12 FE Con		200 (E) 200 (A) 2100 (A) 2100 (A) 2100 (A) 2100 (A) 2100 (A) 2100 (A) 2100 (A) 2100 (A) 2100 (A) 2100 (A) 2100 (A) 2100 (A) 2100 (A) 2100 (A)		<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<1.0 <1.0 <1.0 </td
gen bytes Danye Andrew Andrew PE congres 19 Percentage 19 Pe		300 (E) 2(AA) (E A2) 120 (MA (EA) 2(AA) (E A2) (MA (EA		<10 <10 <10 <10 <10 0000000000000000000	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<pre></pre>
gelm Sylves D Nyme D Nyme PCE Congener 23 PCE Congener 24 PCE Congener 26 PCE Congener 26 PCE Congener 26 PCE Congener 26 PCE Congener 26 PCE Congener 26 PCE Congener 26 PCE Congener 26 PCE Congener 26 PCE Congener 27 PCE Congener 27 PCE Congener 28 PCE Congener 28 PCE Congener 28 PCE Congener 28 PCE Congener 28 PCE Congener 28 PCE Congener 28 PCE Congener 28 PCE Congener 28 PCE Congener 28 PCE Congener 28 PCE CONGENER		204) (1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		<110 <110 <110 <110 <100 <100 <100 <100	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<10 < 10 < 10 < 10 < 10 < 10 < 10 < 10
ann plane Banger R Gorge	0.0001	300 (E) 960 2 (AA) (E M) 12 (MAC EA) 2 (A		<pre><10 <10 <10 <10 <10 <10 <10 <10 <10 <10</pre>	<10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	<0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <
gin Sales. Service S. Congres E. S. Congres	0.0001	300 (E) 940 97(A) (E A) (100 (MAT 1A2) 97(A) (E A) (100 (MAT 1A2) 5.51 (A) (A A) (A) (A A) (A) (A A) (A) (A) (<110 <110 <110 <110 <100 <100 <100 <100	<110 <110 <110 <110 <110 <110 <110 <110	<pre><10 <10 <10 <10 </pre>
gen Salves Bridge Bridge Bridge Fix Groupper 13 Fix Groupper 15 Fix	0.0001	300 (E) 960 2 (AA) (E M) 12 (MAC EA) 2 (A		<pre><10 <10 <10 <10 <10 <10 <10 <10 <10 <10</pre>	<10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	<0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <
gen harves Fig. 19	0.0001	2 (AA) (2 A)		<pre><10 <10 <10 <10 <10 <10 <10 <10 <10 <10</pre>	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<pre><10 <10 <10 </pre> <pre><10 <10 </pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre><0000 <0000 <0000 <00000 <0000 <0000 <00000 <0000 <00000 <00000 <0000 <0000 <0000 <000</pre></pre></pre>
gin sidnes Bridge Bridge Richter Ri	0.0001	2 (AA) (2 A)		<10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<pre><10 <10 <10 <10 <10 <10 <10 <10 <10 <10</pre>	<pre><1.0 <1.0 </pre> <pre><1.0 </pre> <pre></pre>
gin Salese Annie Salese Anni	0.0001	2 (AA) (2 A)		4.10 4.10 4.10 4.10 4.10 4.10 4.10 4.10	110 110 110 110 110 110 110 110 110 110	<pre><1.0 <1.0 <1.0 </pre> <pre></pre>
gin sidnes Bridge Bridge Fix Grouper Bridge	0.0001	\$10 (E) \$10 (E) \$10 (E) \$2 (AN) (E \$2.75 AM TAL) \$2 (AN) (E \$2.75 AM TAL) \$3 (AN TAL) \$3 (AN TAL) \$3 (AN TAL) \$4 (- 1.00 -	<pre></pre>	<pre><1.0 <1.0 <1.0 </pre> <pre></pre>
gin Salore Anne S	400	\$10 12 20 12 20 12 20 20		4.10 4.10 4.10 4.10 4.10 4.10 4.10 4.10	110 110 110 110 110 110 110 110 110 110	<pre><120 <120 <120 <</pre>
ann haires Archae Ar	0.0001	\$10 (E) \$10 (E) \$10 (E) \$2 (AN) (E \$2.75) \$2 (AN) (E \$2.75) \$3 (AN) (E \$1.100 (MAC SE) \$3 (AN) (E \$1.100 (MAC SE) \$3 (AN) (E \$1.100 (MAC SE) \$3 (AN) (E \$1.100 (MAC SE) \$4 (AN) (E \$1.100 (MAC SE) \$4 (AN) (E \$1.100 (MAC SE) \$5 (AN) (E \$1.100 (MA		4.10 4.10 4.10 4.10 4.10 4.10 4.10 4.10	110 110 110 110 110 110 110 110 110 110	<pre><1.0 <1.0 <1.0 </pre> <pre></pre>
ann haires Archae Ar	400	## ## ## ## ## ## ## ## ## ## ## ## ##		4.10 4.10 4.10 4.10 4.10 4.10 4.10 4.10	110 110 110 110 110 110 110 110 110 110	<pre><1.0 <1.0 <1.0 </pre> <pre></pre>
ann haires Ann ha	0.3(1)	300 (E) 2 (AA) (E A-1) A (AA) (AA) 2 (AA) (E A-1) A (AA) (AA) 2 (AA) (E A-1) A (AA) (AA) 2 (AA) (E A-1) A (AA) (AA) 2 (AA) (E A-1) A (AA) (AA) 2 (AA) (E A-1) A (AA) (AA) 2 (AA) (AA) (AA) 2 (AA) (AA) (AA) 2 (AA) (AA) (AA) (AA) 2 (AA) (AA) (AA) (AA) 2 (AA) (AA) (AA) (AA) 2 (AA) (AA) (AA) (AA) (AA) 2 (AA) (AA) (AA) (AA) (AA) (AA) 2 (AA) (AA) (AA) (AA) (AA) (AA) (AA) 3 (AA) (AA) (AA) (AA) (AA) (AA) (AA) (AA			4.05	(110 (110 (110 (110 (110 (110 (110 (110
and stores The Section of the Secti	0.3(1)	300 (E) 900 900 2100 (E) 110 (MAC 18) 2100 (E) 110 (MAC 18) 61 (PA 8 MAG (1 8) 6217 (MAG (18) 6227 (MAG			4.10	(10 (10 (10 (10 (10 (10 (10 (10 (10 (10
gin Salore Tricks Tr	0.3(1)	300 (E) 2 (AA) (E A-1) A (AA) (AA) 2 (AA) (E A-1) A (AA) (AA) 2 (AA) (E A-1) A (AA) (AA) 2 (AA) (E A-1) A (AA) (AA) 2 (AA) (E A-1) A (AA) (AA) 2 (AA) (E A-1) A (AA) (AA) 2 (AA) (AA) (AA) 2 (AA) (AA) (AA) 2 (AA) (AA) (AA) (AA) 2 (AA) (AA) (AA) (AA) 2 (AA) (AA) (AA) (AA) 2 (AA) (AA) (AA) (AA) (AA) 2 (AA) (AA) (AA) (AA) (AA) (AA) 2 (AA) (AA) (AA) (AA) (AA) (AA) (AA) 3 (AA) (AA) (AA) (AA) (AA) (AA) (AA) (AA		+ 10	110 110 110 110 110 110 110 110 110 110	(12) (12) (13) (14) (15) (16) (17) (17) (17) (17) (17) (17) (17) (17

1. The Water Tementan Distraction privately substances and Classification (Inguistics (Inguistics and Classification (Inguistics (Inguistics (Inguistics and Classification) (Inguistics) (Inguistics) (Inguis

MAC. This parenter in the Environmental Cuality Standard expressed as a maximum allowable concentration (MAC-EOS) Where the MAC-EOS are marked as "not applicable", the AA-EOS values are considered protective against short-term published protective against short-term published protective against short-term published published protective against short-term published published protective against short-term published published protective against short-term published published protective against short-term published

Assessment from the Committee of the Month Encounted Rely Assessment For (MART) of enclosed by WFOTAL Look at experie specific assessment using the MART for alth part COCO and be derived. COCO intered to the Ref CoCoco and the Section of the Section of the Section of the Mart Tool with the CoCoco and the Mart Tool of the Section of the Mart Tool of the Section of the Mart Tool of the Section of the Mart Tool of the Section of the Mart Tool of the Section of the Mart Tool of the Section of the Mart Tool of the Section of the Mart Tool of the Section of the

Mobuov Road Waste Site Remediation Groundwater (VOC) Screening Round 2 - CIW

		D. 1000	D11074	Dilana	Dilama	Bulana	Bulana			Busses		Bulana	Dilana	Dilama		PUARA			Dilama
	TSV	BH665	BH674	BH672	BH671	BH666	BH668	BH659S	BH659D	BH660A	BH667	BH669	BH670	BH673	BH675	BH676	BH677	BH678	BH679
VOC's	ug/l																		
Dichlorodifluoromethane		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chloromethane		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Vinyl chloride	0.5 (5)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Bromomethane		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroethane		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,1-Dichloroethene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
trans-1,2-Dichloroethene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,1-Dichloroethane											< 0.10								
cis-1,2-Dichloroethene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Bromochloromethane		< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50			< 0.50
Trichloromethane 1,1,1-Trichloroethane	100 (4)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,1,1-Irichloroethane Tetrachloromethane	100 (4)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,1-Dichloropropene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)	800	290	< 0.10	150	< 0.10	< 0.10	< 0.10	950	1100	< 0.10	6700	780	68	< 0.10		< 0.10 17		< 0.10
Benzene 1.2-Dichloroethane	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)	< 0.20	< 0.20	< 0.10	< 0.20	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.10	< 0.10
Trichloroethene	10 (AA)(1&2)	< 0.20	< 0.10	< 0.20	< 0.10	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10
1,2-Dichloropropane	10 (5)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibromomethane		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Bromodichloromethane		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1.3-Dichloropropene		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)	110	24	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	100	< 1.0 18	< 0.10	360	< 0.10	< 0.10	< 0.10
trans-1,3-Dichloropropene	74 (AA) 55ti /sile (300) (1), 74 (AA) 55ti /sile (370) (2)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1.1.2-Trichloroethane	300 (2), 400(1)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tetrachloroethene	10 (1 &2)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,3-Dichloropropane	10 (1 412)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Dibromochloromethane		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1.2-Dibromoethane		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1.1.1.2-Tetrachloroethane		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Ethylpenzene	300 (7)	78	27	< 0.10	< 0.10	< 0.10	< 0.10	8.3	24	59	< 0.10	510	120	110	< 0.10	37	< 0.10	< 0.10	< 0.10
m,p-Xylene		25	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	64	20	51	< 0.10	46	14	29	< 0.10	26	< 0.10	< 0.10	< 0.10
o-Xylene		16	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	30	< 0.10	32	11	29	< 0.10	19	< 0.10	< 0.10	< 0.10
Styrene	20 (5)	290	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	100	< 0.10	< 0.10	< 0.10
Tribromomethane	•	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Bromobenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,2,3-Trichloropropane		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
N-Propylbenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2-Chlorotoluene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,3,5-Trimethylbenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
4-Chlorotoluene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
tert-Butylbenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,2,4-Trimethylbenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
sec-Butylbenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,3-Dichlorobenzene	<u> </u>	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
4-iso-Propyltoluene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,4-Dichlorobenzene	<u> </u>	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
n-Butylbenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,2-Dichlorobenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,2-Dibromo-3-chloropropane		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2,4-Trichlorobenzene		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachlorobutadiene	0.6 (MAC) (1,2)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,2,3-Trichlorobenzene	0.4 (1,2)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Methyl tertiary butyl ether (MTBE)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Heland) 2015 Freshwater
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Heland) 2015 transitional
 valets.
 3. Geoundwater Directiving Water Protected Areas - The Fiver Basin Districts Typology, Standards and Groundwater
 threshold values (Water Framework Directive) (England and Wates) Directions 2010
 4. Freshmate ECS (AN)
 5. Un Chinology Water Substance)
 5. Un Chinology Water Ganzaded

Mobilov Road Waste Site Remediation Groundwater (SVOC) Screening Round 2 - CIW

	TSV	BH665	BH674	BH672	BH671	BH666	BH668	BH659S	BH659D	BH660A	BH667	BH669	BH670	BH673	BH675	BH676	BH677	BH678	BH679
SVOC's	ug/l	511000	211014	511072	Bilori	21.000	D11000	Dilosso	5110005	Briodox	211001	511000	511070	5.10.0	211070	511070	211077	211070	511070
N-Nitrosodimethylamine		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Phenol	7.7 (1&2) 46 (95th%ile) (1&2)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	3.7	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Chlorophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Bis-(2-Chloroethyl)Ether		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1,3-Dichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1,4-Dichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1,2-Dichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Methylphenol (o-Cresol)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050	4.2	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050
Bis(2-Chloroisopropyl)Ether		< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050	< 0.050		< 0.050		< 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050		< 0.050 < 0.050	< 0.050 < 0.050
Hexachloroethane N-Nitrosodi-n-propylamine		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050	< 0.050
4-Methylphenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	4.5	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Nitrobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Isophorone		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Nitrophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4-Dimethylphenol		< 0.050	0.79	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Bis(2-Chloroethoxy)Methane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4-Dichlorophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1,2,4-Trichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Naphthalene	2.4 (1) 1.2 (2)	380	12	0.68	23	3.6	0.73	6.8	370	2000	0.75	2000	92	2300	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4-Chloroaniline		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachlorobutadiene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4-Chloro-3-Methylphenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Methylnaphthalene		6	3	< 0.050	< 0.050	0.45	< 0.050	0.47	14	85	0.23	51	0.25	7.7	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachlorocyclopentadiene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4,6-Trichlorophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,4,5-Trichlorophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Chloronaphthalene	160	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Nitroaniline		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Acenaphthylene		80	86	0.73	3.1	5.3	1	0.85	48	520	0.54	370	4.9	250	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Dimethylphthalate		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2,6-Dinitrotoluene		< 0.050	1.2	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Acenaphthene		7.2	6	< 0.050	2.4	< 0.050	0.27	1.6	60	80	0.23	44	2.8	4.9	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
3-Nitroaniline Dibenzofuran		< 0.050 2.4	< 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 0.19	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 5.7	< 0.050 34	< 0.050 < 0.050	< 0.050 8.7	< 0.050 < 0.050	< 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050
4-Chlorophenylphenylether		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2.4-Dinitrotoluene		< 0.050	1.8	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	1.5	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Fluorene		3.7	1.9	0.18	0.26	0.64	< 0.050	0.5	9.7	63	0.11	12	0.26	2.9	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Diethyl Phthalate		0.83	1.5	0.94	0.49	0.2	1.9	0.42	1.7	0.8	0.75	< 0.050	1	1.9	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4-Nitroaniline		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Methyl-4,6-Dinitrophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Azobenzene		< 0.050	< 0.050	1.1	1.1	0.76	1.2	1.8	1.4	0.67	0.31	< 0.050	1.1	10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4-Bromophenylphenyl Ether		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.3	< 0.050	< 0.050	0.46	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hexachlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Pentachlorophenol	0.4 (AA) & 1 (MAC) (1&2)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Phenanthrene		4.2	0.85	0.49	0.57	0.65	0.36	0.6	8.3	67	0.41	8.2	0.46	1.7	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Anthracene	0.1 (MAC 0.4) (1 & 2)	0.79	0.69	0.23	0.21	0.17	0.11	0.1	1.2	3.7	0.12	1.6	< 0.050	0.92	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Carbazole		6.5	17	0.12	1.7	0.73	0.38	0.19	5.1	17	0.21	11	5.5	75	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Di-N-Butyl Phthalate		< 0.050	< 0.050	< 0.050	0.76	< 0.050	0.69	0.46	< 0.050	< 0.050	0.92	0.24	0.77	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Fluoranthene	0.0063 (AA) & 0.12 (MAC) (1&2)	1.3	0.23	0.17	0.14	0.24	0.18	0.2	1.8	3.4	0.22	1.9	0.21	0.38	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Pyrene		1.7	0.39	0.11	0.16	0.38	0.17	0.29	2.5	4.2	0.2	2.4	0.25	0.5	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Butylbenzyl Phthalate		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[a]anthracene		< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	0.22 0.21	< 0.050 < 0.050	0.08	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050
Chrysene	10(100)																		
Bis(2-Ethylhexyl)Phthalate	1.3 (1&2)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050
Di-N-Octyl Phthalate		< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050	< 0.050 < 0.050
Benzo[b]fluoranthene Benzo[k]fluoranthene		< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[k]nuorantnene Benzo[a]pyrene	0.05 (MAC 0.1) (1 & 2)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Indeno(1,2,3-c,d)Pyrene	U.U3 (MMC U.1) (1 & 2)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Dibenz(a,h)Anthracene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[g,h,i]perylene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4-Nitrophenol		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4-Milliophenoi		< 0.000	< 0.000	< 0.000	< U.UUU	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000	VCU.U >	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 fransistonal waters.
 Groundwater frinking Water Protected Areas: The River Basin Districts Typology, Standards and Groundwater threshold values (Water Framework Directive) (England and Wales) Directions 2010
 A Freishwater ECS (SAM)
 A Freishwater ECS (SAM)
 That That PAH = Sum of 4: Benzo(b) & (Iv) fluoranthere, Indenot (123cd)pyrene, Benzo(ghi)perylene
 T. WHO (World Health Organisation) - Petroleum Products in Drinking Water, Background document for development of WHO Guidelines for Drinking Water Quality, WHO

Groundwater Screening Round 2 - CS G

Sample Point / Determinands	TSV	(ug/l)	BH401	BH206	BH404	BH409	BH410	BH402S	BH402D	BH403	BH411	BH626	BH628	BH627	BH630	BH629	BH632	BH201	BH625	BH663B	BH662	BH664	BH661	BH658	BH656 B	BH657
HEAVY METALS	рgi																									
Arsenic (diss.filt) Boron (diss.filt)	50 (AA) (1) 25 (AA (2) 1000 (5)			7.5	-	1.8	4.3				1.5 840		-	-			0.45 720	28 670	18 960		< 0.20 46	1.6 200	6.4 230	0.6 79	1.9 840	2.5 180
Barium (diss.filt)	700 (8)		-	110		80	160	-			38			-		-	120	150	97		44	37	53	88	270	170
Beryllum (diss filt)	0.09 (AA) & 0.6 (MAC) (1) 0.6 (AA) (2) CaCO ₁ 50 - <100 mg/l			< 1.0		< 1.0	< 1.0				< 1.0						< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cadmium (diss filt) Chromium (diss filt)	50 /5			2.6		0.81	< 0.50	-		-	0.15 2.1	-	- :			-	< 0.11	< 0.11	< 0.11		< 0.11 4.4	< 0.11 8.7	< 0.11	< 0.11		< 0.11 7.5
Copper (diss.filt)	1 (AA) bioavallable (see Note 1) (1) (see Note 4) (2)	34.94	-	0.51		0.87	0.62				1.5						1.5	2.7	2.5		3	24	4.7	2.1	4.2	7.7
Iron (diss.)	1000 (AA) (182) 0.07 MaC (182)			13000		16000	11000				3100						3200	11000	62000		19	350	21000	44	15000	2500
Mercury (diss.filt) Mangarese (diss.filt)	0.07 MAC (182) 123 (AA) (see note 1)	276.92		< 0.05 4300		< 0.05	< 0.05				< 0.05 170		-				< 0.05	< 0.05 2300	< 0.05 4600	-	< 0.05 780	< 0.05	< 0.05 6100	< 0.05 2100	< 0.05 4	< 0.05
Molybdenum (diss.filt)	70 (8)	270.92		0.38	-	0.37	1.2	-	-	-	1.1						0.52	2.4	0.66	- :	0.48	2.2	3.8	0.99	2.1	5000 3.7
Nickel (diss.filt)	4 ^(see note S) (AA) (1), 8.6 (AA) (2), 34 (MAC) (182)	14.98		21		21	47				6						3.7	21	10		4.2	12	4.6	3.5	10	23
Lead (diss.filt)	1.2 ^(see note 5) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64		< 0.50		F	0.66				1.1						0.94	2	5.2		< 0.50	7.4	2.5	< 0.50	1	0.96
Antimony (diss.fit) Selenium (diss.fit)	5 (5) 10(5)		_	< 0.50	-	< 0.50	< 0.50	-	-		< 0.50	- :	- : -	- :	- :	-	< 0.50	< 0.50	< 0.50	- :	< 0.50	1.2 < 0.50	< 0.50			< 0.50 0.94
Zinc (diss.fit)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (see Note 2)	37.15	-	65		42	34				93						21	26	35		10	120	160	16		160
Iron (Total) Magnanese (Total)			34000 6700	13000	11000	16000	12000	79000 42000	400 21000	40000 1800	3100 180	27000 37000	2500 1100	13000 11000	1400 12000	670 9800	3100 6300	11000 2300	61000 4400		210 770	3000 170	27000 6500	1800 2300	20000	4500 6000
Manganese (Total) Manganese (II)			6700 5000	4400 3900	12000	15000 5200	17000 6300	42000 32000	21000 18000	1800 450	180	37000 1200	1100	11000	12000 390	9800	6300 540	2300 480	4400 310	3600 3700	770 140	170	6500 2100	2300 450		6000 580
Manganese [IV]			1900	400	6000	9800	11000	10000	3000	1500	< 1.0	3700000	1100000	11000000	12000000	9800000	6200000	2300000	4600000	560	640	110	4000	1600	4700	4400
iron [II]			< 20	< 20	< 20	< 20	< 20	11000	< 20	< 20	< 20	4100	< 20	3500	390	< 20	< 20	640	8500	130	< 20	30	7200	60		60
Iron [III] Chromium III (diss.filt)	4.7 (AA) (1) 95thhile (32)		34000	13000	11000	16000	11000	68000	400	40000	3100	23000	2500	9900	1000	650	3200	11000	53000	34	< 20	320	14000	< 20	11000	2400 < 20
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%lie) (2)			< 0.10		< 0.10	< 0.10	-	-		1.1		- :	- :	- :	-	< 0.10	< 0.10	< 0.10	- :	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenois	ugl																									
1-Naphthol Trimethylphenols		+ +				_	-		-	-		-		- :	- :		- : -		_	1 :	< 0.0050	< 0.0050	-	-:-	-:	-
Cresols								<u> </u>	<u> </u>	<u> </u>	L i	Li.									< 0.0050	0.009	Li.	Li.		
Phenol Resproint		$\perp = $	_	-			_			-	-		-		-	_				-	< 0.0050	< 0.0050	-		-	
Yulonole		 		-			-		-	-	-			-:-	- :					- :	< 0.0050	< U.0050 0.007			-	-
Phenois, Total	7.7 (1&2) 46 (95th%lie) (1&2)			< 0.030		< 0.030	0.047				< 0.030	0.19	< 0.030	< 0.030	< 0.030	0.32	< 0.030	< 0.030	< 0.030		< 0.030		1	0.14	< 0.030	1.6
Speciated TPH Allohatics	ug1																									
EC C5-C6	15000 (7)	1 - 1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C6-C8	15000 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C8-C10 EC>C10-C12	300 (7) 300 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	10 97	< 0.10	< 0.10	< 0.10	17 28	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10
EC>C12/C16	300 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	98	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C16-C21			< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EGsG21-G35 EGsG35-G44			< 0.10	< 0.10	250 < 0.10	< 0.10	190 < 0.10	< 0.10	220 < 0.10	150 < 0.10	< 0.10	210 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	110 <	< 0.10 < 0.10
Total Aliphatics >C5-C35			< 5.0	< 5.0	250	< 5.0	190	< 5.0	220	150	< 5.0	210	< 5.0	< 5.0	< 5.0	210	< 5.0	< 5.0	< 5.0	46	< 5.0	< 5.0	< 5.0	< 5.0	120	< 5.0
Aromatics																										< 0.10
EC 05:07 F0x07:08	10 (7) 700 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10 <	< 0.10
EC>C8-C10	300 (7)		< 0.10	< 0.10	230	< 0.10	< 0.10	< 0.10	200	< 0.10	< 0.10	93	< 0.10	< 0.10	< 0.10	120	< 0.10	< 0.10	< 0.10	120	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
EC>C10-C12	90 (7)		< 0.10	< 0.10	560	< 0.10	270	< 0.10	560	140	< 0.10	310	< 0.10	< 0.10	< 0.10	79	< 0.10	< 0.10	< 0.10	230	< 0.10	< 0.10	< 0.10	< 0.10	50 <	< 0.10
EC>C12-C16 EC>C16-C21	90 (7)		< 0.10	< 0.10	17 < 0.10	< 0.10	10 c 0 10	< 0.10	< 0.10	95 < 0.10	< 0.10	340 100	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	49	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
EC>C21-C35	90 (7)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
EC>C35-C44 Total Aromatics >EC5-EC35			< 0.10 < 5.0	< 0.10 < 5.0	< 0.10 920	< 0.10	< 0.10 280	< 0.10 < 5.0	< 0.10 920	< 0.10 240	< 0.10 < 5.0	< 0.10 840	< 0.10 < 5.0	< 0.10 < 5.0	< 0.10 < 5.0	< 0.10 230	< 0.10	< 0.10 < 5.0	< 0.10 < 5.0	< 0.10 400	< 0.10	< 0.10 < 5.0	< 0.10 < 5.0	< 0.10 < 5.0	< 0.10 <	< 0.10 < 5.0
Total Alphatics & Aromatics >C5-35			< 10	< 10	1200	< 10	470	< 10	1100	390	< 10	1100	< 10	< 10	< 10	440	< 10	< 10	< 10	440	< 10	< 10	< 10	< 10	180	< 10
BTEX.MTBE/GRO	μgl																									
MTBE Bergere	15 (5°) 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 8.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 8.30	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		< 1.0	< 1.0	790	1.7	8.8	1.1	1100	< 1.0	< 1.0	30	< 1.0	< 1.0	< 1.0	620	< 1.0	< 1.0	2.4		< 1.0	< 1.0	79	< 1.0		< 1.0
Ethy/berzene	300 (8)		< 1.0	< 1.0	750	< 1.0	9.7	< 1.0	21	< 1.0	< 1.0	1700	< 1.0	< 1.0	< 1.0	1600	< 1.0	1.4	15		< 1.0	< 1.0	1.2	< 1.0	1	< 1.0
p/m-Xylene o-Xylene			< 1.0 < 1.0	< 1.0 < 1.0	34 20	< 1.0	5.4	< 1.0	28	< 1.0	< 1.0	27	< 1.0	< 1.0	< 1.0	140 88	< 1.0	< 1.0	5.1		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Polyaromatic Hydrocabons	μgl		C 1.0		20		0.0	C 1.0	2.0	€ 1.0																
Naphthalene (aq)	2 (AA) (1 82) 130 (MAC 182)		-	2.4		< 0.010	89				0.88	130 7.6	< 0.010	< 0.010	< 0.010	8.5 27	< 0.010	2.2 < 0.010	33 < 0.010	61 < 0.010	< 0.010	< 0.010	0.72	0.51	0.9	0.33
Acenaphthene (aq)				< 0.010	-	< 0.010	7.2	-	-	-	< 0.010	20	< 0.010	< 0.010	< 0.010	3.9	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010			c 0.010
Pluorene (aq)				< 0.010		< 0.010	0.52				< 0.010	1	< 0.010	< 0.010	< 0.010	1.2	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.29	< 0.010 <	c 0.010
Phenanthrene (aq) Anthracene (aq)	0.1 (AA & MAC) (1 & 2)	+		< 0.010		< 0.010	< 0.010	-	-	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010			0.010
Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)			< 0.010		< 0.010	< 0.010				< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 <	c 0.010 c 0.010
Pyrene (aq)		$\perp = =$	-	< 0.010	-	< 0.010	< 0.010			-	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 <	c 0.010
Benzo(a)anthracene (aq) Chrysene (aq)	<u> </u>	+ +		< 0.010	-	< 0.010 < 0.010	< 0.010	-	-	-	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		c 0.010 c 0.010
Benzo(b)fluoranthene (aq)	0.017 (MAC) (182)			< 0.010		< 0.010	< 0.010				< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 <	c 0.010
Berzo (k)fluoranthene (aq) Berzo (alovrene (aq)	0.017 (MAC) (182) 0.00017 (AA) (1 8 2) MAC (0.27 (1) 0.027 (2))	1		< 0.010		< 0.010	< 0.010	-			< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010 <	€ 0.010
Indeno(1,2,3-cd)pyrene (aq)		+ +		< 0.010		< 0.010			-	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010			< 0.010	< 0.010	< 0.010	< 0.010			< 0.010		c 0.010 c 0.010
Dibenzo (a,h(anthracene (aq)				< 0.010		< 0.010	< 0.010				< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 <	c 0.010
Berzo (g,hi)perylene (aq) PAH Total Detected LISEPA 16 (an)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	1		< 0.010		< 0.010	< 0.010	-			< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 61	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.9	0.010
INORGANICS	mgl											150	< 0.20	< 0.20	< 0.20	41	< 0.20			61		< 0.20		1.0		
Dissolved Organic Carbon				220		180	210				59			- :			53	160	87		2.6	6.8	74	8.8		98
Total Inorganic Carbon Total Organic Carbon		-	150	200 310	180	190 180	210 220	170 220	150 200	410 130	98 59	130	41 2.8	38 4.9	31	140	170 54	260 160	160 84	53 16	43 < 2.0	23 6.7	180	130		210 96
Dissolved Methane	<u> </u>		< 0.050	0.55	0.33	0.15	< 0.050	0.35	1.3	0.38	0.68	< 0.050	0.57	< 0.050	< 0.050	< 0.050	0.15	3.1	1.1	0.84	< 0.050	0.14	< 0.050	1.50	1.7	1.6
pH	6-9		-	7.2	-	7.1	7.2	_	_	-	8.1	6.9	7.1	6.8	6.9	7.4	8.2	7.4	6.9		7.4	7.3	7.3	7.4		7.2
Dissolved CO2 Alkalinity (Total)	+	+ + +	110 640	100 850	730	140 800	120 860	180 700	48 610	250 1700	6 410	150 530	30 170	57 160	36 130	52 580	8.7 700	83 1100	160 680	38 220	15	11 97	67 730	44 550		120 880
Chloride	250 (5)		-	180	100	180	200				47						52	290	56		27	26	37	33	200	880 72
Ammonia (Free)	0.3 (1) Types 1,2,4 and 6 (see note 2)	$\perp = =$	-	0.37		0.28	0.34			-	0.36		-		-	-	2.2	1.5	0.3	-	< 0.050	0.075	0.13	0.14	0.45	0.1
Ammonium Nitrite		++	0.1	53 0.098	0.1	55 0.085	54 0.068	0.077	0.097	0.062	6.1 0.048	0.034	0.023	0.037	0.02	0.037	32 0.032	130 0.044	0.041	c 0.020	4.7 0.52	9.6 0.022	< 0.020	13 < 0.020	85 0.02	17 0.14
Nitrate	50 (5)	1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	13	0.034	< 0.50	1.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.020	7.9	< 0.50	< 0.020	< 0.020	< 0.50	< 0.50
Sulphate	250 (5)		4.7	290	55	160	88	23	75	< 1.0	33	11	15	15	66	130	5	20	< 1.0	26	16	30	42	62	24	12
Cyanide (Total) Low-Level Sulphide	0.001 (AA), 0.005 (95%lie) (1&2)	1	< 0.050	< 0.0050 < 0.050	< 0.050	< 0.0050	< 0.0050	< 0.050	< 0.050	< 0.050	< 0.0050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050	< 0.0050		< 0.0050 < < 0.050 <	0.0050 c 0.050
Potassium		1	. 0.000	26		3.3	64				13			. 0.000			26	83	40		1.4	5.8	14	5.4	73	12
Magnesium				51		80	47				26						30	52	30 74		7.4	3.6	37	10	48	44
Sodium	200 (5)	1		150		98	130		1 .		49						140	200	74		14	14	36	16	150	140

The Water Framework Directive (Priority Studences and Dissalfaction (Northern Institute). 2006 (3)
 The Water Framework Directive (Priority Studences and Dissalfaction (Repulsions (Northern Institute). 2015 Featmann.
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3 Featmann (FOLD) (All Control Priority Studences).
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term polition peaks in continuous discharges since they are significantly lower than the values derived on the basis of acoustoology.

The second process against the contract of the

Mobuov Road Waste Site Remediation Groundwater (VOC) Screening Round 2 - CS G

	TSV	BH663B	BH662	BH6
VOC's	ug/l			
Dichlorodifluoromethane	· · · · · · · · · · · · · · · · · · ·	< 0.10	< 0.10	< 0.1
Chloromethane		< 0.10	< 0.10	< 0.1
Vinyl chloride	0.5 (5)	< 0.10	< 0.10	< 0.1
Bromomethane		< 2.0	< 2.0	< 2.
Chloroethane		< 0.20	< 0.20	< 0.2
Trichlorofluoromethane		< 0.10	< 0.10	< 0.1
1,1-Dichloroethene		< 0.10	2.4	2.1
trans-1,2-Dichloroethene		< 0.10	< 0.10	< 0.1
1,1-Dichloroethane		< 0.10	< 0.10	< 0.1
cis-1,2-Dichloroethene		< 0.10	< 0.10	< 0.1
Bromochloromethane		< 0.50	< 0.50	< 0.5
Trichloromethane		< 0.10	< 0.10	< 0.1
1,1,1-Trichloroethane	100 (4)	< 0.10	< 0.10	< 0.
Tetrachloromethane		< 0.10	< 0.10	< 0.
1,1-Dichloropropene	40 (44) M40 50 (4) 0 (44) M40 50 (0)	< 0.10	< 0.10	< 0.
Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)	4700	< 0.10	< 0.
1,2-Dichloroethane Trichloroethene	10 (AA)(1&2) 10 (5)	< 0.20	< 0.20	< 0.1
1.2-Dichloropropane	10 (5)	< 0.10	< 0.10	< 0.
1,2-Dichioropropane Dibromomethane		< 0.10	< 0.10	< 0.1
Bromodichloromethane		< 0.10	< 0.10	< 0.5
cis-1.3-Dichloropropene		< 1.0	< 1.0	< 1.
Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)	510	< 0.10	< 0.1
trans-1.3-Dichloropropene	74 (AA) 55tt /6tle (500) (1), 74 (AA) 55tt /6tle (570) (2)	< 1.0	< 1.0	< 1.
1.1.2-Trichloroethane	300 (2), 400(1)	< 0.1	< 0.1	< 0.
Tetrachloroethene	10 (1 &2)	< 0.10	< 0.10	< 0.
1.3-Dichloropropane	10 (1 &2)	< 0.20	< 0.20	< 0.3
Dibromochloromethane		< 1.0	< 1.0	< 1.
1,2-Dibromoethane		< 0.50	< 0.50	< 0.5
Chlorobenzene		< 0.10	< 0.10	< 0.1
1.1.1.2-Tetrachloroethane		< 0.20	< 0.20	< 0.2
Ethylbenzene	300 (7)	170	< 0.10	< 0.1
m.p-Xvlene		33	< 0.10	< 0.1
o-Xylene		33	< 0.10	< 0.1
Styrene	20 (5)	< 0.10	< 0.10	< 0.1
Tribromomethane	••	< 1.0	< 1.0	< 1.
Isopropylbenzene		< 0.10	< 0.10	< 0.1
Bromobenzene		< 0.10	< 0.10	< 0.1
1,2,3-Trichloropropane		< 5	< 5	< 5
N-Propylbenzene		< 0.10	< 0.10	< 0.1
2-Chlorotoluene		< 0.10	< 0.10	< 0.1
1,3,5-Trimethylbenzene	<u></u> -	< 0.10	< 0.10	< 0.1
4-Chlorotoluene	<u></u> -	< 0.10	< 0.10	< 0.1
tert-Butylbenzene		< 0.10	< 0.10	< 0.1
1,2,4-Trimethylbenzene		< 0.10	< 0.10	< 0.1
sec-Butylbenzene		< 0.10	< 0.10	< 0.
1,3-Dichlorobenzene		< 0.10	< 0.10	< 0.1
4-iso-Propyltoluene		< 0.10	< 0.10	< 0.1
1,4-Dichlorobenzene		< 0.10	< 0.10	< 0.
n-Butylbenzene		< 0.10	< 0.10	< 0.
1,2-Dichlorobenzene		< 0.10	< 0.10	< 0.
,2-Dibromo-3-chloropropane		< 5	< 5	< 5
1,2,4-Trichlorobenzene		< 0.10	< 0.10	< 0.
Hexachlorobutadiene	0.6 (MAC) (1,2) 0.4 (1,2)	< 0.10	< 0.10	< 0.
1.2.3-Trichlorobenzene		< 0.20		< 0.3

- The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Frestwater
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 frantitional waters.
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Mobilov Road Waste Site Remediation Groundwater (SVOC) Screening Round 2– CS G

	TSV	BH663B	BH662	BH664
SVOC's	ug/l			
N-Nitrosodimethylamine		< 0.050	< 0.050	< 0.050
Phenol	7.7 (1&2) 46 (95th%ile) (1&2)	< 0.050	< 0.050	< 0.050
2-Chlorophenol		< 0.050	< 0.050	< 0.050
Bis-(2-Chloroethyl)Ether		< 0.050	< 0.050	< 0.050
1,3-Dichlorobenzene		< 0.050	< 0.050	< 0.050
1,4-Dichlorobenzene		< 0.050	< 0.050	< 0.050
1,2-Dichlorobenzene		< 0.050	< 0.050	< 0.050
2-Methylphenol (o-Cresol)		< 0.050	< 0.050 < 0.050	< 0.050 < 0.050
Bis(2-Chloroisopropyl)Ether Hexachloroethane		< 0.050	< 0.050	< 0.050
N-Nitrosodi-n-propylamine		< 0.050	< 0.050	< 0.050
4-Methylphenol		< 0.050 < 0.050	< 0.050	< 0.050
Nitrobenzene		< 0.050	< 0.050	< 0.050
Isophorone		< 0.050	< 0.050	< 0.050
2-Nitrophenol		< 0.050	< 0.050	< 0.050
2,4-Dimethylphenol		< 0.050	< 0.050	< 0.050
Bis(2-Chloroethoxy)Methane		< 0.050	< 0.050	< 0.050
2,4-Dichlorophenol		< 0.050	< 0.050	< 0.050
1,2,4-Trichlorobenzene		< 0.050	< 0.050	< 0.050
Naphthalene	2.4 (1) 1.2 (2)	130	< 0.050	< 0.050
4-Chloroaniline	2.4 (1) 1.2 (2)	< 0.050	< 0.050	< 0.050
Hexachlorobutadiene	1	< 0.050	< 0.050	< 0.050
4-Chloro-3-Methylphenol		< 0.050	< 0.050	< 0.050
2-Methylnaphthalene		0.9	< 0.050	< 0.050
Hexachlorocyclopentadiene		< 0.050	< 0.050	< 0.050
2,4,6-Trichlorophenol		< 0.050	< 0.050	< 0.050
2.4.5-Trichlorophenol		< 0.050	< 0.050	< 0.050
2-Chloronaphthalene	160	< 0.050	< 0.050	< 0.050
2-Nitroaniline		< 0.050	< 0.050	< 0.050
Acenaphthylene		2.4	< 0.050	< 0.050
Dimethylphthalate		< 0.050	< 0.050	< 0.050
2,6-Dinitrotoluene		< 0.050	< 0.050	< 0.050
Acenaphthene		5	< 0.050	< 0.050
3-Nitroaniline		< 0.050	< 0.050	< 0.050
Dibenzofuran		0.23	< 0.050	< 0.050
4-Chlorophenylphenylether		< 0.050	< 0.050	< 0.050
2,4-Dinitrotoluene		< 0.050	< 0.050	< 0.050
Fluorene		0.41	< 0.050	< 0.050
Diethyl Phthalate		1	< 0.050	< 0.050
4-Nitroaniline		< 0.050	< 0.050	< 0.050
2-Methyl-4,6-Dinitrophenol		< 0.050	< 0.050	< 0.050
Azobenzene		16	< 0.050	< 0.050
4-Bromophenylphenyl Ether		< 0.050	< 0.050	< 0.050
Hexachlorobenzene		< 0.050	< 0.050	< 0.050
Pentachlorophenol	0.4 (AA) & 1 (MAC) (1&2)	< 0.050	< 0.050	< 0.050
Phenanthrene		0.57	< 0.050	< 0.050
Anthracene	0.1 (MAC 0.4) (1 & 2)	0.21	< 0.050	< 0.050
Carbazole		1.4	< 0.050	< 0.050
Di-N-Butyl Phthalate		1.2	< 0.050	< 0.050
Fluoranthene	0.0063 (AA) & 0.12 (MAC) (1&2)	0.2	< 0.050	< 0.050
Pyrene	1	0.23	< 0.050	< 0.050
Butylbenzyl Phthalate		< 0.050	< 0.050	< 0.050
Benzo[a]anthracene	1	0.15	< 0.050	< 0.050
Chrysene	1 2 /100)	0.25	< 0.050	< 0.050
Bis(2-Ethylhexyl)Phthalate	1.3 (1&2)	< 0.050	< 0.050	< 0.050
Di-N-Octyl Phthalate	1	< 0.050	< 0.050	< 0.050
Benzo[b]fluoranthene		< 0.050	< 0.050 < 0.050	< 0.050 < 0.050
Benzo[k]fluoranthene	0.05 (MAC.0.1) (1.8.0)	< 0.050	< 0.050	
Benzo[a]pyrene	0.05 (MAC 0.1) (1 & 2)	< 0.050	< 0.050	< 0.050
Indeno(1,2,3-c,d)Pyrene Dibenz(a,h)Anthracene		< 0.050 < 0.050	< 0.050	< 0.050
Benzo[g,h,i]perylene 4-Nitrophenol		< 0.050 < 0.050	< 0.050 < 0.050	< 0.050
4-INILIOPHEROI	l	< 0.050	< 0.050	< 0.000

- The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 fransitional waters.
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APPENDIX 11 - GROUNDWATER & SURFACE WATERS LABORATORY TEST CERTIFICATES

DIGITAL APPENDIX

APPENDIX 12 – QA/QC DUPLICATE/TRIPLICATE TESTING

Groundwater Quality Control

Sample Point / Determinands	DUP1	BH404	DUP2	BH646	DUP3	BH647A	DUP4	BH614	DUP5	BH122	DUP6	BH202	DUP 7	BH203	DUP8	BH637	DUP9	BH622	DUP10	SW7
HEAVY METALS			72	9.6	3.70	260	0.44	0.21	0.76	0.44	0.94	1.5	3.1	4.5	1.5	11	0.85	14	0.33	0.27
Boron (diss.fit)		-	1700	1800	230.00	3.60 270.00	27	26	75	70	0.94 450	460	420	430	120	100	84	96	< 10	< 10
Beryllium (diss.fit) Beryllium (diss.fit)		-	< 1.0	< 1.0	< 1.0	< 5.0 < 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 < 0.11	< 1.0	170 < 1.0	160 < 1.0	0.14	< 0.11	< 1.0	< 1.0
Cadmium (diss.fit) Chromium (diss.fit)	- :		0.11	0.12 21	< 0.11	< 0.11 0.88	< 0.11	< 0.11 0.56	< 0.11 0.7	< 0.11	< 0.11	0.21 < 0.50	2.7	< 0.11 3.9	< 0.11	< 0.11	< 0.50	< 0.50	< 0.11 6.1	< 0.11 6.2
Copper (diss.fit) Iron (diss.)		-	1.9 65000	2.5 62000	31.00 730.00 < 0.05	31.00 610.00 < 0.05	0.86 210	0.57 < 5.0 < 0.05	680	6.9 50	0.67 1700	1.2 4100	5.3 46000	5.1 63000 < 0.05	< 0.50 2800 < 0.05	< 0.50 1800 < 0.05	< 0.05	0.73 < 0.05	2.4 260	3.3 260
Mercury (diss.fit) Manganese (diss.fit) Molybdenum (diss.fit)		-	< 0.05 1700 0.66	1800	2.00	1.00	300 0.44	92	< 0.05 860 < 0.20	< 0.05 580 < 0.20	< 0.05 1600 < 0.20	< 0.05 1600 < 0.20	< 0.05 2500 0.51	2600 0.41	4100 0.42	4000 0.59	< 0.05	< 0.05	< 0.05 58 < 0.20	< 0.05 47 < 0.20
Nickel (diss.filt)		-	68	70 4.7	14.00 14.00 0.87	11.00 14.00 < 0.50	2 < 0.50	1.2	< 0.20 1.9 < 0.50	9.7	2.7 < 0.50	3.4	10	9.4	3.0 < 0.50	3.9	11	9.4	1.3	1.3
Lead (diss.fit) Antimony (diss.fit) Selenium (diss.fit)		-	2.5		0.87 0.74 8.60	0.70 8.80	< 0.50	< 0.50	< 0.50 < 0.50 < 0.50	< 0.50 < 0.50 < 0.50	< 0.50	< 0.50	2.4 0.58 < 0.50	2.9 0.6 < 0.50	< 0.50 < 0.50 < 0.50	< 0.50 < 0.50 < 0.50	< 0.50	< 0.50	< 0.50 < 0.50 < 0.50	< 0.50
Zinc (diss.fit)	4100		2.4 130	< 0.50 170	3.70	< 2.5	9.8 210	< 0.50 9.1	< 0.50 15 720	< 0.50	20	1.3 29	< 0.50	< 0.50 110	< 2.5 2800	< 2.5 1800	< 0.50 48 20	37 2100	4.0	6.7
Iron (Total) Manganese (Total)	14000 1100	3800 14000	-	-	-		300	< 5.0 92 51	880	580			- :		4100	4000	8900	8400	-	-
Manganese [II] Manganese [IV]	13000	2200 12000	-	-	-		260	40	200 660	520			- :		400 3700	430 3600	1200 7700	2600 5800	-	-
Iron [III]	< 20 4100	3800	-				220	< 20	< 20 670	< 20					2800	60 1700	< 20 21	2000	- :	
Chromium III (diss.fit) Chromium W (diss.fit) Phenols			< 20 < 0.10	21 < 0.10	< 20 < 0.10	< 20 0.34	< 20 < 0.10	< 0.10	[B] < 20 [B] < 0.10	[B] < 20 [B] < 0.10	< 20 < 0.10	< 20 < 0.10	- :		< 20	< 20				
Phenois, Total TPH			1.3	1.2	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030
TPH >C6-C8 TPH >C8-C10		-		-		-				-	-			-		-	< 0.10	< 0.10		-
TPH >C10-C12 TPH >C12-C16	- :		-	-	:		-		-			-	-				< 0.10 < 0.10 < 0.10	< 0.10		
					-		-	-	-		-		-		-		< 0.10	< 0.10	-	
TPH >C16-C21 TPH >C21-C25 TPH >C25-C35 TPH >C35-C40		-	-	-	-	-	-	-	- :		- :	-	- :		-	-	680	39	-	-
Total TPH >08-C40 Speciated TPH								-									25 800	370		
Aliphatics	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.10	c0.10
EC C5-08 EC>08-08 EC>08-010	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.10	< 0.10
EC>C8-C10 EC>C10-C12 EC>C12-C16	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10	< 0.10 < 0.10 < 0.10	< 0.10	< 0.10 < 0.10 < 0.10	< 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.10	-		< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10
FC>C16,C21	c 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-		< 0.10	< 0.10
EC>C21-C35 EC>C35-C44 Total Alphatics >C5-C35	< 0.10 < 0.10 < 5.0	< 0.10 < 0.10 < 5.0	< 0.10 < 0.10 < 5.0	< 0.10	< 0.10	< 0.10 < 0.10 < 5.0	< 0.10 < 0.10 < 5.0	< 0.10	< 0.10 < 0.10 < 5.0	< 0.10	< 0.10 < 0.10 < 5.0	< 0.10 < 0.10 < 5.0	< 0.10 < 0.10 < 5.0	< 0.10 < 0.10 < 5.0	< 0.10 < 0.10 < 5.0	< 0.10	-		< 0.10	< 0.10 < 0.10 < 5.0
Aromatics	< 0.10			< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			< 0.10	< 0.10
EC:-C7-C8 EC:-C8-C10	620 < 0.10	330 790	37 81 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10 < 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-		< 0.10	< 0.10
EC>C10-C12	1900	3700	190	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-		< 0.10	< 0.10
EG>C16-C21	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-		< 0.10	< 0.10
EC>C35-C44	< 0.10	< 0.10 5700 5700	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-		< 0.10	< 0.10
Total Aromatics >EC5-EC35 otal Aliphatics & Aromatics >C5-3 BTEX/MTBE/GRO	2900	5700	310 310	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	< 5.0	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	< 5.0 < 10	< 10	< 5.0 < 10	- :		< 10	< 10
GRO >C5-C12 Berzene	1400	1700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	~10	< 1.0	< 1.0	< 1.0	-10	< 1.0	< 1.0			< 1.0	-10
Toluene	370		71	61	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0 < 1.0 < 1.0
Ethylberzene pim-Xylene o-Xylene	320 74 49	360 69	62	29 60 21	< 1.0 < 1.0 < 1.0	< 1.0	< 1.0 < 1.0 < 1.0	< 1.0	< 1.0 < 1.0 < 1.0	< 1.0	< 1.0	< 1.0	< 1.0 < 1.0 < 1.0	< 1.0	< 1.0	< 1.0	:	- :	< 1.0	< 1.0
Sum of detected Xylenes	123	114	-	-											-				-	-
PCBs PCB congener 81					< 0.010	< 0.010	-	< 0.010		< 0.010										
PCB congener 77 PCB congener 105	-	- :	-	- :	< 0.010	< 0.010	-:-	< 0.010		< 0.010	-	- :		- :	- :	- :	:	- :	- :	- : -
PCB congener 114 PCB congener 123	- :		-	-	< 0.010	< 0.010	-:-	< 0.010 < 0.010 < 0.010		< 0.010 < 0.010 < 0.010	-	-			-	-			-	
PCB congener 126 PCB congener 156	- :		-	-	< 0.010	< 0.010	-:-	< 0.010		< 0.010	-	-		-	-	-		-	-	
PCB congener 157 PCB congener 167	- :		-	-	< 0.010	< 0.010	-:-	< 0.010		< 0.010	-	-		-	-	-		-	-	
PCB congener 169 PCB congener 189		-	-	-	< 0.010	< 0.010		< 0.010	-:	< 0.010	-	-	-:	-	-	-	:	-	-	
Total PCBs (12 Congeners) Polyaromatic Hydrocabons					< 0.010	< 0.010	-	< 0.010		< 0.010				-	-			-	-	-
Naphthalene (aq) Acenaphthylene (aq) Acenaphthene (aq)			< 0.010 < 0.010 < 0.010	< 0.010 < 0.010 < 0.010	0.58 < 0.010 < 0.010	0.49 < 0.010 < 0.010	< 0.010 <	0.32 < 0.010 < 0.010	0.27 < 0.010 < 0.010	< 0.010 <										
Fluorene (aq)			< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Phenanthrene (aq) Anthracene (aq)			< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010 < 0.010
Fluoranthene (aq) Pyrene (aq)			< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzo(a)anthracene (aq) Chrysene (aq)			< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010 < 0.010	< 0.010	< 0.010 < 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010 < 0.010
Benzo(k)fluoranthene (aq) Benzo(k)fluoranthene (aq)		-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010 < 0.010	< 0.010	< 0.010 < 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Berizo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)		-	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010	< 0.010 < 0.010	< 0.010	< 0.010 < 0.010	< 0.010	< 0.010 < 0.010	< 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010
Diberco(a,h)arthracene (aq) Benzo(g,h,i)perylene (aq) PAH Total Detected USEPA 16		-	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
INORGANICS	_		41	37	180	210				-	160	160	0				< 0.20	< 0.20	1000	
Dissolved Organic Carbon Total Inorganic Carbon Total Organic Carbon	220	220	- "	31	100	- 210	3.5 96	3.8 94	4.5 70	11 82	160	160	120	28	87 110	78 98	130	130	23	22
Total Organic Carbon Dissolved Methane pH	240 < 0.050	250 < 0.050	6.8	6.8	7.4	7.5	3.4 < 0.050 7.5	3.4 < 0.050 7.6	4.5 < 0.050 7.1	3.5 < 0.050 6.8	7.2	7.1	6.5	6.5	1.8 7.7	78 1.3 7.9	120 0.11 7.9	110 0.41 7.9		8.1
Dissolved CO2 Alkalinity (Total)	500 910	170 910	3000	2900	880	7.5 - 940	7.5 28 400	22	7.1 49 290	110 340	620	570	980	930	17 460	9.8 410	7.9 15 530	13 530	70	0.1
Chonge	-	-	450 1.4	440	25 0.13	41 0.29	15	16	24 < 0.050	29	44 0.19	43	47 0.12	44 0.1	37	34	-	-	22	23
Ammonia (Free) Ammonium			500	490	11 0.22	23 0.17	0.65	1.6	8.3	- 15	30	28	89	73	9.7	66			0.31	0.38
Ammoniacal Ntrogen Ntrite	< 0.020	< 0.020	< 0.020	< 0.020	< 0.50	0.17	< 0.020	< 0.020	< 0.020	0.042	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	7.8	9.3	0.056	0.060
Ntrate Sulphate	< 0.50	< 0.50	< 0.50	< 0.50	< 0.0050	< 0.0050	< 0.50	0.91	3.5 110	5 97	< 0.50	< 0.50	0.5 9.3	0.99 7.6	< 0.50	< 0.50	< 0.50	< 0.50	8.4	8.4 14
Cyanide (Total) Low-Level Suinhirle	< 0.050	< 0.050	< 0.0050	< 0.0050			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0090	0.011	< 0.0050	< 0.0050	0.0060	0.0060
Calcium Potassium	-	- 0.030	160	170	. 87	88	6.2	6.2	8.5	7.8	30	. 29	37	36	10	8.1			26	25
Magnesium Sodium	- :		68 310	71 310	0.85 240	88 0.54 240	14	13	6.8	6.6	16	15 29	29 51	29 49	17	16 25	- :		4.7	2.3 4.7
The Water Framework Directive																				

The Water Framework Director (Priority Solidaters and Caselfoction) (Inglindering (Purthern Indians) 2015 Frankwater.
 The Water Framework Director (Priority Solidaters and Caselfoction) (Inglindering (Purthern Indians) 2015 Frankwater.
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MAC. This garantein is the Environmental Quality Standard segressed as a maximum allowable concentration (MACROS).Where the MACROS are marked as "not applicable", the AACO values are considered protective agence than temp

Marks 4 Collocardable demand as the Media Biocardabling Associated Tool ID ARVIT developed by WIDTAG. Look at receptor specific associated can give be Media Tool and the Media Biocardabling Associated and an advantage of the Media Tool and the Media Biocardables. It may live easify an advantage of the Media Biocardable and associated as the Media Biocardables and the Me

Mohiov Road Waste Site Remediation Groundwater Quality Control (VQCs)

	DUP2	<u>BH646</u>	DUP3	BH647#
VOC's				
Dichlorodifluoromethane	< 0.10	< 0.10	< 0.10	< 0.1
Chloromethane	< 0.10	< 0.10	< 0.10	< 0.1
Vinyl chloride	< 0.10	< 0.10	< 0.10	< 0.1
Bromomethane	< 2.0	< 2.0	< 2.0	< 2.
Chloroethane	< 0.20	< 0.20	< 0.20	< 0.2
Trichlorofluoromethane 1.1-Dichloroethene	< 0.10	< 0.10	< 0.10	< 0.1
trans-1,2-Dichloroethene	< 0.10	< 0.10	< 0.10	< 0.1
1.1-Dichloroethane	< 0.10	< 0.10	< 0.10	< 0.1
cis-1.2-Dichloroethene	< 0.10	< 0.10	< 0.10	< 0.1
Bromochloromethane	< 0.50	< 0.50	< 0.50	< 0.5
Trichloromethane	< 0.10	< 0.10	< 0.10	< 0.1
1,1,1-Trichloroethane	< 0.10	< 0.10	< 0.10	< 0.1
Tetrachloromethane	< 0.10	< 0.10	< 0.10	< 0.1
1,1-Dichloropropene	< 0.10	< 0.10	< 0.10	< 0.1
Benzene	< 1.0	< 1.0	< 0.10	< 0.10
1,2-Dichloroethane	< 0.20	< 0.20	< 0.20	< 0.20
Trichloroethene	< 0.10	< 0.10	< 0.10	< 0.10
1,2-Dichloropropane	< 0.10	< 0.10	< 0.10	< 0.10
Dibromomethane	< 0.10	< 0.10	< 0.10	< 0.10
Bromodichloromethane	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	71	61	< 0.10	< 0.10
trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	< 0.1	< 0.1	< 0.1	< 0.1
Tetrachloroethene	< 0.10	< 0.10	< 0.10	< 0.10
1,3-Dichloropropane Dibromochloromethane	< 0.20	< 0.20	< 1.0	< 0.20
1,2-Dibromoethane	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	< 0.10	< 0.10	< 0.10	< 0.10
1.1.1.2-Tetrachloroethane	< 0.20	< 0.20	< 0.20	< 0.20
Ethylbenzene	31	29	< 0.10	< 0.10
m,p-Xylene	62	60	< 1.0	< 1
o-Xylene	24	21	< 1.0	< 1
Styrene	< 0.10	< 0.10	< 0.10	< 0.10
Tribromomethane	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	< 0.10	< 0.10	< 0.10	< 0.10
Bromobenzene	< 0.10	< 0.10	< 0.10	< 0.10
1,2,3-Trichloropropane	< 5	< 5	< 5	< 5
N-Propylbenzene	< 0.10	< 0.10	< 0.10	< 0.10
2-Chlorotoluene	< 0.10	< 0.10	< 0.10	< 0.10
1,3,5-Trimethylbenzene	< 0.10	< 0.10	< 0.10	< 0.10
4-Chlorotoluene	< 0.10	< 0.10	< 0.10	< 0.10
tert-Butylbenzene	< 0.10	< 0.10	< 0.10	< 0.10
1,2,4-Trimethylbenzene	13	13	< 0.10	< 0.10
sec-Butylbenzene	< 0.10	< 0.10	< 0.10	< 0.10
1,3-Dichlorobenzene	< 0.10	< 0.10	< 0.10	< 0.10
4-iso-Propyltoluene 1.4-Dichlorobenzene	< 0.10	< 0.10	< 0.10	< 0.10
n-Butylbenzene	< 0.10	< 0.10	< 0.10	< 0.10
n-Butylbenzene 1,2-Dichlorobenzene	< 0.10	< 0.10	< 0.10	< 0.10
1,2-Dichloropenzene 1,2-Dibromo-3-chloropropane	< 0.10	< 0.10	< 0.10	< 0.10
1.2.4-Trichlorobenzene	< 0.10	< 0.10	< 0.10	< 0.10
Hexachlorobutadiene	< 0.10	< 0.10	< 0.10	< 0.10
1,2,3-Trichlorobenzene	< 0.10	< 0.20	< 0.10	< 0.20
	< 1.0	< 1.0	< 0.10	< 0.10

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Irendo) 2015 Freshwater 1. The Water Framework Directive Priority Substances and Classification) Regulations (Northern Irendo) 2015 transitional waters.

3. Groundwater Orinking Water Protected Areas - The River Basin Districts Typology, Standards and Groundwater threshold values (Water Framework Directive) (England and Wales) Directions 2010

4. Freshwater ECS (AA)

5. UR Drinking Water Standard

6. Irish Drinking Water Standard

Mohiov Road Waste Site Remediation Groundwater Quality Control (SVQCs)

	DUP2	<u>BH646</u>	DUP3	BH647A
SVOC's				
N-Nitrosodimethylamine	< 0.050	< 0.050	< 0.050	< 0.050
Phenol 3 Chlorophonel	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050 < 0.050
2-Chlorophenol Bis-(2-Chloroethyl)Ether	< 0.050	< 0.050	< 0.050	< 0.050
1.3-Dichlorobenzene	< 0.050	< 0.050	< 0.050	< 0.050
1.4-Dichlorobenzene	< 0.050	< 0.050	< 0.050	< 0.050
1,2-Dichlorobenzene	< 0.050	< 0.050	< 0.050	< 0.050
2-Methylphenol (o-Cresol)	< 0.050	< 0.050	< 0.050	< 0.050
Bis(2-Chloroisopropyl)Ether	< 0.050	< 0.050	< 0.050	< 0.050
Hexachloroethane	< 0.050	< 0.050	< 0.050	< 0.050
N-Nitrosodi-n-propylamine	< 0.050	< 0.050	< 0.050	< 0.050
4-Methylphenol	< 0.050	< 0.050	< 0.050	< 0.050
Nitrobenzene	< 0.050	< 0.050	< 0.050	< 0.050
Isophorone 2-Nitrophenol	< 0.050	< 0.050	< 0.050	< 0.050 < 0.050
2,4-Dimethylphenol	< 0.050	< 0.050	< 0.050	< 0.050
Bis(2-Chloroethoxy)Methane	< 0.050	< 0.050	< 0.050	< 0.050
2,4-Dichlorophenol	< 0.050	< 0.050	< 0.050	< 0.050
1,2,4-Trichlorobenzene	< 0.050	< 0.050	< 0.050	< 0.050
Naphthalene	< 0.050	< 0.050	< 0.050	< 0.050
4-Chloroaniline	< 0.050	< 0.050	< 0.050	< 0.050
Hexachlorobutadiene	< 0.050	< 0.050	< 0.050	< 0.050
4-Chloro-3-Methylphenol	< 0.050	< 0.050	< 0.050	< 0.050
2-Methylnaphthalene	< 0.050	< 0.050	< 0.050	< 0.050
Hexachlorocyclopentadiene 2,4,6-Trichlorophenol	< 0.050	< 0.050 < 0.050	< 0.050	< 0.050 < 0.050
2,4,5-Trichlorophenol	< 0.050	< 0.050	< 0.050	< 0.050
2-Chloronaphthalene	< 0.050	< 0.050	< 0.050	< 0.050
2-Nitroaniline	< 0.050	< 0.050	< 0.050	< 0.050
Acenaphthylene	< 0.050	< 0.050	< 0.050	< 0.050
Dimethylphthalate	< 0.050	< 0.050	< 0.050	< 0.050
2,6-Dinitrotoluene	< 0.050	< 0.050	< 0.050	< 0.050
Acenaphthene	< 0.050	< 0.050	< 0.050	< 0.050
3-Nitroaniline	< 0.050	< 0.050	< 0.050	< 0.050
Dibenzofuran	< 0.050	< 0.050	< 0.050	< 0.050
4-Chlorophenylphenylether	< 0.050	< 0.050	< 0.050	< 0.050
2,4-Dinitrotoluene Fluorene	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050
Diethyl Phthalate	3.3	< 0.050	< 0.050	< 0.050
4-Nitroaniline	< 0.050	< 0.050	< 0.050	< 0.050
2-Methyl-4,6-Dinitrophenol	< 0.050	< 0.050	< 0.050	< 0.050
Azobenzene	< 0.050	< 0.050	< 0.050	< 0.050
4-Bromophenylphenyl Ether	< 0.050	< 0.050	< 0.050	< 0.050
Hexachlorobenzene	< 0.050	< 0.050	< 0.050	< 0.050
Pentachlorophenol	< 0.050	< 0.050	< 0.050	< 0.050
Phenanthrene	< 0.050	< 0.050	< 0.050	< 0.050
Anthracene	< 0.050	< 0.050	< 0.050	< 0.050
Carbazole	< 0.050	< 0.050	< 0.050	< 0.050
Di-N-Butyl Phthalate Fluoranthene	< 0.050	< 0.050	< 0.050	< 0.050 < 0.050
Pyrene	< 0.050	< 0.050	< 0.050	< 0.050
Butylbenzyl Phthalate	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[a]anthracene	< 0.050	< 0.050	< 0.050	< 0.050
Chrysene	< 0.050	< 0.050	< 0.050	< 0.050
Bis(2-Ethylhexyl)Phthalate	< 0.050	< 0.050	< 0.050	< 0.050
Di-N-Octyl Phthalate	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[b]fluoranthene	< 0.050	< 0.050	< 0.050	< 0.050
	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[k]fluoranthene	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[a]pyrene				< 0.050
Benzo[a]pyrene Indeno(1,2,3-c,d)Pyrene	< 0.050	< 0.050	< 0.050	
Benzo[a]pyrene Indeno(1,2,3-c,d)Pyrene Dibenz(a,h)Anthracene	< 0.050 < 0.050	< 0.050	< 0.050	< 0.050
Benzo[a]pyrene Indeno(1,2,3-c,d)Pyrene	< 0.050			

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.

2. The Water Forenework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Iransitional waters.

3. Groundwater Drinning Water Foreneed Areas - The River Basin Districts Typology, Standards and Groundwater threshold values (Water Framework Directive) (England and Wales) (Prections 2010

4. Freshwater EOS (AA)

5. UK Drinning Water Standard *Total PAH = Sum of 4: Benzo(b) & (killucurathene indeno(123cd)pyrene Benzo(ghi)perylene

6. Irish Drinning Water Standard

7. WHO (World Health Organisation) - Petroleum Products in Drinning Water,

Mohiov Road Waste Site Remediation Groundwater Quality Control (Pesticides)

Sample Point / Determinands	TSV	DUP2	<u>BH646</u>
	ug/l		
Demeton-O		< 0.20	< 0.20
Phorate		< 0.20	< 0.20
Demeton-S		< 0.20	< 0.20
Disulfoton		< 0.20	< 0.20
Fenthion		< 0.20	< 0.20
Trichloronate		< 0.20	< 0.20
Prothiofos		< 0.20	< 0.20
Fensulphothion		< 0.20	< 0.20
Sulprofos		< 0.20	< 0.20
Azinphos-Methyl		< 0.20	< 0.20
Coumaphos		< 0.20	< 0.20
Parathion		< 0.20	< 0.20
Diazinon	0.1 (AA)(1&2), 0.02 (95%ile) (1), 0.26 (95%ile)(2)	< 0.50	< 0.50
Ethion		< 0.50	< 0.50
Dichlorvos	0.0006 (AA)(1), 0.0007(MAC)(1), 0.00006(AA)(2), 0.00007(MAC)(2)	< 0.50	< 0.50
Mevinphos		< 0.20	< 0.20
Fenitrothion		< 0.20	< 0.20
Malathion		< 0.20	< 0.20
Alpha-HCH		< 0.020	< 0.020
Gamma-HCH (Lindane)		< 0.020	< 0.020
Beta-HCH		< 0.020	< 0.020
Delta-HCH		< 0.020	< 0.020
Heptachlor		< 0.020	< 0.020
Aldrin		< 0.020	< 0.020
Heptachlor Epoxide		< 0.020	< 0.020
Gamma-Chlordane		< 0.020	< 0.020
Alpha-Chlordane		< 0.020	< 0.020
Endosulfan I		< 0.020	< 0.020
4.4-DDE		< 0.020	< 0.020
Dieldrin		< 0.020	< 0.020
Endrin		< 0.020	< 0.020
4,4-DDD		< 0.020	< 0.020
Endosulfan II		< 0.020	< 0.020
Endrin Aldehyde		< 0.020	< 0.020
4.4-DDT		< 0.020	< 0.020
Endosulfan Sulphate		< 0.020	< 0.020
Methoxychior		< 0.020	< 0.020
Endrin Ketone		< 0.020	< 0.020

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 transitional waters.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 freshwater.
 Groundwater Ornhinig Water Frosteck Areas - The Mere Basin Districts Typology, Standards and Groundwater threshold values (Water Framework Directive) (England and Wales) Directions 2010
 Freshwater ECG (AA)
 S. UK Drinking Water Standard *Total PAH = Sum of 4:

 Benzo(b) & (k)fluoranthene Indeno(123cd)pyrene
 Indeno(123cd)pyrene
 Irish Drinking Water Standard

APPENDIX 13 – MPRT EMP'S HISTORICAL DATA REVIEW SUMMARY

Historical Data Review (EMP Quarterly Monitoring Data = 2017 - 2022)

Sample Point / Determinands	tsv	MBAT PNEC (ug/l)										8	3H02										
HEAVY METALS	μg/I	20/07/201	16 27/09/2016	10/07/2017 02/08/2017	18/10/2017	10/01/2018	12/01/2018 11/04	/2018 17/04/201	8 26/06/2018 :	27/06/2018	01/10/2018 03/10/2018	07/01/2019	9 09/01/2019	09/04/2019 11/04/2019	04/07/2019	05/07/2019 15	10/2019 :	1/10/2019	17/02/2020	19/02/2020	13/10/2020	21/04/2021	20/07/2021
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)			6.06	5.84		10.00	10.00		10.00	10.00		10.00	10.00			0.00			10.00	10.00		24.58
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l			0.125	0.025		1	1		1	1		1	1		1	1			1	1	0.025	0.025
Chromium (diss.filt)	50 (5)			0.317	0.344		2.5	2.5		2.5	2.5		2.5	0.617		2 :	1.5			0.73	0.40	0.48	0.51
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94		0.125	0.125		14.2	18.4		10.2	19.5		29.3	29.9		23.3 2	9.8			13.4	5.57		0.25
Iron (diss.) Mercury (diss.filt)	1000 (AA) (182) 0.07 MAC (182)			21800	25400		22600	24400		32700	37800		48100	56600		58700 45	600			50500	8565	49700	29900
Manganese (diss.fit)	123 (AA) (*********************************	276.92		0.0025	0.0025 6210.0		0.0025	0.0025		0.0025	0.0025		0.0025	0.0025		0.0025 0.1	0025			0.0025 1380.0	0.0025	0.0025	0.0025
Molybdenum (diss.filt)	70 (8) 2	270.92		3770.0	6210.0		6040.0	3530.0		2930.0	2890.0		3290.0	3200.0		2910.0 20	10.0	_		1580.0	1022.9	877.0	707.5
Nickel (diss.fit)	4(MAC) (182)	14.98		13.2	14.3		19.4	19.5		15.9	14.9		17.4	18.8		18.3 2	2.6			19	16.5	21.6	21.8
Lead (diss.filt)	1.2(MAC) (1&2)	9.64		0.125	0.125		10	10		10	10		10	10		10	10			10	10	0.125	0.025
Antimony (diss.filt)	5 (5)																						
Selenium (diss.filt) Zinc (diss.filt)	10(5)	10 37.15		2.83	4.61									0.5		0.5				0.5	0.344		0.36
	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC	37.15		2.5	1.09		4.12	4.1		3.89	4.42		6.78	7.32		8.03	5.5			6.88	2.36	1.22	1.22
Iron (Total)				57700 6030	64100 6200	41200 5940	5030 371		76900 3280													65500 907	66100 775
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)			8030	6200	3340	3/1	,	3280	-	-		 	0.31		100 0	75			0.37	0.40	0.48	051
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)								+	_				0.025		0.025 0.	025	_		0.025	0.025		0.025
Aluminium (diss.filt)				50	50		20	20		20	20		20	20			20			20	20	20	20
Vanadium (diss.filt)		1,		0.125	0.125																0.30		0.55
Phenois	ug/l																						
Phenols, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2)			1.25		22.50	22.5	0	22.50			22.50		22.50				22.50	22.50		240.00	22.50	22.50
Aliphatics	ug/l																						-
Aliphatics EC C5-C6	15000 (7)		+ +			10	10	_	10			10	1	10	10			10	10		10	10	10
EC>C6-C8 FC>C8-C10	15000 (7)					12.5	12.5		12.5			12.5		12.5	12.5			12.5	12.5		12.5	12.5	12.5
	300 (7)					7.5	7.5		7.5			7.5		7.5	7.5			7.5	7.5		7.5	7.5	7.5
EC>C10-C12	300 (7)					5	5		5					5				5	5				
EC>C12-C16 EC>C16-C21	300 (7)					5	5		5					5				5	5				
EC-C16-C21 EC-C21-C35						5	5 5		5					5				5	5				
EC-C35-C44																		5	5				-
Aromatics						5	5		5					5					3				
EC CS-C7	10 (7)					1	1		1			1		1	4.1			2.7	2.08		2.25	3.534	2.796
EC>C7-C8 EC>C8-C10	700 (7)					2.5	2.5		2.5			2.5		2.5	2.5			2.5	2.5		2.5	2.5	2.5
EC>C8-C10	300 (7)					25	25		25			25		25									
EC>C10-C12	90 (7)						5		5					60				15	5				
EC>C12-C16 EC>C16-C21	90 (7)						5		5					180				5	5				
E>C1-C35	90 (7)						5		5	-	-		 	170				5	5				
Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)			3		3.7	32		2.76	_		3.76		0.5	4.1			2.7	2.08		2.25	3.43	2.72
Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)			0.5		0.5	0.5		0.5			0.5		0.5	0.5			0.5	0.5		0.5	0.5	0.5
Ethylbenzene	300 (8)			0.5 0.5		0.5	0.5		0.5			0.5		0.5	0.5			0.5	0.5		0.5	0.5	0.5
p/m-Xylene				0.5										1	1			1	1		1	1	_ 1
o-Xylene Sum of detected Xylenes	500 (8)			0.5		0.5	0.5		0.5			0.5		0.5	0.5 1.5			1 15	0.5 1.5		0.5 1.5	0.5 1.5	0.5 1.5
Polyaromatic Hydrocabons	ug/l														1.5			1.5	1.5		1.5	1.5	13
Naphthalene (ag)	2 (AA) (1 &2) 130 (MAC 1&2)			0.5		0.302	0.27	6	0.153			0.004		0.089	0.125			0.8198	0.817		0.01	1.291	0.048
Acenaphthylene (aq)						0.046	0.00		0.03			0.003		0.037	0.058			0.2003	0.022		0.016		0.005
Acenaphthene (aq)						0.488	0.13	2	0.056			0.014		0.245	0.312			1.267	0.396		0.009	0.242	0.061
Fluorene (aq)	•					0.083	0.04		0.086			0.02		0.13	0.155			0.518	0.099		0.014	0.12	0.054
Phenanthrene (aq) Anthracene (aq)	0.1 (AA & MAC) (1 & 2)					0.071	0.03		0.029			0.021		0.013	0.072			0.02	0.0025		0.062		0.039
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)					0.028	0.02	2	0.008	_		0.013		0.021	0.036			0.02	0.0025		0.028	0.315	0.026
Pyrene (aq)	-					0.024	0.02	1	0.009			0.012		0.018	0.033			0.083	0.039		0.019	0.106	0.014
Benzo(a)anthracene (aq)	·					0.0005	0.000		0.0005			0.0005		0.002	0.012			0.018	0.004		0.003	0.002	0.022
Chrysene (aq)	-					0.0005	0.000		0.0005			0.0005		0.003	0.012			0.018	0.009		0.005	0.006	
Benzo(b)fluoranthene (aq)	0.017 (MAC) (182)		+			0.0005	0.01		0.0005				1	0.002	0.027			0.021	0.003		0.003		0.028
Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))		1			0.0005	0.00		0.0005	_		0.001	-	0.0005	0.023			0.021	0.004		0.002	0.002	0.035
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))		+			0.001	0.00		0.001	-		0.001	1	0.001	0.009			0.011	0.004		0.004		0.05
Dibenzo(a,h)anthracene (aq)	-		1			0.002	0.00	2	0.002			0.002	1	0.002	0.003				0.005		0.002	0.002	0.014
Benzo(g.h.i)pervlene (ag)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		1			0.001	0.00		0.001			0.005		0.002	0.002			0.03	0.005 0.001		0.002	0.001	0.023
INORGANICS	mg/l																						
Dissolved Organic Carbon		35	44	31.5	33.6	38.1	61.5		37.8		35.1	35.1		38.5	51			57	32.8		40.2	66.8	
pH	6 - 9 (2&4)	7.1	6.9	6.9	7.6	6.8	6.8		7.3		6.9	7	1	7	7			6.9	7.3		6.9	6.8	7.1
Alkalinity (Total) Chloride	250 (5)	930	960 170	933 150	917 155	1040 172	112 168	9	946 152	-	869 148	918 161	1	995 150	1100 92			1222	890 138		916 147	1340 156	1138 161
Ammoniacal Nitrogen	230 (3)	0.084		150 47.8	155	52	168 574		52		148 50	161 54	1	150 84	62			70 34	138 52.9		36.99		71 94
Nitrite		0.02	0.01	0.025	0.005	0.009	0.002		0.046	_	0.006	0.016	1	0.01	0.01			0.01	0.01		0.01	0.01	0.01
Nitrate	50 (5) 250 (5)	0.25	0.25	0.03	0.03	0.03	0.03		0.03		0.03	0.03		0.15	0.125				0.125		0.125	0.125	
Sulphate	250 (5)			4.16	3.87		5.6	7.1		5.12	4.54		12.5	9.35		5.8 6				4.92	5.43		6.51
Sulphide																							
Calcium				206	199		220	227		203	170		190	194		215				155	181	284	232
Potassium			1	55	54.5	1	60.7	64.8		62.3	59.6		61.4	62.5		68.4 7	4.9			59.5	62.67	71.17	71.69
Magnesium	200(5)		+	36.6 136	37.4 134		44.6 146	49.2 164		38.9 138	36.9 124		40.7 129	42.3 132		52 5 156 1	6.5			39.9 124	42.81 128.99	59.71 145.70	52.30
Sodium Biochemical Oxygen Demand	200[3]		+	136	3.8	4.4	146 4.5		7.5	436	2	7.5	129	25	7.5	10 1		7.1	4.2	124	4.40		5.30
Chemical Oxygen Demand	1		+ +		3.8 124	112	4.5 180	_	2.5 45		99	44	1	45	174			40	107		48.00	184.00	45.00
Conductivity			1	2198	2161	2530	259	В	2150		2119	2200		2310	2590			2700	2090		2250	2952	2645
Total Oxidisable Nitrogen				0.03	0.03	0.03	0.03	1	0.03		0.03	0.03		0.15	0.15			0.15	0.15		0.15	0.15	0.15
Total Phosphorus					0.125	0.36	0.73		0.125		0.125	0.125		0.125	0.125			0.125	0.125		0.125	0.125	0.31

The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern Ireland) 2015 Transitional waters.
 The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern Ireland) 2015 Transitional waters.
 The Cassification (Water Directive) Regulation (Water Priority Substances) (Water Framework Directive) Regulation (Water Directive)
 The Water Water Substance (Water Priority Market Standard (Water Priority Market Priority Market Priority Market Priority Market Priority Market Priority Market Priority Market Priority Market Priority Market Priority Market Priority Market Priority Market Priority Market Priority Market Priority Market Priority Market Priority Market Priority Market Priority Market

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EQS). Where the MAC EQS are marked as "not applicable", the AA-EQS values are considered protective against short term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of caucterology.

Note: Collisional alib derived via the Metal Biosval ability Assessment Tool (M &AT) developed by WDTAG. Look at receptor specific assessment using the Martin Section Collision

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																			В	H04		
HEAVY METALS	μg/l		26/10/2021	1 02/02/2022	20/07/2016 09/08/2016	27/09/2016	09/01/2017 11/01/2	2017 06	6/03/2017 08/03/2017	20/07/2017	15/08/2017	31/08/2017	19/10/2017	12/01/2018	22/02/2018	17/04/2018	27/06/2018	03/07/2018 03/	10/2018 17/10/2	018 19/10/201	8 09/01/2019	14/01/2019	11/04/2019	30/04/2019 05/07/2019
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		13.31	22.27			12.50	_		8.30			7.81	10.00		10.00	10.00	10	.00		10.00		10.00	10.00
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		0.025	0.025			5.000			0.125			0.025	1.000		1.000	1.000		100		1.000		1.000	1.000
Chromium (diss.filt)	50 (5)		0.41	0.48			12.500			0.502	1.490	1.490	0.663	6.430 7.770		8.170 2.500	2.500		00	_	2.500		2.740	1.600 2.500
Copper (diss.fit) Iron (diss.)	1 (AA) bioavailable (me Note 1) (1) (see Note 4) (2) 1000 (AA) (1&2)	34.94	0.125	33246			10.000	,		6200			0.561	13500		2.500	2.500		70	_	5.049		2.500	2.500 6520
Mercury (diss.filt)	0.07 MAC (1&2)	_	0.0025	0.0025			0.0025	5		0.0025			0.0025	0.0025		0.0025	0.0025		025		0.0025		0.0025	0.0025
Manganese (diss.filt)	123 (AA) (Microsoft)	276.92	586.8	663.7			16100)		19600			18400	17600		21000	18700	17	500		18300		19800	18500
Molybdenum (diss.filt) Nickel (diss.filt)	70 (8) ? 4 ^(MAC) (AA) (1), 8.6 (AA) (2), 34 (MAC) (182)	14.98		20.4			38.40			36.50			43.20	46.90		46.90	42 30		.60		47.70		48.80	45.10
Nickel (diss.filt)	4	14.98 9.64	0.125	0.125			38.40 12.5			36.50 0.125			43.20 0.125	46.90		46.90	42.30		.60		47.70		48.80	45.10 10
Antimony (diss.filt)	5 (5)		0.123	0.125			12.3			0.125			0.125	10		- 10	- 10				- 10		- 10	
Selenium (diss.filt)	10(5)	10	0.35	0.373						3.30	0.10	0.10	6.75										0.50	0.50
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (100 No. 100	37.15	0.5	0.5			10.00			1.91			1.44	4.11		3.42	3.60	3	21		3.57		3.20	3.49
Iron (Total)			45000	61100			13100		15300	11500			16100		17000	11200		10200						
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)		569	740 0.48			20200	,	22300	19600			18200		17900	20900		18100	_				137	0.80
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.025	0.025							0.025	0.025											0.025	
Aluminium (diss.filt)			20	20			50			50			50	20		20	20		0		20		20	0.025 20
Vanadium (diss.filt)			0.37	0.48						0.125			0.308											
Phenois Phenois, Total	ug/l 7.7 (182) 46 (95th1@e) (182)		400.00	22.50			1.25		2.00	3.00					22.50	22.50		22.50		22.55		22.50		22.50
Speciated TDH	7.7 (1&2) 46 (95th*Gle) (1&2) ug/l		480.00	22.50			1.43	1	13.00	3.00					22.50	22.50		22.50		22.50		22.90		22.30
Aliphatics EC CS-C6	, , , , , , , , , , , , , , , , , , ,																							
	15000 (7)		10	10			25		25		10	10			10	10		10		10		10		10
EC>C6-C8 FC>C8-C10	15000 (7) 300 (7)		12.5	12.5			30		30		12.5	12.5			12.5	12.5 7.5		12.5		12.5		12.5		12.5
EC>C10-C12	300 (7)		7.5	7.5			0.05 3.5	-	0.05		7.5	7.5			7.5	7.5		7.5	_	7.5 60		7.5 70		7.5 60
FC>C12-C16	300 (7)	_	_				5	_	25						5	5		5		5		5		5
EC>C12-C16 EC>C16-C21							2.5		221 50						5	5		5		5		5		5
EC>C21-C35															5	5		5		5		10		
EC>C35-C44							2.5		15						5	5		5		5		10		5
Aromatics FC CS-C7	10.77		2.506	2.55			0.025	0	1.025		1	1			- 1	1		1		1		1		1
EC>C7-C8 EC>C8-C10	700 (7)		2.5	2.5			0.025		0.025		2.5	2.5			2.5	2.5		2.5		2.5		2.5		2.5
EC>C8-C10	300 (7)						0.025				25	25			25	25		25		25		25		25
EC>C10-C12	90 (7)						3.5								5	5		5		60		70		60
EC>C12-C16 EC>C16-C21	90 (7)		_				15		100						5	5	_	5	_	170		190 250		140 200
EC>C21-C35	90 (7)	_	_				15		100						5	5		5		5		170		100
Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)		2.463	2.46			5.00	2	2.00	0.50	0.50	0.50			0.50	0.50		0.50		1.58		0.50		0.50
Toluene	74 (AA) 95th%le (380) (1), 74 (AA) 95th%le (370) (2) 300 (8)		0.5	0.5			5.00		2.00	0.50	0.50				0.50	0.50		0.50		0.50		0.50		0.50
Ethylbenzene p/m-Xylene	300 (8)		0.5	0.5			5.00	2	2.00	0.50	0.50 1.00	0.50 1.00			0.50 1.00	0.50 1.00		0.50 1.00		0.50 1.00		0.50 1.00		0.50 1.00
o-Xviene		_	0.5	0.5			5.00		2.00	0.50	0.50	0.50			0.50	0.50		0.50		0.50		0.50		0.50
Sum of detected Xylenes	500 (8)		1.5	1.5																				
Polyaromatic Hydrocabons	μg/l																							
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)		830.0	0.217						0.500	0.015	0.015 0.015			0.004	0.038		0.021		0.528		0.054		0.059
Acenaphthylene (aq) Acenaphthene (aq)			0.058	0.0158							0.001	0.001			0.002	0.013		0.007		0.132		0.010		0.017
Fluorene (aq)			0.099	0.089							0.002	0.002			0.002	0.020		0.011		0.125		0.024		0.012
Phenanthrene (aq)	0.1 (AA & MAC) (1 & 2)		0.026	0.085							0.003	0.003			0.003	0.003		0.007		0.036		0.024		0.008
Anthracene (aq)			0.017	0.014							0.003	0.003			0.003	0.003		0.003		0.005		0.006		0.003
Fluoranthene (aq) Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)	-1	0.017	0.046		-		+			0.019	0.019			0.001	0.022	-	0.019 0.026		0.080	1	0.028	-	0.022
Benzo(a)anthracene (aq)	·	_	0.0005	0.007							0.001	0.001			0.001	0.001		0.001		0.001		0.001		0.001
Chrysene (aq)	•		0.002	0.01								0.001			0.001	0.001		0.001		0.001		0.001		0.001
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2)		0.0005	0.008		— — —		_			0.001	0.001			0.001	0.001		0.001		0.001	-			0.001
Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))		0.0005	0.006	 				_		0.001	0.001			0.001	0.001	 	0.001		0.001	1 -	0.126		0.001 0.001
Indeno(1,2,3-cd)pyrene (aq)		_	0.002	0.01							0.001	0.001			0.001	0.001		0.001		0.001		0.011		0.001
Dibenzo(a,h)anthracene (aq)	-		0.002	0.002							0.002	0.002			0.002	0.002		0.002		0.002		0.017		0.002
Benzo(q,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		0.001	0.007							0.001	0.001			0.001	0.001		0.001		0.003		0.013		0.001
INORGANICS Dissolved Organic Carbon	mg/l		56.6	52.8	170 100	93	34		38.7	28.7			45.7		38.3	363		33.4	42.5			37.9		38.7
Dissolved Organic Carbon pH	6 - 9 (2&4)	+	7.1	52.8 6.8		6.9	34	_	38.2 7.6				7.1		58.3 6.8	36.3 7.5	1	53.4 6.9	7.2	-		6.8		7.5
Alkalinity (Total)		-1	1080	1033	1100 1500	1700	991		1124	957	1	1	1157		1119	1030	1	993	1185		1	1119		1060
Chloride	250 (5)		666	159	330 310	400	216		225	177			238		223	222		204	247			219		235
Ammoniacal Nitrogen			1.92	66.46	2.5 1.2	0.87	49		62	58			69		61	65		63	71			65		67
Nitrite Nitrate	F0/F)		0.01	0.01	0.047 0.01	0.87	0.009		0.028	0.027			0.0025		0.0025	0.016	-	0.0025	0.0025			0.0025		0.01
Sulphate	50 (5) 250 (5)	+	6.31	6.28	0.25	400	0.03		0.03	24.90			30.10	31.10	0.03	23.10	22.40	0.03			27.00	0.03	23.00	21.10
Sulphide	250(5)		3.31	3.20						230				32.20		23.10	-2.70		-				22.00	
Calcium			210	209			207.00			185.00			210.00	222.00			179.00		.00		211.00		183.00	187.00
Potassium	ļ		69.29	70.16			53.90			54.60			70.90	64.90		59.30	59.10	70	.20		60.90		74.10	61.90
Magnesium Sodium	200/5)		50.04	50.40 164.00	 		54.00 166.00		-	51.20 153.00	1		68.30	60.80 194.00		53.10 187.00	54.00 171.00	67	20		60.90 182.00		62.80 195.00	54.30 172.00
Sodium Biochemical Oxygen Demand	200(3)	-1	173.00	4.50			166.00	-	- 1	153.00	 	1	2.5	194.00	13.5	2.5	1/1.00	25	25		102.00	2.7	195.00	2.5
Chemical Oxygen Demand	<u> </u>		422.00	50.00									156		106	102		92	104			98		101
Conductivity			7280	2510						2353			2959		2803	2604		2505	2900			2760		2600
Total Oxidisable Nitrogen Total Phosphorus			0.15	0.15 0.125			0.03		0.03	0.03			0.03		0.03	0.03		0.03	0.03		1	0.03		0.15 0.125
rotal Phosphorus	1		0.37	U.125									0.125		U.125	U.125	1	0.125	0.125			0.125		0.125

The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern Ireland) 2015 Transitional valets.
 The Cassification (Priority Substances and Cassification) Regulations (Northern Ireland) 2015 Transitional valets.
 The Cassification (Northern Ireland) 2015 Transitional valets (Priority Substances and Cassification) Regulations (Northern Ireland) 2015 Transitional Valet (Priority Substances Valet) Priority (Northern Ireland) 2015 Transitional Valet (Priority Substances Valet (Priority Substances Valet) Priority (Priority Substances Valet) Priority (Priority Substances Valet) Priority (Priority Substances Valet) Priority (Priority Substances Valet) Priority (Priority Valet) Priorit

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basis of particularity.

Note: 4 (2000 ovalidate derived via the Metal Biovariability Associated Tool (M. BAT) developed by WET FAL. Look at receptor specific associations of the Metal Biovariability association of the Metal Biovar

Sample Point / Determinands	TSV	MBAT PNEC																						
WEAVOY METAL O																								
HEAVY METALS Arsenic (diss.filt)	μg/l 50 (AA) (1) 25 (AA (2)		1//0//201	10.00	10.00	25/02/2020	27/02/2020 27/07/202	10.00	7.72	10.00	10.60	7.04	8.89	6.97	7.05	6.39	09/08/2016	8.91	20/07/2017	15/08/2017	31/08/2017	10.70	10.00	21.60
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l			1.000	1.000			1.000	0.025	1.000	0.025	0.025	0.025	0.025	0.025	0.025		0.125				0.025	1.000	1.000
Chromium (diss.filt) Copper (diss.filt)	50 (5)	****		0.910 2.500	1.500 2.500			5.890 2.500	0.604	0.570 2.500	0.735	0.690	0.864	0.633	0.885	0.730 0.287	_	0.125 0.125	_	0.731	0.731	0.125	2.500 2.500	2.500 2.500
Tron (diss.)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (ΔΔ) (182)	34.94		6930	17200			58	7213	2500	8945	5881	4809	5628	1891	714		600	_			736	2.300	2.500
Mercury (diss.filt)	0.07 MAC (1&2)			0.0025	0.0025			0.0025	0.0025	0.0025	0.0025	0.0025		0.0025	0.0025	0.0025						0.0025	0.0025	0.0025
Manganese (diss.fit) Molyhdenum (diss.fit)	123 (AA) (MA 758 1) 70 (A) 2	276.92		16800	17200			16500	16800	17233	16300	16600	17900	16500	18000	18400	_	10800	-			10300	3950	5060
Nickel (diss.filt)	A (MAC) (182)	14,98		52.90	54.20			51.90	47.00	47.65	57.10	52.70	58.28	49.80	55.10	55.30		12.30	_			16.50	6.96	7.13
Lead (diss.filt)	1.2 (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64		10	10			10	0.125	10	0.125	0.125	0.125	0.125	0.125	0.125		0.125				0.125	10	10
Antimony (diss.filt) Selenium (diss.filt)	5 (5) 10(5)	10		0.50	0.50			6.91	0.37	0.24	0.38	0.32	0.42	0.27	0.43	0.31	_	0.39	_	0.10	0.10	0.46		-
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (************************************	10 37.15		6.29	3.86			2.20	0.50	2.07	1.47	1.48	2.49	1.67	0.50	1.02		0.50	1	0.20	0.10	0.50	1.00	3.76
Iron (Total)											11654	7899	9600	13700	15600	9961		69100				108000		420
Manganese (Total) Chromium III (diss filt)	4.7 (AA) (1) 95th%ile (32)			0.46	0.75			0.60	0.60	0.57	16900 0.74	16800 0.69	17900 0.82	17900 0.63	17000 0.88	19900 0.71	_	11500	_			12400	41	050
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)			0.025	0.025			0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025				0.025	0.025			
Aluminium (diss.filt) Vanadium (diss.filt)		1		20	20			20	20 0.298	20	20	20 0.125	20 0.659	20	20	20 0.279		50	1	1		50 0.125	20	20
Vanadium (diss.filt) Phenols	ug/I								0.298	0.125	0.602	0.125	0.659	0.125	0.436	0.279		0.125				0.125		
Phenois, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2)		50.00	22.50		100.00				22.50				22.50	22.50	300.00			10.00				22	2.50
Speciated TPH Aliphatics	ug/l																							
EC CS-C6	15000 (7)	+	10	10	+	10	10	1	10	10				10	10	10		+	+	10	10			10
EC>C6-C8	15000 (7)		12.5	12.5		12.5	12.5		12.5	12.5				12.5	12.5	12.5				12.5	12.5		1	12.5
EC>C8-C10 EC>C10-C12	300 (7) 300 (7)	+	7.5 80	7.5	+	7.5	7.5	+	7.5	7.5	 			7.5	7.5	7.5	_	+	+	7.5	7.5	-		7.5 5
FC>C12-C16	300 (7)		5	5		5																		5
EC>C16-C21			5	5		5																		5
EC>C21-C35 EC>C35-C44		-	5	5	+	5		-		-				-			_	+	+	-	-	1		5
Aromatics FC CS-C7																								
EC CS-C7 EC>C7-C8	10 (7) 700 (7)		1	1		5.64	1		1	1				2.5	2.5	1				2.5	1			2.5
EC>C8-C10	300 (7)		2.5	2.5	+	2.5	2.5		2.5	2.5				2.5	2.5	2.5	_			2.5	2.5 25			2.5
EC>C10-C12	90 (7)		30	5		5																		5
EC>C12-C16 EC>C16-C21	90 (7) 90 (7)		180 260	5		5													_					5
EC>C21-C35	90 (7)	_	5	5		5								1				1	1					5
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		0.50	0.50		5.64	0.50		0.50	0.50				0.50	1.02	0.50			1.30	0.50	0.50			0.50
I oluene Ethylbenzene	74 (AA) 95th title (380) (1), 74 (AA) 95th title (370) (2)	_	0.50 0.50	0.50 0.50		0.50	0.50		0.50 0.50	0.50				0.50	0.50	0.50	_		0.50	0.50	0.50		0	0.50 0.50
p/m-Xylene			1.00	1.00		1.00	1.00		1.00	1.00				1.00	1.00	1.00			0.50	1.00	1.00		1	1.00
o-Xylene Sum of detected Xylenes	500 (8)		0.50 1.50	0.50 1.50		0.50 1.50	0.50 1.50		0.50 1.50	0.50 1.50				0.50 1.50	0.50 1.50	0.50 1.50			0.50	0.50	0.50		0	0.50
Polyaromatic Hydrocabons	ug/l		1.50	1.50		1.50	1.50		1.50	1.50				1.50	1.50	150								
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)		0.100	2.006		0.004				0.123				0.611	1.441	2.582			0.500	0.004	0.004		0.	.014
Acenaphthylene (aq) Acenaphthene (aq)	:		0.034	0.296 0.142		0.002				0.002				0.085	0.231	0.152 0.124	_	-	_	0.002	0.002 0.055			.002 .023
Fluorene (aq)	-		0.040	0.514		0.002				0.018				0.041	0.117	0.066				0.036	0.036		0.	.027
Phenanthrene (aq)	0.1 (AA & MAC) (1 & 2)		0.047	0.338		0.003				0.110				0.111	0.083	0.324				0.015	0.015		0.	.025
Anthracene (aq) Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)	-	0.003 0.029	0.016 0.142	+	0.003		-		0.008				0.073	0.050	0.021 0.125	_	+	+	0.016	0.016	1	0.	.005 .017
Pyrene (aq)			0.030	0.187		0.001				0.070				0.028	0.078	0.089				0.014	0.014		0.	.017
Benzo(a)anthracene (aq) Chrysene (aq)		1	0.002	0.001 0.004	+	0.001		1		0.006	$\vdash = \exists$			0.002	0.001	0.001		 	1	0.001	0.001	\vdash	0.	001
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)	1	0.002	0.002	+	0.001		1		0.007				0.003	0.001	0.001		1	1	0.001	0.001		0.	.001
Benzo(k)fluoranthene (aq)	0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.0017 (AA) (18.2) MAC (0.27 (1) 0.027 (2))	1	0.001	0.001	1	0.001				0.008				0.004	0.001	0.001		1	1	0.001	0.001		0.	.001
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	U.UUU17 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	+	0.001 0.001	0.001 0.004	+	0.001		1	-	0.012 0.013				0.005	0.001	0.001 0.001	_	+	+	0.001	0.001	1		001
Dibenzo(a,h)anthracene (aq)	-		0.001 0.002 0.001	0.002 0.002	1	0.001								0.002	0.002 0.002 0.002	0.002				0.002	0.002		0.	.003 .003
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	1	0.001	0.004		0.001				0.009				0.001	0.002	0.001			1	0.001	0.001		0.	J03
Dissolved Organic Carbon	mg/l		33.1	41	T	55.8	37.2		40.2	43.3	40.8	90.5	41.31		60	44.1 41	20	6.8				7	4	4.6
pH	6 - 9 (2&4)		7	7		6.8	6.8		6.8	6.7	6.8	7	6.8	6.9	6.9	6.8 8.2		7.2				7.1	7	7.3
Alkalinity (Total) Chloride	250 (5)	+	1059 87	1140	+	1277	1113 205	+	1069	1049	1264 231	1145 211	1173	1056	1438	1120 120 214 31		407 23	+	1	1	449 23		310 20
Ammoniacal Nitrogen	230 (3)	1	67	79.25	1	91.39	89.7	1	61.12	41.07	75.95	106.29	54.53	84.5	117.72	81.81 0.12	0.73	12	1	1	1	14	1	10.7
Nitrite			0.01	0.01		0.01	0.01		0.021	0.01	0.01	0.01	0.01	0.01	0.01	0.01 0.64		0.0025				0.0025		0025
Nitrate Sulphate	50 (5) 250 (5)	+	0.125	0.125 26.90	22.70	0.125	0.15	17.70	0.125 18.96	0.125 20.71	0.125 20.22	0.125 18.44	0.125 16.10	0.125 16.83	0.125 18.42	0.125 0.54 17.55	0.25	0.08 1.50	+	1	1	0.03	2.22	1.36
Sulphide	250(5)	1			11.70	1		17.70			10.11	40.77		10.03	20.42				1	1	1	3.33		
Calcium	1	1		207.00	203.00			191.00	199.70	191.31	218.00	180.00	177.00	168.00	218.00	182.00		112.00	1	1	1	113.00	73.80	78.60
Potassium Magnesium		-		70.20 63.30	76.60 74.40	 		70.50 60.10	65.98 59.44	61.66 56.12	76.51 66.93	69.38 56.71	74.84 58.53	62.17 54.37	89.92 79.20	72.56 59.01	_	16.90 15.50	+	1	1	17.40 15.80	11.60 9.01	13.30 9.51
Sodium	200(5)			201.00	282.00			192.00		180.38	204.00	197.00	192.00	177.00	258.00	201.00		31.20				27.50	27.50	22.60
Biochemical Oxygen Demand		1	2.1 87	2.7	1 -	4.0 200	2.7	1	2.2 105	2.7	2.8	4.0	2.5	2.5	4.7 166	1.5 108		1	1	1	1 -	4.5 69		2.5
Chemical Oxygen Demand Conductivity		+	2520	2830	+	3260	2690	1	2670	2630	2980	2760	2803	2558	3400	2743		863	+			904	6	532
Total Oxidisable Nitrogen Total Phosphorus			0.15	0.15 0.175		0.15	0.15 0.125		0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15		80.0				0.03	0	125
Lotal Phosphorus			0.125	0.125		0.125	0.125		0.125	0.125	0.125	0.125	0.125	0.125	0.38	0.125				1	1	0.4	0.	125

The Water Framework Directive (Pricetty Sobstances and Classification) Regulations (Northern Instand) 2015 Freshwater.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS).Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basis of autentional peaks.

Note: 1

Note: 1 (2000 our halde derived us the Metal Booussiability Assessment Tool (M. BAT) developed by WFDTAG. Look at receptor specific suseament using the Mrt.
Note: 1 (2000 our halde to derive at 100 referred to a 11th WFLCE storing at the first wards to eight noursely fiver trake metal behaviorability assessment tool on boat.

Note: 2 (2000 our halde derived us the Metal Booussiability Assessment Tool (M. BAT) developed by WFDTAG. Look at receptor specific assessment using the Mrt.
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March Marc																							
March Marc		TSV		вноѕ																			
March Marc	HEAVY METALS	ua/I	17/10/2018	19/10/2018 09/01/2019 22/01/2019	11/04/2019 01/05/201	9 05/07/2019	23/07/2019 15/10/2019	24/10/2019	19/02/2020	04/03/2020	06/10/2020	19/04/2021	03/08/2021	03/11/2021	31/01/2022	20/07/2016 09/08/2016	27/09/2016	17/04/2018	27/06/2018	28/06/2018	03/10/2018	17/10/2018	19/10/2018
The state The	Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10.00	26.40	33.10	38.90		10.00		10.00	9.85	11.74	14.70	14.64			10.00	10.00		10.00		
Second 1.00																							
The column The		1 (A A) bioxycitable (see Note 1) (4) (see Note 4) (4)	24.04	2,500																			
The column The	Iron (diss.)	1 (AA) bloavallable (1) (2) 1000 (AA) (1&2)	34.54																				$\overline{}$
March Marc	Mercury (diss.filt)	0.07 MAC (1&2)		0.0025		0.0025			0.0025		0.0025		0.0025	0.0025					0.0025		0.0025		
The control of the	Manganese (diss.filt)	123 (AA) (*** *****************************	276.92	5100	6220	5600	5360		5660		3896	4150	2746	3438	3504			168000			123000		
Column C	Molybdenum (diss.hit)	70 (8) ?	14.98	7.00	9.70	762	10.20		20.50		9.55	6.12	6 1 7	4.90	s ne			92.60	21.00		CC CA		
Second Column 19	Lead (diss.filt)	1.2(MAC) (1), 0.0 (AA) (2), 14 (MAC) (182)	9.64						10									10	10				
The column 1	Antimony (diss.filt)																						
Column C	Selenum (diss.hit)		10 27.15	1.00														43.00	40.00		40.00		
Transfer of the column Col		10.5 (AA) (1) TADO DIOSTSINOS OS (AA) (2) TADO	07.10	1.00	1.00	1.00	2.36		1.00		3.02							71300	40.00	30600	40.00		$\overline{}$
Transfer of the column Col													2922		3640			166000					
Column C		4.7 (AA) (1) 95th%ile (32)																					
Property Property		3.4 (AA) (1), 0.0 (AA) (2), 32 (BBIT BIG) (2)		20		20			20				20	20				20	20		20		$\overline{}$
Ministry 1,000 1	Vanadium (diss.filt)			20									0.125										
Control Cont		ug/l																					
March Marc	Phenois, Total			22.50 22.50	22.50	_	22.50	22.50		22.50	22.50	22.50	22.50	22.50				22.50		22.50			22.50
## CASC 1980 10 10 11 11 11 12 13 14 15 15 15 15 15 15 15	Aliphatics	-																					$\overline{}$
Cold 190	EC C5-06	15000 (7)		10 10									10	10									10
## COSCION #9.00 Coscion #9.00	EC>C6-C8	15000 (7)		12.5 12.5	12.5						12.5			12.5				12.5		12.5			12.5
## COLOR 1	EC>C10-C12				7.5		7.3	5		5	7.5	7.5	7.3	7.5				7.3		7.5			120
Column C	EC>C12-C16	300 (7)		5 5																			110
## COUNTY 1 1 1 1 1 1 1 1 1																							10
## PROPRIES 1						_	5	5		5								5					30
CCCCCC 1907	Aromatics			1 1			1																
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	EC C5-C7										1		1										
CCCC121							2.5			2.5	2.5	2.5	2.5	2.5									2.5
Colored Color Co	FC>C10-C12			10 5	5		20	5		5								5		5			120
## CC-1/CS					5		50	5		5								5					350
March Marc	EC>C16-C21							5		5								5					
Total Continues Continue		10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)						- 5		0.50	0.50	0.50	0.50	0.50				4.40					3.86
## Company of the Com	Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		0.50 0.50																0.50			0.50
Accordance Soft S		300 (8)																		0.50			0.50
Accordance Soft S				1.00 1.00	1.00	_	1.00			1.00		1.00	1.00	1.00				1.00		1.00			1.00
Augstrages (a)	Sum of detected Xylenes						1.50					1.50	1.50	1.50									
Accordant (a) Control		μg/I																					
Compression Compression	Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)					0.004			0.013	0.286												
Proceedings Control	Acenaphthene (aq)																						0.007
## Affreces (a)	Fluorene (aq)	•		0.065 0.062			0.055	0.308										0.003					0.003
Proceedings	Phenanthrene (aq)	0.1 (AA & MAC) (1.8.2)																					0.003
Proce Col.		0.0063 (AA) (1 & 2) 0.12 (MAC 1)		0.059 0.126			0.032	0.031															0.003
Organic (a)	Pyrene (aq)	-		0.064 0.123	0.404		0.028	0.164		0.001	0.061	0.019		0.109				0.001		0.005			0.007
Bestivity Best				0.022 0.165	0.064		0.009	0.064		0.001	0.020	0.003	0.005	0.131				0.001		0.001			0.001
Description Company	Benzo(b)fluoranthene (ag)	0.017 (MAC) (1&2)			0.027						0.022												0.001
Description Company	Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2)		0.001				0.101		0.001	0.022	0.002	0.002	0.074				0.001		0.001			0.001
Demos(A) Perference (a)	Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))																					0.001
NOIGHICS mg ST ST ST ST ST ST ST	Dibenzo(a,h)anthracene (aq)			0.003 0.113	0.042		0.041											0.002					0.002
Description 1.2 1.7 1.4 1.7 1.5 1.	Benzo(g,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		0.004 0.108	0.029		0.018	0.034		0.001	0.021	0.001	0.002	0.042				0.001		0.001			0.001
## 6-9(244)		mg/I		6.7			6.7	6.1			6.3	3.1		3.0	43	44 34		43.4		40.7		43.4	
Abbrief Carl Page		6 - 9 (2&4)				+		7.4	+ +				7.2				5.8			~U./			-
Chocke	Alkalinity (Total)		299	320				371			298					140 180		176		160		189	
Name	Chloride	250 (5)	27			1 -		30	1 7							1100 910		868		886	1	783	-
Minde 90 0.00 0	Ammonacai Nitrogen Nitrite		0.005	10.4	10.3		0.125	0.01	1	0.01	0.13	0.75	0.01	0.63	0.22	0.058 0.01	0.005	0.022		0.0025	-	0.005	
Solido	Nitrate	50 (5)	0.03	0.03	0.15		0.01	0.41		0.125	0.125	0.125	0.125	0.125	0.125			0.03		0.03		0.03	
Critical BP37 10700 19500 19600 19400 19490 19	Sulphate	250 (5)		3.25	8.15	9.38	13.70		16.80		5.80	3.27	1.71	1.67	2.47			50.50	60.60		79.10		
Petassum 1310 1230 1400 1370 1990 1911 270 8.99 1936 8.11 1.55 140 0.88	Sulphide Calcium		+	89.70	102.00	105.00	100.00	+	104.00		89.89	76.55	67.10	79.36	79.32		 	132.00	122.00		109.00		
Soften 2009 123.0 13.0 13.0 13.0 13.0 13.0 17.0 17.0 14.11 14.51 15.24 15.14 15.24 15.14 15.25 15.14 15.25 15.	Potassium				12.80	14.00	13.70		10.90		10.11	8.70	8.09	10.36	8.11			1.25	1.07		0.88		
Biothermical Operand 2.5 1.0 2.5 1.5 2.5 1.5 2.5 1.5 2.5 1.5 2.5 1.5 2.5 1.5 2.5					12.10		13.00	1	13.40								-	36.50	34.90		33.70		
Central Control 19 19 19 19 19 19 19 1		200(5)	+		19.40	35.80		1.5	17.50	2.5							+		316.00	6.7	340.00	4.0	
Conductivity 5 616 687 741 884 938 777 644 548 491 571 557 3306 300 2959 717 1701 (April 40 1978 947 947 947 947 947 947 947 947 947 947			10	10	2.5	+		10	1 1	10	10			10	10		t	480		370	-		
Teld Obdishight Norm 0.03	Conductivity		616	687														3106		3010		2950	
1010 U.S. U.	Total Oxidisable Nitrogen Total Phoenhorus		0.03			-	0.15		+				0.15				-				<u> </u>		$\overline{}$
	i otal Phosphorus		0.125	0.125	0.125		0.125	0.125		0.40	0.125	0.125	0.125	0.125	U.3		1	u.8b		0.26		0.123	

The Water Framework Directive (Priority Substances and Casoffication) Regulations(Roothen Ireland; 2015 Freshwater.
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MAC. This yearneter is the forecommental quality Standard expressed as a maximum allowable concentration (MAC-EQS) where the MAC-EQS are marked as "not applicable", the AA-EQS subseasor considered protective against where term pollution peaks in continuous discharges since they are significantly lower than the value delivers on the basis of acutes tooks.

Note:

Note: 1-Collocovalable derived via the Metal Bioavailability Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-Batt of Collocoval Colloc

Sample Point /		MBAT PNEC																					
Determinands	TSV	(ug/l)					ВН06																
HEAVY METALS	µg/I	09/01/2019	14/01/2019 11/04/2019	29/04/2019 01/05/2019	05/07/2019	22/07/2019	15/10/2019 23/	10/2019 19/0	12/2020	24/02/2020	25/02/2020	01/07/2020	22/07/2020	27/07/2020	30/07/2020	26/08/2020	05/10/2020	23/11/2020	17/02/2021	14/04/2021	28/07/2021	01/11/2021	26/01/2022 20/07/2016
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)	10.00	10.00		10.00		10.00	10	0.00						10.00	4.03	10.00	4.62	4.66	4.34	4.71	5.28	4.98
Cadmium (diss.filt) Chromium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l	1.000 14.600	1.000 1.930		1.000 0.680		1.000 0.580	1.	.000						2.440 32.700	0.025	1.000 0.344	0.210	0.153	1.435 0.644	0.170	0.025 0.318	0.061
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94 20.876	14.700		15.700		9.870		.420						31.900	0.125	6.316	0.333	0.318	1.345	0.250	0.371	0.329
Iron (diss.)	1000 (AA) (182) 0.07 MAC (182)	29200	24300		32200		31400		1100						36100	49800	40940	36600	34700	34100	31000	37900	40700
Mercury (diss.filt) Manganese (diss.filt)	0.07 MAC (182) 123 (AA) (*** 700**)	0.0025 276.92 152000	0.0025		0.0025		0.0025	0.0	0025						0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Molybdenum (diss.filt)	70 (8) ?		10,000		131000		14000		,,,,,						110000	10,000	103113	85300	54000	30700		70.00	73200
Nickel (diss.filt) Lead (diss.filt)	4, (AA) (1), 8.6 (AA) (2), 34 (MAC) (1&2) 1.2(MA DOM D) (AA) (1), 1.3 (AA) (2), 14 (MAC) (1&2)	14.98 55.20 9.64 10	57.40 20.2		57.20		54.40	16	6.00						36.70	30.40 0.125	30.38	32.30 0.125	30.50 0.125	32.47 0.750	34.30 0.082	30.20 0.125	27.20 0.125
Antimony (diss.filt)	5 (5)				10		10		10						10		10						
Selenium (diss.filt) Zinc (diss.filt)	10(5) 10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (MA) (2)	10 37.15 26.60	0.50 41.70		0.50		0.50		0.50						16.60	0.61 8.12	0.29 13.95	0.53	0.60 15.25	0.64	0.45 13.90	0.50 8.55	0.49
Iron (Total)	10.9 (AA) (1) +ABC bloavallable 0.0 (AA) (2) +ABC	37.15 26.60	41.70		32.20		27.50	9	9.93						23.60	8.12	13.95	13.60 39700	35500	19.85 36400	13.90 34400	8.55 39800	9.00 41700
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)																	92800 0.33	82600	94700 0.64	86900 0.34	78500	70500
Chromium III (diss.hit) Chromium VI (diss.fit)	4.7 (AA) (1) 95th%ile (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.97		0.34		0.29		0.26						0.36	0.43	0.34	0.33	0.32	0.64	0.34	0.32	0.33
Aluminium (diss.filt)	21.0-9 (-), 21.0-9 (-), 2-0-1-1-1 (-)	20	20		20		20		20						20	20	20	20	20	20	20	20	20
Vanadium (diss.filt) Phenols	ug/I								-		_				_	0.349	0.125	0.289	0.125	0.880	0.462	0.277	0.125
Phenois, Total	7.7 (1&2) 46 (95th%ile) (1&2)		22.50	22.50		22.50		130.00			130.00						250.00			22.50	60.00	22.50	22.50
Speciated TPH Aliphatics	ug/l																						
Aliphatics EC CS-C6	15000 (7)		10	10	1	10	 	10			10	10	10	10		10	10	10	10	10	10	10	10
EC>06-08 EC>08-010	15000 (7) 300 (7)		12.5	12.5		12.5		12.5			12.5	12.5	12.5	12.5		12.5	12.5	12.5	12.5	12.5	12.5	22.158	12.5
EC>C8-C10 EC>C10-C12	300 (7)		7.5 160	7.5		7.5 230		7.5			7.5	7.5	7.5	7.5		7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
EC>C12-C16 EC>C16-C21	300 (7)		5			90		5			5												
EC>C16-C21 EC>C21-C35			5 10			10 110		5			5												
EC>C35-C44			5			10		5	_		5												
Aromatics EC CS-C7	10 (7)		1									3.9	435			25.9			4 528				7.708
FC>C7-C8	10 (7) 700 (7)		2.5	2.5		4.1 2.5		2.5	_		19.4 2.5	3.9 2.5	4.35 2.5	4.2 2.5		25.9 2.5	66 2.5	5.462 2.5	4.528 2.5	3.73 2.5	3.34 2.5	2.5	7.708 2.5
EC>C8-C10	300 (7)		25	25								-23				2.3	- 23		2.3	2.3		- 2	- 13
EC>C10-C12	90 (7)		160			230 1200		5			5												
EC>C12-C16 EC>C16-C21	90 (7)		870			1000		5	-		5												
EC>C21-C35	90 (7)		880			860		5			5 19.40												7.47
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		4.91 0.50	0.50 0.50		4.10 0.50		2.50 0.50	_		0.50	4.00 0.50	4.35 0.50	4.20 0.50		0.50	0.50	5.19 0.50	4.46 0.50	3.63 0.50	3.28 0.50	0.50	0.50
Ethylbenzene	300 (8)		0.50	0.50		0.50		0.50			0.50	0.50	0.50	0.50		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
p/m-Xylene o-Xylene			1.00 0.50	1.00		1.00 0.50		1.00 0.50	_		1.00 0.50	1.00 0.50	1.00	1.00 0.50		1.00	1.00 0.50	1.00	1.00	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50
Sum of detected Xylenes	500 (8)		0.30	0.30		1.50		1.50			1.50	1.50	1.50	1.50			1.50	1.50	1.50	1.50		1.50	
Polyaromatic Hydrocabons	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)		0.055	0.041		0.040		1.817			0.323						1.820	0.024	0.442	0.039	0.300	0.384	0.412
Naphthalene (aq) Acenaphthylene (aq)	2 (AR) (1 82) 130 (MAC 182)		0.006	0.031		0.167		0.413	_		0.046						0.250	0.024	0.123	0.039	0.043	0.048	0.066
Acenaphthene (aq)			0.008	0.025		0.004		1.043			0.024						0.145	0.019	0.084	0.010	0.033	0.070	0.106
Fluorene (aq) Phenanthrene (aq)	-		0.002	0.007 0.007		0.055		0.196			0.004			-			0.015	0.004	0.026	0.015	0.011	0.052	0.075
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)		0.005	0.009		0.009		0.202			0.003						0.003	0.003	0.003	0.003	0.208	0.011	0.010
Fluoranthene (aq) Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)		0.013	0.005		0.007		0.055	_		0.002						0.040	0.006	0.007	0.001	0.153	0.014	0.008
Benzo(a)anthracene (aq)	<u> </u>		0.021	0.001		0.011		0.008			0.001						0.006	0.001	0.003	0.002	0.003	0.002	0.001
Chrysene (aq) Benzo(b)fluoranthene (aq)	0.017 (MAC) (18.2)		0.021	0.002 0.001		0.007 0.001		0.008			0.001 0.001		1				0.008	0.001	0.006	0.001	0.001	0.002	0.002
Benzo(k)fluoranthene (aq)	0.017 (MAC) (182)			0.001	1	0.001		0.012			0.001		t	h			0.007	0.001	0.004	0.001	0.005	0.002	0.001
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))		0.128	0.001		0.001		0.007			0.001						0.008	0.001	0.003	0.001	0.003	0.003	0.010
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq)	 		0.019	0.001	1	0.001		0.007			0.001		 				0.011	0.004	0.006	0.001	0.004	0.002	0.001
Benzo(q,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		0.019	0.001		0.004		0.006			0.001						0.002	0.002	0.005	0.001		0.001	
INORGANICS Dissolved Organic Carbon	mg/l		46	473		48.1		54.6		47.5				48.9		55.8	15.4	52.4	52.6	60.1		59.7	60.1 72
pH	6 - 9 (2&4)		6	6.1		6.2		6		6.3				5.9		6	6.1	6.1	6.1	5.9	5.9	6.1	6 7
Alkalinity (Total)			171	157		186 91		174 887		271				230		277	294	271	262 459	248	301	366	335 1200 541 290
Chloride Ammoniacal Nitrogen	250 (5)		1.18	910 0.2	!	0.69		0.74		631 0.77				735 0.6		764 1.14	1254 2.84	1.28	459 1.89	711 0.56	0.75	562 0.89	0.81 1.2
Nitrite			0.0025	0.01		0.01		0.01		0.01				0.01		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01 0.023
Nitrate Sulphate	50 (5) 250 (5)	66.60	0.03 80.30	0.15	84.10	0.125	92.00	0.125	4.00	0.125		-	-	0.15	152.00	0.125 129.44	0.125 137.43	0.125 102.79	0.125 136.89	0.125 154.14	0.125 213.33	0.125 217.63	0.125 0.25 158.56
Sulphide	230 (3)														131.00								
Calcium		108.00	105.00		103.00		91.90		0.30						79.20	81.76	79.77	71.05	65.09	62.70		61.85	54.63
Potassium Magnesium		1.24 32.60	1.19 33.50		1.39 32.70		1.59 29.70	23	3.70						1.66 25.10	2.79 25.97	2.25 25.78	2.37 24.25	2.69 22.38	2.10 21.30	1.14 19.49	2.34 20.71	2.16 18.83
Sodium	200(5)	323.00	350.00		394.00		405.00	33	34.00						465.00	447.90	444.12	414.00	443.00	475.00	460.00	461.00	482.00
Biochemical Oxygen Demand Chemical Oxygen Demand			8.1 56	5.7 57	1	4.5 56		4.4 58		7.6 141		-	-	6.8 51		6.8 53	8.9 45	5.4 58	4.0 59	5.3 174	4.3 173	11.0 55	5.3 59
Conductivity			3100	3140		3250		3160		2570				3020		3020	2980	2760	2870	2965	2780	2730	2701
Total Oxidisable Nitrogen Total Phosphorus			0.03	0.15	1	0.15		0.15		0.15				0.15		0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
i otai Phosphorus			U.125	0.125		U.125		U.125		U.125				U.39		U.125							

The Water Famework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Famework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Famework Directive (Priority Substances and Classification) Regulation (Northern Ireland) 2015 Transitional waters.
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MAC. This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EQS), Where the MAC EQS are marked as "not applicable", the AA-EQS values are considered protective against abort term pollution peaks in continuous discharges since they are significantly lower than the values defined on the basic of acute

Note: CODDonatable derived us the Metal Boardability Assessment Tool (M-BAT) developed by WTDTAL Look at recogator specific assessment using the M-DAT (M-DAT) and the Metal Boardability Assessment Tool (M-BAT) developed by WTDTAL Look at recogator specific assessment using the M-DAT (M-DAT) and the Metal Boardability Assessment Tool (M-BAT) developed by WTDTAL Look at recogator specific assessment using the M-DAT tool winds Jou Cana Can Look and the Metal Boardability Assessment Tool (M-BAT) developed by WTDTAL Look at recogator specific assessment using the M-DAT tool winds Jou Cana Cana Look and L

Historical Data Review (EMP Quarterly Monitoring Data = 2017 - 2022)

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Sample Point / Determinands	TSV	MBAT PNEC (ug/l)															BH07							
HEAVY METALS Arsenic (diss.filt)	μη/I 50 (AA) (1) 25 (AA (2)		09/08/2016	27/09/2016	09/01/2017	10/01/2017 11/01/2017 12.50	06/03/2017	08/03/2017	18/07/2017 12.50	15/08/2017	31/08/2017	25/10/2017 12.40	11/01/2018	12/01/2018	12/04/2018 17/04/2018 10.00	27/06/2018	03/10/2018 10/10/2018 10:00	12/10/2018	10.00	23/01/2019	11/04/2019 24 10.00	/04/2019 05/07/2019 10.00	17/07/2019	15/10/2019 10:00
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l					5.000			0.125			0.025		1.000	1.000		1,000	+	1.000		1,000	1.000	++	1.000
Chromium (diss.filt)	50 (5)					12.500			0.257	0.946	0.946	0.324		2.500	2.500		2.500		2.500		4.020	3.300		1.000 2.900
Copper (diss.fit)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94				10.000			0.310			0.500		2.500	2.500		33.800		10.693		43.000	20.800		12.800
Iron (diss.) Mercury (diss.filt)	1000 (AA) (182) 0.07 MAC (182)					7250			50			168		4580	273		49100		15400		52900	37100		20700
Manganese (diss.filt)	123 (AA) (*********************************	276.92				0.0025 12400			0.0025 11400			0.0025 7660		7090	0.0025 7990		0.0025 2980		0.0025 2400		0.0025	0.0025 1490	+	0.0025 1320
Molybdenum (diss.filt)	70 (8) ?																							
Nickel (diss.fit)	4 (AA) (1), 8.6 (AA) (2), 34 (MAC) (1&2)	14.98				12.50			20.00			19.50		18.60	22.10		20.90		21.80		31.30	23.30		23.10
Lead (diss.filt)	1.2 ^(100 TOSE 1) (AA) (1), 1.3 (AA) (2), 14 (MAC) (1&2)	9.64				12.5			0.125			0.125		10	10		10		10		10	10		10
Antimony (diss.filt) Selenium (diss.filt)	5 (5)	10							1.53	0.10	0.10	2.84									0.50	0.50	+	0.50
Zinc (diss.filt)	10.9 (AA) (1) +ABC bloavailable 6.8 (AA) (2) +ABC (************************************	10 37.15				10.00			0.50			0.50		2.23	2.10		4.74		2.62		5.27	4.57	1	3.56
Iron (Total)						9220		12200	10900			11423	17200		14200									
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th1@le (32)					12600		12300	10300			10100	9160		8160						201	1.65		1.45
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th*sile) (2)									0.025	0.025							+		-	0.025	0.025	+	0.025
Aluminium (diss.filt)						50			50			50		20	20		20		20		20	20		0.025 20
Vanadium (diss.filt)									0.125			0.125												
Phenois Phenois, Total	ug/l 7.7 (182) 46 (95th%ile) (182)																	22.50		22.50		22.50	380.00	_
Speciated TPH	7.7 (1&2) 46 (95th%le) (1&2)																	22.50		22.50		22.30	380.00	
Aliphatics EC CS-C6	,																							
	15000 (7)				25		25			10	10		10		10			10		10		10	10	
EC>C6-C8 EC>C8-C10	15000 (7) 300 (7)				30 0.05		30			12.5 7.5	12.5		12.5 7.5		12.5 7.5			12.5 7.5		12.5		12.5	12.5 7.5	
EC>C10-C12	300 (7)	_			3.5		0.05			7.3	7.3		/3		5			50		60		120	120	
EC>C12-C16	300 (7)				5		5						5		5			5		5		80	5	
EC>C16-C21					2.5		2.5						5		5			5		5		80	5	
EC-C21-C35 EC-C35-C44					10		10 2.5						5		5			60		5		10	5	
		_			2.5		2.5						- 5		5			- 5		5		5		
Aromatics EC CS-C7	10 (7)				0.025		0.025			1	1		1		1			1		1		1	4.6	
EC>C7-O8	700 (7)				0.025		0.025			2.5	2.5		2.5		2.5			2.5		2.5		2.5	8.9	
EC>C8-C10 EC>C10-C12	300 (7) 90 (7)				0.025 3.5					25	25		25		25 5			25 50		25 60		25 120 210	420	
EC>C12-C16	90 (7)	_			3.3		3								5			100		110		210	120 300	
EC>C16-C21	90 (7)				15		15								5			140		110		210	300	
EC>C21-C35	90 (7)				15		15								5			60		50		70	5	
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		_	_						0.50	0.50							3.47 0.50		3.85 0.50		0.50	4.60 0.50	$\overline{}$
Ethylbenzene	300 (8)									0.50	0.50							0.50		0.50		0.50	3.50	
p/m-Xylene										1.00	1.00							1.60		2.70		1.00	3.50	
o-Xylene Sum of detected Xylenes	500 (8)									0.50	0.50							0.50		0.50		0.50	1.90 5.40	
Polyaromatic Hydrocabons	μg/l																						5.40	
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)									0.004	0.004		0.169		0.135			23.596		19.281		21.951	0.010	
Acenaphthylene (aq)										0.005	0.005		0.077		0.054			0.120		0.137		0.264	0.085	
Acenaphthene (aq) Fluorene (aq)	<u> </u>	_								0.332	0.332		0.294		0.283 0.313	_		10.725 3.122		18.687 5.373		26.402 4.010	0.450 0.552	_
Phenanthrene (aq)										0.026	0.026		0.011		0.022			2.139		2.256		3.270	2.103	
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)									0.026	0.026		0.003		0.011			0.182		0.300		0.553	0.362	
Fluoranthene (aq) Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)									0.028	0.028		0.026		0.020			0.046		0.202		0.560 0.879	0.444	
Benzo(a)anthracene (aq)		_								0.034	0.034		0.037		0.030	_		0.069		0.277		0.879	0.672	_
Chrysene (aq)	<u> </u>									0.001	0.001		0.001		0.001			0.001		0.117		0.101	0.150	
Benzo(b)fluoranthene (aq)	0.017 (MAC) (18-2)	1								0.001	0.001		0.001	_	0.001			0.001		1		0.204	0.249	
Benzo(k)fluoranthene (aq) Benzo(a)pyrene (aq)	0.017 (MAC) (182) 0.010 (MAC) (182) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	+	+	+				+		0.001	0.001	 	0.001		0.001 0.001	1		0.001		0.702		0.099 0.231	0.183	$\overline{}$
Indeno(1,2,3-cd)pyrene (aq)	0.00017 (AA) (1 0.1) FAC (0.17 (1) 0.017 (2))			-						0.001	0.001		0.001		0.001			0.007		0.071		0.401	0.348	
Dibenzo(a,h)anthracene (aq)	-									0.002	0.002 0.001		0.002 0.001		0.002 0.001			0.009		0.086		0.013 0.481		
Benzo(g.h.i)pervlene (ag)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)									0.001	0.001		0.001		0.001			0.009		0.079		0.481	0.431	
INORGANICS Dissolved Organic Carbon	mg/l		70	14		23.1		27.1	20.7			23.6	31.9		26.8	25.2	32.7			36.2		53.2	54.6	
pH pH	6 - 9 (284)	+	7.1	7.2		43.4		7.8	7.8		1	23.b 8.3	8.2		7.3	25.2 7.5	7.7	+	t	36.2 6.9	t - t	7.1	7.1	
Alkalinity (Total)			1800	220		603		634	594			611	683		658	644	1158			1160		1505	1458	
Chloride	250 (5)	1 -	240	38		175		191	168			196	260		231	242	84			86		111	62	
Ammoniacal Nitrogen Nitrite	+	+	1.9 0.01	0.014		20.5 0.006		22.2 0.006	14.3 0.0025		1	17 0.0025	28 0.0025		31 0.013	29.7 0.0025	141 0.036	+		142 0.036		0.96 0.01	190 0.01	
Nitrate	50 (5)	+	0.01	0.25		0.03		0.006	0.0025		1	0.0025	0.0025		0.6	0.0025	0.03	+	t	0.03		0.01	0.125	
Sulphate	50 (5) 250 (5)								1.50			6.24		6.25	6.44		3.90		3.82		5.06	5.21		18.40
Sulphide	<u> </u>																				L		+	
Calcium Potassium		+	-			148.00 30.40		-	150.00 30.80		1	138.00 34.60		137.00 41.50	129.00 38.10	1	163.00 93.70	+	143.00 92.30	1	181.00 97.40	160.00 109.00	+	130.00 105.00
Magnesium		1	t	1		35.40		t	39.50		1	40.80		47.60	45.30	1 1	34.20	+	33.70	1	43.70	42.60	+	41.10
Sodium	200(5)					110.00			151.00			141.00		150.00	173.00		85.10		89.50		124.00	110.00		105.00
Biochemical Oxygen Demand		1						1			1	2.5	4.7	_	6.6	3.4	2.5	1		5.0		8.6	6.9	-
Chemical Oxygen Demand Conductivity		+	 	 				 	1615		1	77 1771	87 2103		79 1973	58 1932	44 2482	+	 	121 2550		214 3180	146 3000	
Total Oxidisable Nitrogen		+	 	+ +		0.03		0.03	0.07		1	0.03	0.03		0.61	0.03	0.03	+	 	0.03	 	0.15	0.15	
Total Phosphorus												0.125	0.125		0.125	0.125	0.61			0.8		0.125	0.89	

The Water Framework Directive (Priority Substances and Cassification) Regulations(Northern Ireland) 2015 Freehwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations(Northern Ireland) 2015 Transitional valets.
 The Water Framework Directive (Priority Substances and Cassification) Regulations(Northern Ireland) 2015 Transitional valets.
 The Cassification (Priority Substances and Cassification) Regulation (Priority Substances) and Groundwater threshold values (Water Framework Directive)
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of acutestoric.

Most : Collaboration devined as the Metal Biosvalidability Associated Tool (M. MAT) developed by WIDTAG. Look at receptor specific association studies the Metal Biosvalidability Association Tool (M. MAT) developed by WIDTAG. Look at receptor specific association studies the Metal Biosvalidability Association Tool (M. MAT) developed by WIDTAG. Look at receptor specific association studies and the Metal Biosvalidability Association Tool (M. MAT) developed by WIDTAG. Look at receptor specific association studies the Metal Biosvalidability Association Tool (M. MAT) developed by WIDTAG. Look at receptor specific association studies the Metal Biosvalidability association and the Tool (M. MAT) developed by WIDTAG. Look at receptor specific association studies to the Material Tool (M. MAT) developed by WIDTAG. Look at receptor specific association studies to the Material Tool (M. MAT) developed by WIDTAG. Look at receptor specific association studies to the Material Tool (M. MAT) developed by WIDTAG. Look at receptor specific association studies to the Material Tool (M. MAT) developed by WIDTAG. Look at receptor specific association studies and specific association studies and specific association studies and specific association studies and specific association studies and specific association studies and specific association studies and specific association studies and specific association studies and specific association studies and specific association studies and specific association studies and specific association studies and specific association studies and specific association studies and specific association studies and specific association studies and specific association studies and specific association studies and specific association and specific association and specific association and specific association and specific association and specific association and specific association and specific association and specific association and specific association and specific association and specific association a

Sample Point /		MBAT PNEC																							
Determinands	TSV	(ug/l)											В	H1 (Lynches)					BH1 Drumahor						
HEAVY METALS	μg/l		30/10/2019	19/02/2020 2	26/02/2020	12/10/2020	12/04/2021	26/07/2021	04/11/2021	01/02/2022	28/05/2019	31/05/2019	05/07/2019	24/07/2019	15/10/2019 0	5/11/2019 06/	11/2019 27/	4/2021 04/0	3/2021 11/08/20	21 08/11/2021	03/02/2022	11/04/2019	24/04/2019 05/07/2	019 16/07/2019	15/10/2019
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)			10.00		10.00	11.13	9.46	7.36	7.52		10.00	10.00		10.00				33	0.13		10.00	10.0	1	10.00
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l			1.000		1.000	0.025	0.025	0.025	0.025		1.000	1.000		1.000				025	0.025	0.025	1.000	1.00		1.000
Chromium (diss.filt)	50 (5)		+	1.600 11.400		1.201 5.883	1.035 0.125	1.116 0.250	0.813	1.230 0.337		2.500 2.500	0.250 2.500		0.250 2.500				125 500	0.125	0.125	0.548 2.500	0.25 2.50		0.250 2.500
Copper (diss.filt) Iron (diss.)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94	+	11.400 33000		5.883	0.125	0.250	0.125 25100	0.337 231		2.500	2.500	 	2.500				500	0.825	0.125	2.500	2.50		2.500 879
Mercury (diss.fit)	0.07 MAC (182)			0.0025		0.0025	0.0025	0.0025	0.0025	0.0025		0.0025	0.0025		0.0025			0025 0.		0.0025	0.0025	0.0025	0.00		0.0025
Manganese (diss filt)	123 (AA) (*********************************	276.92		1880		1710.200276	1910	1722 674823	1839.966861	1658.850712		13000	14900		11600				472688	5	5	2870	265		2630
Manganese (diss.filt) Molybdenum (diss.filt)	70 (8) 2																								
Nickel (diss.fit)	4(MAC) (1&2)	14.98		19.10		16.94	12.16	15.30	8.41	16.60		2.50	2.50		2.50				.98	0.39	0.44	2.50	2.50		2.50
Lead (diss.filt)	1.2(MAČ) (1), 1.3 (AÁ) (2), 14 (MAČ) (1&2)	9.64		10		10	0.125	0.025	0.125	0.125		10	10		10			125 0	125	0.125	0.125	10	10		10
Antimony (diss.filt)	5 (5)	- 40		0.50		0.43	0.42	0.33	0.24	0.30			0.50		1.30			0.26	37	0.28	0.10	0.50	0.50		0.50
Selenium (diss.filt) Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (MARCO)	10 37.15	_	4.30		2.62	0.50	0.25	0.50	0.50		1.00	1.00		1.00				50	0.50	0.50	7.77	5.77		4.86
Iron (Total)	10.5 (AA) (1) TABO BIOSTISSIBOR 0.5 (AA) (2) TABO	07.10	_	4.30		2.02	37300	24900	57400	60300		1.00	1.00		1.00				600	15400		1.11	3.74		4.00
Manganese (Total) Chromium III (diss.filt)							2080	1892,778422	2133,449701	2414.221241							558		870248	614.426376	293.3617222				-
Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)			0.80		1.20	1.04	1.10	0.81	1.20			0.25		0.25			0.13	.13	0.13	0.13	0.27	0.2		0.25
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)			0.025		0.025	0.025	0.025	0.025	0.025			0.025		0.025				025	0.025	0.025	0.025	0.02		0.25 0.025
Aluminium (diss.filt)		_	1	20		20	20	20	20	20		20	20		20			20	20	20	20	20	20		20
Vanadium (diss.filt)		_				1.019	0.820	1.014	0.574	0.782								125 0	125	0.125	0.125				
Phenois Phenois Total	ug/l 7.7 (182) 46 (95th%ile) (182)		210.00		22.50	240.00	250.00	72.50	190.00	22.50				22.50			22.50	2.50	22.50	22.50	22.50		22.50	22.50	
Speciated TPH	7.7 (182) 46 (95th falle) (182) ug/l		210.00		22.30	240.00	250.00	22.50	160.00	22.50				22.50			22.30	2.30	22.50	22.50	22.50		22.30	22.50	
Speciated TPH Aliphatics EC CS-C6																					_				_
EC CS-06	15000 (7)		10		10	10	10	10	10	10				10			10	10	10	10	10		10	10	+
FC>C6-C8	15000 (7) 300 (7)		12.5		12.5	12.5	12.5	12.5	12.5	12.5				12.5			12.5	12.5	12.5				12.5	12.5	
EC>C8-C10			7.5		7.5	7.5	7.5	7.5	7.5	7.5				7.5			7.5	7.5	7.5		7.5		7.5	7.5	
EC>C10-C12	300 (7)		5		5									5			5				_		5	30	\bot
EC>C12-C16 EC>C16-C21	300 (7)		5		5									5			5						20	20	
			5		5									5 60			5						20	20 60	
EC>C21-C35 EC>C35-C44			5	+	5									10			5			_			5	5	
														20			,								_
Aromatics EC CS-C7	10 (7)		4.5		4.53	4.67	3.992	3.689	3.097	4.318				1			1	1	1	1	1		1	1	
EC>C7-C8	700 (7)		2.5		2.5	5.42	2.5	2.5	2.5	2.5				2.5			2.5	2.5	2.5	2.5	2.5		2.5	2.5	
EC>C8-C10	300 (7)																						25		
EC>C10-C12 EC>C12-C16	90 (7)		5		5									5			5						5	30 30	
EC>C12-C16 EC>C16-C21	90 (7)		5		5									5			5						5		
EC>C21-C35	90 (7)		5		5					_				5			5						5	20	+
Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)		450		453	4.73	3.74	3.48	2.76	3.98				0.50				150	0.50	0.50	0.50		0.50	0.50	
Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		0.50		0.50	0.50	0.50	0.50	0.50	0.50				0.50			0.50	0.50	0.50	0.50	0.50			0.50	_
Ethylbenzene	300 (8)		0.50		0.50	2.05	0.50	0.50	0.50	0.50				0.50			0.50	0.50	0.50		0.50		0.50 0.50	0.50	
p/m-Xylene			1.00		1.00	2.24	1.00	1.00	1.00	1.00				1.00			1.00	1.00	1.00		1.00		1.00 0.50	1.00	
o-Xylene			1.00		1.20	0.50	0.50	0.50	0.50	0.50				0.50				0.50	0.50		0.50		0.50	0.50	
Sum of detected Xylenes	500 (8)		1.50		3.04	1.50	1.50	1.50	1.50	1.50				1.50			1.50	1.50	1.50	1.50	1.50			1.50	
Polyaromatic Hydrocabons Naphthalene (aq)	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)		50.313		1.434	49.727	26.701	3,697	2.231	7.487				0.035			0.627	041	1 233	0.118	0.095	_	0.088	0.035	_
Acenaphthylene (aq)	2 (AA) (1 82) 130 (MAC 182)		0.648		0.019	0.599	0.278	0.110	0.047	0.222				0.027				.003	0.089				0.004	0.005	
Acenaphthene (aq)			38.667		1.241	46.561	0.037	6.757	2.574	11.289				0.011				.005	0.018		0.022		0.015	0.008	
Fluorene (aq)	•		10.678		0.329	9.837	7.770	1.965	1.312	4.613				0.014				.014	0.006				0.019	0.010	
Phenanthrene (aq)	*		6.868		0.322	5.844	1.700	1.106	1.040	5.916				0.036				018	0.025				0.058	0.029	
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)		0.587		0.033	1.648	0.988	0.639	0.752	0.373				0.003		- 1		.003	0.017	0.014	0.007		0.007	0.003	
Fluoranthene (aq) Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)	_	1.101		0.030	2.776	1.240	0.077	0.602	0.686		+		0.031				007	0.005		0.018		0.018	0.008	
Pyrene (aq) Benzo(a)anthracene (aq)	<u> </u>	+	1.703		0.046	3.420 0.247	1.394 0.021	0.084	0.093	0.943		-		0.026	-			.005	0.003		0.013		0.016	0.005	
Chrysene (aq)	-	_	0.149		0.002	0.500	0.021	0.003	0.093	0.052		+		0.009				003	0.001		0.002		0.007	0.002	+
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)		0.070		0.001	0.250	0.054	0.005	0.040	0.073				0.020			0.099	.001	0.003	0.001	0.002		0.012	0.002	
Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2)		0.056		0.001	0.166	0.026	0.003	0.019	0.057				0.008				.001	0.002		0.001		0.007	0.002	
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))		0.093		0.003	0.489	0.110	0.008	0.091	0.135				0.007				.002	0.003	0.001	0.002		0.005	0.001	\perp
Indeno(1,2,3-cd)pyrene (aq)	-	+	0.108		0.004	0.407	0.252	0.015	0.077	0.209		1		0.010				.001	0.002		0.001		0.015	0.003	
Dibenzo(a,h)anthracene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	_	0.002		0.002	0.007	0.002	0.002	0.002	0.002 0.228		+		0.041 0.012				002 001	0.002		0.002		0.007	0.002 0.001	
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2) mg/l	_	0.100		0.004	U.430	0.244	0.009	0.060	0.228		1		0.012			U.VET	~~~	0.001	0.001	0.001		0.009	0.001	
Dissolved Organic Carbon			28		43.3	41.4	30.6		263	50	6.1			4.9		5.7		1.3	2.1	2.06	1.2		2.4	1.8	$\overline{}$
pH	6 - 9 (2&4)		7.3		7.5	7	6.9	7.1	6.9	6.8	7.4	1		7		6.7		6.9	6.8		7.2		7	6.9	_
Akalinity (Total)			1393		1338	1410	1209	1254	1060	1404	81	1		81		81		106		129	127		96	94	1 1
Chloride	250 (5)	4	84		79	79	57	59	41	53	21	1		22		16		33	47	33	32		30	28	
Ammoniacal Nitrogen		_	197.2		122.87	175.68	118.61	154.84	119.73	162.07	1.1			1.3		1.21		0.2	0.2	0.2	0.2		0.2	0.2	
Nitrite	FA (E)	4	0.01		0.01	0.01	0.01	0.01	0.01	0.01	0.01	1		0.01		0.01		0.01	0.01	0.01	0.01		0.01	0.01	
Nitrate	50 (5) 250 (5)	_	0.125	4 91	0.125	0.125 9.06	0.125 8.27	0.125 9.18	0.125 3.03	0.125 8.00	0.15	5.57	7.23	0.125	650	0.125		1.86 9.89 2	2.4	1.92 30.34	1.85 28.70	18.50	3.57	2	30.00
Sulphate Sulphide	250 (5)	+	+	4.91		9.06	8.27	9.18	3.03	8.00		5.57	1.25		6.50			7.07 Z	.41	3U.34	28.70	18.50	21.8	_	20.60
Calcium		_	+	175.00	-	162.00	177.00	176.00	165.00	178.00		16.30	17.50		18.20			6.54 4	.70	62.25	60.29	40.30	39.6	_	40.20
Potassium		1	1	93.60		108.32	77.40	81.42	75.46	91.93		5.57	5.64		8.76				96	2.17	2.24	4,48	4.1		4.33
Magnesium				39.30		50.62	33.90	39.63	34.01	41.20		3.65	3.59		4.17			5.13 5	24	6.42	6.23	8.81	8.4		8.73
Sodium	200(5)			116.00		104.58	68.60	78.66	62.07	91.01		10.70	11.60		8.76			8.08 3.	.45	19.49	17.41	13.80	14.2		14.40
Biochemical Oxygen Demand	-	1	6.5		5.9	5.4	7.1	4.1	9.9		1.5			3.7		3.7		2.5	2.5	2.5	5.1		1.5	1.5	
Chemical Oxygen Demand		4	158		123	47	98	56	51	129	67	1		107		32		10	25	10	10		10	10	
Conductivity		+	3010 0.15		2830 0.15	2980 0.15	2578 0.15	2597 0.15	2210 0.15	2940 0.15	242 0.15	1		255 0.15		239 0.15		407 1.86	443 2.4		433 1.85		358 3.57	341	
Total Oxidisable Nitrogen Total Phosphorus		+	0.15	+ +	0.15	0.15	0.15	0.15	0.15	0.15	0.15	1		0.15		1.11		125	0.125	0.125	0.125	-	0.125	0.125	+
Total Phosphoros			0.40		U.74	U.145	0.123	0.125	0.123	0.20	u.s			0.123		4.44		***	0.125	0.125	0.123		0.443	0.125	

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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS) where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of acute

Note:

Note: 1-disclosural sibilitarised six this Metall Biovariability Assessment Tool (M BAT) developed by WTDTAG. Look at receptor specific assessment using the M-BROSS and Color to derive a Title referred to a title WTCAGE southern the Section of Section Section (M BAT) developed by WTDTAG. Look at receptor specific assessment using the M-BROSS and Section (M BAT) developed by WTDTAG. Look at receptor specific assessment using the M-BROSS and Section (M BAT) developed by WTDTAG. Look at receptor specific assessment using the M-BROSS and Section (M BAT) developed by WTDTAG. Look at receptor specific assessment using the M-BROSS and Section (M BAT) developed by WTDTAG. Look at receptor specific assessment using the M-BROSS and Section (M BAT) developed by WTDTAG. Look at receptor specific assessment using the M-BROSS and Section (M BAT) developed by WTDTAG. Look at receptor specific assessment using the M-BROSS and Section (M BAT) developed by WTDTAG. Look at receptor specific assessment using the M-BROSS and Section (M BAT) developed by WTDTAG. Look at receptor specific assessment using the M-BROSS and Section (M BAT) developed by WTDTAG. Look at receptor specific assessment using the M-BROSS and Section (M BAT) developed by WTDTAG. Look at receptor specific assessment using the M-BROSS and Section (M BAT) developed by WTDTAG. Look at receptor specific assessment using the M-BROSS and Section (M BAT) developed by WTDTAG. Look at receptor specific assessment using the M-BROSS and Section (M BAT) developed by WTDTAG. Look at receptor specific assessment using the M-BROSS and Section (M BAT) developed by WTDTAG. Look at receptor specific assessment using the M-BROSS and Section (M BAT) developed by WTDTAG. Look at receptor specific assessment using the M-BROSS and Section (M BAT) and Section (M BAT) and Section (M BAT) and Section (M BAT) and Section (M BAT) and Section (M BAT) and Section (M BAT) and Section (M BAT) and Section (M BAT) and Section (M BAT) and Section (M BAT) and Section (M BAT) and Section (M

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)		BH101																		
HEAVY METALS	μg/l	28/10/2019	19/02/2020 27/02/2020	11/07/2020 27/07/2020 28/07/2020	30/07/2020	24/08/2020	07/10/2020	24/11/2020	26/11/2020	16/02/2021	12/04/2021	26/07/2021	04/11/2021	01/02/2022	20/07/2016	27/09/2016	09/01/2017 11/01/2	117 06/03/2017	18/07/2017	20/07/2017	15/08/2017	31/08/2017
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		10.00		10.00	0.22	10.00	0.59	,,	0.45	0.57	0.63	0.73	0.88			12.50		0.27			
Cadmium (diss.filt) Chromium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		1.000 0.025		1.000 2.500	0.222 0.125	1.000 0.125	0.185 0.125		0.145	0.191	0.213 0.125	0.193	0.195			5.000 12.500		0.344 0.125		0.125	0.125
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94	2.500		2.500	0.717	2.500	0.739		0.548	0.616	0.716	1.442	0.612			10.000		1.270		0.113	0.113
Iron (diss.) Mercury (diss.filt)			4050		518	495	399	1083		1640	1648	1312	1771	1724			50		50			
	0.07 MAC (182) 123 (AA) (*********************************	276.92	0.0025		0.0025	0.0025 2845,390126	0.0025	0.0025 2575.405611		0.0025 2618 533295	0.0025 2794,611872	0.0025	0.0025	0.0025 2813.611571			0.0025 16200		0.0025			
Manganese (diss.filt) Molybdenum (diss.filt)	70 (8) 2		2670		2860		2570			2618.533295	2/94.611872	2705.297598	2834.032439						18900			
Nickel (diss.filt)	4 (MAC) (182)	14.98	2.50		2.50	3.39	2.50	3.06		3.26	3.14	3.37	3.20	3.09			12.50		9.53			
Lead (diss.filt) Antimony (diss.filt)	1.2(884 TOBS 3) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64	10		10	0.125	10	0.125		0.125	0.125	0.025	0.125	0.125			12.5		0.125			
Selenium (diss.fit)	10(5)	10	0.50		0.54	0.10	0.10	0.10		0.10	0.10	0.10	0.10	0.10					0.45		0.10	0.10
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (ME HOUSE)	37.15	5.55		6.73	4.45	9.85	3.96		4.72	4.92	4.69	4.27	4.51			10.00		1.61			
Iron (Total) Manganese (Total)					-			2035.900472			2307.847253 2860.34098	1863.537337 2717 194195			-		2560 1620		190 19100			
Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)		0.25		0.13	0.13	0.13	0.13		0.13	0.13	0.13	0.13	0.13								
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.025		0.025	0.025	0.025	0.025		0.025	0.025	0.025	0.025	0.025							0.025	0.025
Aluminium (diss.filt) Vanadium (diss.filt)			20		20	20 0.125	20 0.125	20 0.125		20 0.125	20 0.125	20 0.025	20 0.125	20 0.125	+	-	50	_	0.125	 	-+	
Phenols	ug/l																					
Phenois, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2)	22.50	22.50		1		22.50				22.50	22.50	22.50	22.50	1			_	1	1.25		
Aliphatics	-																					
EC CS-C6 EC>C6-C8	15000 (7)	10	10	10		10	10				10	10	10	10			25	25			10	10
EC>C6-C8	15000 (7) 300 (7)	12.5	12.5 7.5	12.5 7.5	-	12.5 7.5	12.5 7.5				12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	-		30 0.05	0.05	+		12.5 7.5	12.5 7.5
EC>C10-C12	300 (7)	5	5			- 1.0								- 1-0			3.5					
EC>C12-C16 FC>C16-C21	300 (7)	5	5 5														5 2.5	5 2.5				
FCxC21-C35		5	5		-						-				-		10	10	+			$\overline{}$
EC>C35-C44		5	5														2.5	2.5				
Aromatics FC CS-C7	10 (7)		1			1	1				- 1	-	- 1	- 1			0.025	0.025	-			1
EC>C7-C8	700 (7)	2.5	2.5	2.5		2.5	2.5				2.5	2.5	2.5	2.5			0.025	0.025			2.5	2.5
EC>C8-C10 EC>C10-C12	300 (7)																0.025				25	25
EC>C10-C12 EC>C12-C16	90 (7) 90 (7)	5 5	5 5														3.5	- 1	-			
EC>C16-C21	90 (7)	5	5														15	15				
EC>C21-C35	90 (7) 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)	5	5	0.50		0.50	0.50				0.50	0.50	0.50	0.50			15	15		0.50	0.50	
Benzene Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)	0.50 0.50	0.50 0.50	0.50	-	0.50	0.50				0.50	0.50	0.50	0.50	-			-	+	0.50	0.50	0.50
Ethylbenzene	300 (8)	0.50	0.50	0.50		0.50	0.50				0.50	0.50	0.50	0.50						0.50	0.50	0.50
p/m-Xylene o-Xylene		1.00	1.00	1.00 0.50		1.00 0.50	0.50				1.00	1.00 0.50	1.00 0.50	1.00					-	0.50 0.50	0.50	1.00 0.50
Sum of detected Xvienes	500 (8)	1.50	1.50	1.50		1.50	1.50				1.50	1.50	1.50									
Polyaromatic Hydrocabons	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)	0.076	0.499				0.063					0.004								0.500	0.004	0.004
Naphthalene (aq) Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)	0.002	0.499		-		0.008				0.006	0.004	0.832	0.137	-			-	+	0.500	0.004	0.004
Acenaphthene (aq)		0.036	0.045				0.006				0.022	0.001	0.133	0.021							0.001	0.001
Fluorene (aq) Phenanthrene (aq)		0.016 0.040	0.017				0.006				0.012	0.002	0.027	0.007					-		0.002	0.002
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)	0.003	0.003				0.003				0.003	0.003	0.025	0.003	1				1		0.003	0.003
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)	0.014	0.001				0.017				0.001	0.001	0.027	0.004							0.001	0.001
Pyrene (aq) Benzo(a)anthracene (aq)		0.012 0.002	0.016		-	l	0.011				0.001	0.001 0.001	0.019	0.004	ł				+	-	0.001	0.001
Chrysene (aq)	-	0.003	0.001				0.003				0.001	0.001	0.010	0.001							0.001	0.001
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2)	0.002	0.002		1		0.002				0.001	0.001	0.001	0.001	-			_	+		0.001	0.001
Benzo(a)pyrene (aq)	0.0017 (MAC) (1&2) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	0.002	0.001				0.004				0.001	0.001	0.001	0.001	1			_	+		0.001	0.001
Indeno(1,2,3-cd)pyrene (aq)		0.007	0.002				0.003				0.001	0.001	0.001	0.001							0.001	0.001
Dibenzo(a,h)anthracene (aq) Benzo(g,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	0.002	0.002		-	l	0.002				0.002			0.002	ł				+		0.002	0.002
INORGANICS	mg/l																					
Dissolved Organic Carbon pH	6 - 9 (2&4)	1.8	2.6 7.2	3.5 6.2		4.2 6.4	3.9 6.8	2.5 6.4		1.6 6.5	1.6 6.7	6.7	2.4 6.6	2.7 6.6	26 7.6	11 7.2	3.5	3.7 6.8	4.1 7.9	I - I	-	
pH Alkalinity (Total)		6.8 99	112	105	†	107	110	115		108	109	112	5.b 122	119	180	110	190	204	218	 	-+	
Chloride	250 (5)	28	27	23		24	22	23		22	21	20	19	20	67	21	37	42	44			
Ammoniacal Nitrogen Nitrite	<u> </u>	0.2 0.01	0.49	0.2 0.01	 	0.2	0.2	0.2		0.18	0.2	0.71	0.2	0.2	0.021	0.014	0.92 0.0025	0.95 0.0025	0.83	-		
Nitrate	50 (5) 250 (5)	2.16	1.55	0.01		1	0.59	1.25		1.61	1.44	0.86	0.125	0.97	11	0.01	0.0025	0.0025	0.03			
Sulphate	250 (5)		15.90		21.80	21.12	19.78	18.42		19.43	18.31	19.19	15.78	15.12					16.70			
Sulphide Calgium			42.20		41.30	41.50	39.56	41.80		39.73	40.98	40.18	42.46	41.06	 	l	52.10	- 	66.60	-		
Potassium			4.58		4.26	4.27	4.69	4.50		4.27	4.44	4.38	4.80	4.77					3.74			
Magnesium	200(5)		8.68 12.80		8.69 14.60	8.89 14.14	8.47 13.08	8.77 12.54		8.18 12.82	8.21 12.50	8.32 13.15	8.60 13.87	8.31 12.48			10.70 22.80		13.40 31.10			
Sodium Biochemical Oxygen Demand	200(5)	1.5	12.80	1.0	14.60	14.14	13.08	12.54		12.82	12.50	13.15 2.5	13.87	12.48			22.80	-1	31.10	 		+
Chemical Oxygen Demand		10	96	10		10	10	10		10	10	10	10	10								
Conductivity		353 2.16	359 1.55	927 0.99	1	343	341 0.59	362		343 1.61	335 1.44	330	338	334 0.97	1		0.03	0.03	601 0.03			
Total Oxidisable Nitrogen Total Phosphorus		0.125	0.125	0.125		0.125	0.125	1.25 0.125		0.125	0.125	0.86 0.125	0.15 0.125	0.125			0.05	0.03	0.03			

The Water Famework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Famework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Famework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Transitional waters.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EQS). Where the MAC EQS are marked as "not applicable", the AA-EQS values are considered protective against short eem pollution peak is nontimuour discharges since they are significantly lower than the values defined not the basis of auctrectory.

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Note: 120Doorvaliable derived via the Metal Bicavaliability Assessment Tool (M.B.IT) developed by WTDTAL Look at receptor specific assessment using the M. South Carlo derive a EQS referred to as the PRECEDIANNE Intelly/wave which an epitroconce(fiver to lates retails bloavailability assessment tool on the Control of the C

Sample Point /		MBAT PNEC																					
Determinands	TSV	(ug/l)										BH102											
HEAVY METALS	μg/l	19	/10/2017 :	12/01/2018	20/02/2018	12/04/2018	17/04/2018	27/06/2018	28/06/2018	03/10/2018 16/10/2018 17/1	/2018 09/01/201	22/01/2019	11/04/2019	25/04/2019 05/07/2019	09/07/2019 1	5/10/2019 22/1	0/2019 1	19/02/2020	26/02/2020	01/07/2020	27/07/2020	28/07/2020 30/07/20	20 24/08/2020
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		0.28	10.00			10.00	10.00		10.00	10.00		10.00	10.00		10.00		10.00				10.00	0.23
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		0.549	1.000			1.000	1.000		1.000	1.000		1.000	1.000		1.000		1.000				1.000	0.424
Chromium (diss.filt)	50 (5)		0.125	2.500			5.720	2.500		2.500	2.500		0.677	0.250		0.250		0.025				2.500	0.125
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (ΔΔ) (1&2)		1.470	2.500			6.580	2.500		2.500	2.500		2.500	2.500		2.500		2.500				2.500	
Iron (diss.) Mercury (diss.fit)	1000 (AA) (1&2)		50	20			20	20		20	20		20	20		20		20				20	20
	0.07 MAC (1&2)		0.0025	0.0025			0.0025	0.0025		0.0025	0.0025		0.0025	0.0025		0.0025		0.0025				0.0025	
Manganese (diss.filt)	123 (AA) (MATORIT)	276.92	18600	14000			15500	21600		15500	13100		13100	15300		11300		9320				10700	9018
Molybdenum (diss.filt) Nickel (diss.filt)	70 (8) ?	14.98	9 30				10.70			9.32			8.04	10.50		8.51		7.32					7.54
Nickel (diss.filt) Lead (diss.filt)	4 (AA) (1), 8.6 (AA) (2), 34 (MAC) (182) 1.2 (888 7008 3) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)			5.00			10.70	12.90		9.32	7.14											8.04	
	1.2*******(AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64	0.125	10			10	10		10	10		10	10		10		10				10	0.125
Antimony (diss.filt) Selenium (diss.filt)	10(5)	10	0.73								_	_	0.50	0.50		0.50		0.50				1.01	0.10
Zinc (diss.fit)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (see Hour 2)		1.42	4.00			3.90	240		2.57	3.00	_	3.29	3.30		2.13		2.22				2.77	
Iron (Total)	10.5 (AA) (1) TABO BIODENINDIO CO (AA) (2) TABO		932	2.00	154 3479946	2760	3.90	2.10	1060	2.37	3.00		3.29	3.30		2.13		2.22				211	151
			19100		14100				21100														
Chromium III (diss.fit)	4.7 (AA) (1) 95th%ile (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)												0.34	0.25		0.25		0.25				0.13	0.13
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)												0.025	0.025		0.025		0.025				0.025	
Aluminium (diss.filt)			50	20			20	20		20	20		20	20		20		20				20	20
Vanadium (diss.filt)			0.125																				20 0.125
Phenois	ug/l																						
Phenois, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2)		_		22.50	22.50			22.50	2	50	22.50		22.50	80.00	2	2.50		22.50				
Speciated TPH	ug/I																						
Aliphatics EC CS-C6	16000 (7)	-																					
EC CS-C6	15000 (7) 15000 (7)				10	10		-	10		0	10		10	10				10		10		10 12.5
EC>C6-C8 FC>C8-C10	15000 (7) 200 (7)	+	_		12.5	12.5			12.5		.5	12.5	_	12.5	12.5		-+		12.5				
EC>C8-C10 FC>C10-C12	300 (7)	+	_		7.5	7.5			7.5		5	7.5	_	7.5	7.5		-		7.5		7.5		7.5
BC>C12-C16	300 (7)				5	5		-	5			5	_	5	20		5		5		-		
FC>C16-C21	300 (1)	+			5	5			5			5		5	5		5		5				
FC>C1-C15		+			5	5			5			5		10	5		5		5				
EC>C35-C44					,	5			5			5		5	5		5		5				
Aromatics EC CS-C7	10 (7)				1	1			1			1		1	1				1		1		1
EC>C7-C8	700 (7)				2.5	2.5			2.5		5	2.5		2.5	2.5				2.5		2.5		2.5
EC>C8-C10	300 (7)				25	25			25		5	25		25									
EC>C10-C12	90 (7)				5	5			5			5		5	20		5		5				
EC>C12-C16	90 (7)				5	5			5		0	5		20	50		5		5				
EC>C16-C21	90 (7)				5	5			5		0	5		20	50		5		5				
EC>C21-C35	90 (7)				5	5			5		0	5		5	5		5		5				
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)				0.50	0.50			0.50		50	0.50		0.50	0.50				0.50		0.50		0.50
I oluene Ethylbenzene	74 (AA) 95th/file (380) (1), 74 (AA) 95th/file (370) (2)				0.50	0.50			0.50 0.50		50	0.50 0.50		0.50	0.50				0.50		0.50		0.50 0.50
p/m-Xvlene	300 (6)	+			1.00	1.00			1.00		90	1.00	_	1.00	1.00				1.00		1.00		1.00
o-Xylene		+			0.50	0.50			0.50		50	0.50		0.50	0.50				0.50		0.50		0.50
Sum of detected Xvienes	500 (8)	+			0.30	0.30			0.30		~	0.30		0.30	1.50				1.50		1.50		1.50
Polyaromatic Hydrocabons																							
Naphthalene (aq)	µg/l 2 (AA) (1 &2) 130 (MAC 1&2)				0.004	0.025			0.004	0	04	0.004		0.004	0.004				0.020				
Acenaphthylene (aq)																	.046						
Acenaphthene (aq)					0.002	0.005			0.002	0	02	0.002		0.005	0.004		046		0.005				
	•				0.002	0.005			0.025	0	02 01	0.001		0.005 0.003	0.002 0.001	0	005 091		0.005				
Fluorene (aq)	-				0.002 0.001 0.002	0.005 0.015 0.020			0.025	0 0	02 01 05	0.001		0.005 0.003 0.002	0.002 0.001 0.002	0	005 091 008		0.005 0.002				
Fluorene (aq) Phenanthrene (aq)	-				0.002 0.001 0.002 0.003	0.005 0.015 0.020 0.003			0.025 0.032 0.003	0 0	02 01 05 03	0.001 0.002 0.003		0.005 0.003 0.002 0.003	0.002 0.001 0.002 0.003	0 0	005 091 008 023		0.005 0.002 0.003				
Fluorene (aq) Phenanthrene (aq) Anthracene (aq)	0.1 (AA & MAC) (1 & 2)				0.002 0.001 0.002 0.003 0.003	0.005 0.015 0.020 0.003 0.003			0.025 0.032 0.003 0.003	0 0	02 01 05 03 02	0.001 0.002 0.003 0.003		0.005 0.003 0.002 0.003 0.003	0.002 0.001 0.002 0.003 0.003	0 0	005 091 008 023 003		0.005 0.002 0.003 0.003				
Fluorene (aq) Phenanthrene (aq) Anthracene (aq) Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)				0.002 0.001 0.002 0.003 0.003	0.005 0.015 0.020 0.003 0.003			0.025 0.032 0.003 0.003 0.003	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02 01 05 03 02 03	0.001 0.002 0.003 0.003 0.004		0.005 0.003 0.002 0.003 0.003 0.003	0.002 0.001 0.002 0.003 0.003 0.001	000000000000000000000000000000000000000	005 091 008 023 003 016		0.005 0.002 0.003 0.003 0.003				
Fluorene (aq) Phenanthrene (aq) Anthracene (aq) Fluoranthene (aq) Pyrene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)				0.002 0.001 0.002 0.003 0.003 0.001	0.005 0.015 0.020 0.003 0.003 0.001			0.025 0.032 0.003 0.003 0.003 0.003	0 0 0 0 0	02 01 05 03 02 03 01	0.001 0.002 0.003 0.003 0.004 0.008		0.005 0.003 0.002 0.003 0.003 0.003 0.003	0.002 0.001 0.002 0.003 0.003 0.001 0.003	000000000000000000000000000000000000000	005 091 008 023 003 016 024		0.005 0.002 0.003 0.003 0.003 0.006				
Fluorene (aq) Phenanthrene (aq) Anthracene (aq) Fluoranthene (aq) Pyrene (aq) Benzo(a)anthracene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)				0.002 0.001 0.002 0.003 0.003 0.001 0.001	0.005 0.015 0.020 0.003 0.003 0.001 0.001			0.025 0.032 0.003 0.003 0.003 0.003 0.003	0 0 0 0 0 0 0 0	02 01 05 03 02 02 03 01	0.001 0.002 0.003 0.003 0.004 0.008 0.001		0.005 0.003 0.002 0.003 0.003 0.003 0.003 0.003	0.002 0.001 0.002 0.003 0.003 0.001 0.003 0.001	000000000000000000000000000000000000000	005 091 008 023 003 016 024		0.005 0.002 0.003 0.003 0.003 0.006 0.001				
Fluorene (aq) Phenanthrene (aq) Anthracene (aq) Fluoranthene (aq) Fluoranthene (aq) Pyrene (aq) Benzo(a)anthracene (aq) Chrysene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)				0.002 0.001 0.002 0.003 0.003 0.001 0.001 0.001	0.005 0.015 0.020 0.003 0.003 0.001 0.001 0.001			0.025 0.032 0.003 0.003 0.003 0.003 0.001	0 0 0 0 0 0 0 0	02 01 05 03 02 03 01 01 01	0.001 0.002 0.003 0.003 0.004 0.008		0.005 0.003 0.002 0.002 0.003 0.003 0.003 0.003 0.001	0.002 0.001 0.002 0.003 0.003 0.001 0.003 0.001	000000000000000000000000000000000000000	005 091 008 023 003 016 024 001		0.005 0.002 0.003 0.003 0.003 0.006 0.001				
Fluorene (aq) Phenanthrene (aq) Anthracene (aq) Fluoranthene (aq) Pyrene (aq) Benzo(a)anthracene (aq) Ctrysene (aq) Benzo(b)fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)				0.002 0.001 0.002 0.003 0.003 0.001 0.001	0.005 0.015 0.020 0.003 0.003 0.001 0.001 0.001			0.025 0.032 0.003 0.003 0.003 0.003 0.003	0 0 0 0 0 0 0 0	02 01 05 03 02 03 03 01 01 01	0.001 0.002 0.003 0.003 0.004 0.008 0.001		0.005 0.003 0.002 0.003 0.003 0.003 0.003 0.003	0.002 0.001 0.002 0.003 0.003 0.001 0.003 0.001	000000000000000000000000000000000000000	005 091 008 023 003 016 024		0.005 0.002 0.003 0.003 0.003 0.006 0.001				
Fluorene (sq) Phenanthrene (sq) Anthracene (sq) Fluoranthene (sq) Fluoranthene (sq) Pyrene (sq) Benzo(a)anthracene (sq) Crysene (sq) Benzo(b)fluoranthene (sq) Benzo(b)fluoranthene (sq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)				0.002 0.001 0.002 0.003 0.003 0.001 0.001 0.001 0.001	0.005 0.015 0.020 0.003 0.003 0.001 0.001 0.001 0.001			0.025 0.032 0.003 0.003 0.003 0.003 0.001 0.001 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02 01 05 03 02 03 03 01 01 01	0.001 0.002 0.003 0.003 0.004 0.008 0.001		0.005 0.003 0.003 0.002 0.003 0.003 0.003 0.003 0.003 0.001 0.001	0.002 0.001 0.002 0.003 0.003 0.003 0.001 0.001 0.001	0 0 0 0 0 0 0 0 0 0	005 091 008 023 003 016 024 001 001		0.005 0.002 0.003 0.003 0.003 0.006 0.001 0.001				
Fluorene (aq) Phenanthrene (aq) Anthracene (aq) Fluoranthene (aq) Fluoranthene (aq) Pyrene (aq) Benzo(a)anthracene (aq) Craysene (aq) Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq) Benzo(a)pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)				0.002 0.001 0.002 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001	0.005 0.015 0.020 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001			0.025 0.032 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02 01 01 05 05 06 07 07 07 07 07 07 07 07 07 07 07 07 07	0.001 0.002 0.003 0.003 0.004 0.004 0.001 0.001		0.005 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.001 0.001 0.001	0.002 0.001 0.002 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	005 091 008 003 003 003 0016 0024 001 001 001 001		0.005 0.002 0.003 0.003 0.003 0.006 0.001 0.001 0.001 0.001 0.001				
Fluorene (sq) Phenanthrene (sq) Anthracene (sq) Fluoranthene (sq) Fluoranthene (sq) Pyrene (sq) Benzo(a)anthracene (sq) Crysene (sq) Benzo(b)fluoranthene (sq) Benzo(b)fluoranthene (sq)	0.0063 (AA) (1.8.2) 0.12 (MAC.1) 8.837 (MC) (182) 8.837 (MC) (182) 0.00617 (AA) (1.8.2) (MC) (1.9.2) 0.00617 (AA) (1.8.2) (MC) (1.9.2) (1.9.837 (2))				0.002 0.001 0.002 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0.005 0.015 0.020 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001			0.025 0.032 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02	0.001 0.002 0.003 0.003 0.004 0.008 0.001 0.001		0.005 0.005 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.001 0.001 0.001	0.002 0.001 0.002 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	000000000000000000000000000000000000000	005 091 008 0023 003 0016 0024 001 001 001 001		0.005 0.002 0.003 0.003 0.003 0.005 0.001 0.001 0.001 0.001 0.001 0.001				
Fluorene (as) Phenanthrene (as) Anthracere (as) Anthracere (as) Phyrene (as) Pyrene (as) Pyrene (as) Benacol (anthracere (as) Benacol (anthracere (as) Benacol (bluoranthrene (as) Benacol (bluoranthrene (as) Benacol (bluoranthrene (as) Benacol (bluoranthrene (as) Benacol (bluoranthrene (as) Benacol (bluoranthrene (as) Benacol (bluoranthrene (as) Benacol (bluoranthrene (as) Benacol (bluoranthrene (as)	0.0063 (AA) (1 8.2) 0.12 (MAC 1) 0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.0017 (AA) (1.3.2) (MAC) (2.2) 0.00017 (AA) (1.3.2) (MAC) (2.2) 0.00017 (AA) (1.3.2) (MAC) (2.2)				0.002 0.001 0.002 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0.005 0.015 0.020 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001			0.025 0.032 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02 02 01 01 01 01 01 01 01 01 01 01 01 01 01	0.001 0.002 0.003 0.003 0.004 0.004 0.001 0.001		0.005 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.001 0.001 0.001	0.002 0.001 0.002 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001	000000000000000000000000000000000000000	005 091 008 003 003 003 0016 0024 001 001 001 001		0.005 0.002 0.003 0.003 0.003 0.006 0.001 0.001 0.001 0.001 0.001				
Fluorenc (as) Phenarithrenc (as) Antivacenc (as) Antivacenc (as) Antivacenc (as) Antivacenc (as) Benuco(a)suthuscenc (as) Benuco(a)suthuscenc (as) Benuco(b)fluorantibrenc (as) Benuco(b)fluorantibrenc (as) Benuco(b)fluorantibrenc (as) Benuco(a)syrenc (as) Infendu (2,2-40)prenc (as) Benuco (a)syrenc (as) Benuco (a)syrenc (as) Benuco (a)syrenc (as)	0.0063 (AA) (1.8.2) 0.12 (MAC.1) 8.837 (MC) (182) 8.837 (MC) (182) 0.00617 (AA) (1.8.2) (MC) (1.9.2) 0.00617 (AA) (1.8.2) (MC) (1.9.2) (1.9.837 (2))				0.002 0.001 0.002 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0.005 0.015 0.020 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001			0.025 0.032 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02	0.001 0.002 0.003 0.003 0.004 0.001 0.001 0.001 0.001		0.005 0.003 0.002 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0.002 0.001 0.002 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	000000000000000000000000000000000000000	005 091 008 0023 003 0016 0024 001 001 001 001		0.005 0.002 0.003 0.003 0.003 0.006 0.001 0.001 0.001 0.001 0.001 0.001 0.001				
Fluorene (as) Phenanthrene (as) Anthracere (as) Anthracere (as) Phyrene (as) Pyrene (as) Pyrene (as) Benacol (anthracere (as) Benacol (anthracere (as) Benacol (bluoranthrene (as) Benacol (bluoranthrene (as) Benacol (bluoranthrene (as) Benacol (bluoranthrene (as) Benacol (bluoranthrene (as) Benacol (bluoranthrene (as) Benacol (bluoranthrene (as) Benacol (bluoranthrene (as) Benacol (bluoranthrene (as)	0.0062 (AAC)(1 8.0) 0.12 (AAC)(1) 0.0017 (AAC)(1 8.0) 0.12 (AAC)(1) 0.0017 (AAC)(1 8.0) (AAC)(1 8.0) 0.00017 (AAC)(1 8.0) 0.00017 (AAC)(2) 0.00017 (AAC)(1 8.0) 0.00017 (AAC)(2)		4.5		0.002 0.001 0.002 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0.005 0.015 0.020 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001			0.025 0.032 0.003 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02	0.001 0.002 0.003 0.003 0.004 0.001 0.001 0.001 0.001		0.005 0.003 0.002 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0.002 0.001 0.002 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	005 091 008 008 003 003 006 0024 001 001 001 001 001 001 001 001 001 00		0.005 0.002 0.003 0.003 0.003 0.006 0.001 0.001 0.001 0.001 0.001 0.001 0.001			51	47
Plazeres (as) Plensartheres (as) Anthracere (as) Anthracere (as) Plensartheres (as) Plensartheres (as) Plensartheres (as) Encycles (as) Benut (plazer (as) Benut (plazer (as) Benut (plazer there (a	0.0063 (AA) (1 8.2) 0.12 (MAC 1) 0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.0017 (AA) (1.3.2) (MAC) (2.2) 0.00017 (AA) (1.3.2) (MAC) (2.2) 0.00017 (AA) (1.3.2) (MAC) (2.2)		7		0.002 0.001 0.002 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0.005 0.015 0.020 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001			0.025 0.032 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02	0.001 0.002 0.003 0.003 0.004 0.004 0.001 0.001 0.001 0.003 0.003 0.003 0.004 0.003		0.005 0.003 0.002 0.002 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0.002 0.001 0.002 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	005 091 008 008 003 003 003 001 001 001 001 001		0.005 0.002 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001			6.7	7
Placetee (as) Phenathrene (ac) Reditacetee (as) Reditacetee (as) Pernathrene (ac) Prene (ac) Perne	0.0062 (MA)(1 8.2) 0.12 (MAC 1)		7 226		0.002 0.001 0.002 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0.005 0.015 0.020 0.003 0.003 0.001			0.025 0.032 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02	0.001 0.002 0.003 0.003 0.004 0.006 0.001 0.001 0.001 0.002 0.003 0.003		0.005 0.003 0.002 0.002 0.003 0.003 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0.002 0.001 0.003 0.003 0.003 0.003 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	005 091 008 008 0023 003 003 0016 0024 001 001 001 001 001 001 002 001 002 001 002 001 007 007 007 007 007 007 007 007 007		0.005 0.002 0.003 0.003 0.003 0.001 0.			6.7 249	7 231
Flacence (ss) Phenastrience (sci) Anditacente (sci) Anditacente (sci) Anditacente (sci) Present (sci) Present (sci) Present (sci) Present (sci) Chrysten (sci) Chrysten (sci) Chrysten (sci) Present (0.0062 (AAC)(1 8.0) 0.12 (AAC)(1) 0.0017 (AAC)(1 8.0) 0.12 (AAC)(1) 0.0017 (AAC)(1 8.0) (AAC)(1 8.0) 0.00017 (AAC)(1 8.0) 0.00017 (AAC)(2) 0.00017 (AAC)(1 8.0) 0.00017 (AAC)(2)		7 226 52		0.002 0.001 0.002 0.003 0.003 0.001 0.	0.005 0.015 0.020 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.003			0.025 0.032 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02	0.001 0.002 0.003 0.003 0.004 0.004 0.001 0.001 0.001 0.003 0.003 0.004 0.003 0.004 0.003 0.003 0.004		0.005 0.003	0.002 0.001 0.003 0.003 0.003 0.003 0.001 0.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	005 001 001 002 003 003 003 003 003 001 001 0001 0		0.005 0.002 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001			6.7 249 46	7 231 43
Placetee (ss) Phenostrere (sc) Phenostrere (sc) Placeterre (sc) Placeterre (sc) Pyrene (sc) Perre (sc) Perre (sc) Perre (sc) Perre (sc) Perre (sc) Perro (0.0062 (MA)(1 8.2) 0.12 (MAC 1)		7 226 52 1.25		0.002 0.001 0.002 0.003 0.003 0.001 0.005 0.001 0.005 0.001 0.005 0.001 0.005 0.	0.005 0.015 0.020 0.003 0.003 0.001			0.025 0.032 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02	0.001 0.002 0.003 0.003 0.004 0.006 0.001 0.001 0.001 0.002 0.003 0.003 0.003 0.003		0.005 0.003	0.002 0.001 0.003 0.003 0.003 0.001 0.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	005 005 006 008 008 008 008 008 008 008 008 008		0.005 0.002 0.003 0.003 0.003 0.005 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.003			6.7 249 46 0.2	7 231 43
Flacence (as) Plensariteres (co) Plensariteres (co) Plensariteres (co) Proces	0.0062 (AA) (1 8.7) 0.12 (MAC 1)		7 226 52 1.25 0.0025		0.002 0.001 0.002 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.003	0.005 0.015 0.020 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.001 0.002 0.001			0.025 0.032 0.003 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02	0.001 0.002 0.003 0.003 0.004 0.001 0.001 0.001 0.001 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003		0.005 0.005 0.005 0.005 0.002 0.002 0.002 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.001 0.001 0.002 0.001	0.002 0.001 0.003 0.003 0.003 0.003 0.001 0.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0005 0010 0010 0010 0010 0010 0010 0010		0.005 0.002 0.003 0.003 0.003 0.003 0.001			6.7 249 46 0.2 0.01	7 231 43 0.2 0.01
Flacence (as) Phenostrience (act) Phenostrience (act) Phenostrience (act) Phenos (a	0.0062 (AA) (1 8.7) 0.12 (MAC 1)		7 226 52 1.25 0.0025 0.03		0.002 0.001 0.002 0.003 0.003 0.001 0.005 0.001 0.005 0.001 0.005 0.001 0.005 0.	0.005 0.015 0.020 0.003 0.003 0.001	33.05	33.6	0.025 0.032 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02 02 01 01 01 01 01 01 01 01 01 01 01 01 01	0.001 0.002 0.003 0.003 0.004 0.006 0.001 0.001 0.001 0.002 0.003 0.003 0.003 0.003		0.005 0.003	0.002 0.001 0.003 0.003 0.003 0.001 0.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	005 005 006 008 008 008 008 008 008 008 008 008	W.F.A.	0.005 0.002 0.003 0.003 0.003 0.005 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.003			6.7 249 46 0.2 0.01 0.15	7 231 43 0.2 0.01 0.89
Placeme (es) Phenotrieres (ed) Phenotrieres (ed) Phenotrieres (ed) Proceeding (ed) Proceeding (ed) Proceeding (ed) Proceeding (ed) Person	0.0062 (MA)(1 8.2) 0.12 (MAC 1)		7 226 52 1.25 0.0025	16:10	0.002 0.001 0.002 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.003	0.005 0.015 0.020 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.001 0.002 0.001	22.50	22.40	0.025 0.032 0.003 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02	0.001 0.002 0.003 0.003 0.004 0.001 0.001 0.001 0.001 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003	25.30	0.005 0.005 0.005 0.005 0.002 0.002 0.002 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.001 0.001 0.002 0.001	0.002 0.001 0.003 0.003 0.003 0.003 0.001 0.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0005 0010 0010 0010 0010 0010 0010 0010	25.50	0.005 0.002 0.003 0.003 0.003 0.003 0.001			6.7 249 46 0.2 0.01	7 231 43 0.2 0.01 0.89
Placeme (es) Pleasanteres (co) Pleasanteres (co) Pleasanteres (co) Pleasanteres (co) Properties (co) Properties (co) Properties (co) Properties (co) Properties (co) Perties (0.0062 (AA) (1 8.7) 0.12 (MAC 1)		7 226 52 1.25 0.0025 0.03 17.30		0.002 0.001 0.002 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.003	0.005 0.015 0.020 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.001 0.002 0.001			0.025 0.032 0.003 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02 02 01 01 01 01 01 01 01 01 01 01 01 01 01	0.001 0.002 0.003 0.003 0.004 0.001 0.001 0.001 0.001 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003		0.005 0.005 0.005 0.005 0.000	0.002 0.001 0.003 0.003 0.003 0.003 0.003 0.001 0.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0055 0091 0091 0091 0093 0033 016 003 016 001 001 001 001 001 001 001 001 001		0.005 0.002 0.003 0.003 0.003 0.003 0.001			6.7 249 46 0.2 0.01 0.15 22.40	7 231 43 02 0.01 0.89 22.03
Flacence (etc.) Phenometrees (col.) Phenometrees (col.) Flacenthere (col.) Flacenthere (col.) Flacenthere (col.) Chrystee (col.) Chrystee (col.) Chrystee (col.) Bestee (c	0.0062 (AA) (1 8.7) 0.12 (MAC 1)	-	7 226 52 1.25 0.0025 0.03	41.10	0.002 0.001 0.002 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.003	0.005 0.015 0.020 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.001 0.002 0.001	22.80 75.00 75.00	22.40 25.40 25.40 25.40 25.40	0.025 0.032 0.003 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02 02 01 01 01 01 01 01 01 01 01 01 01 01 01	0.001 0.002 0.003 0.003 0.004 0.001 0.001 0.001 0.001 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003	67.70	0.005 0.005 0.005 0.005 0.000	0.002 0.001 0.002 0.003 0.003 0.003 0.001 0.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0005 0001 00	68.70	0.005 0.002 0.003 0.003 0.003 0.003 0.001			6.7 249 46 0.2 0.01 0.15	7 231 43 0.2 0.01 0.89 22.03
Flacence (as) Pleasarthree (ac) Pleasarthree (ac) Pleasarthree (ac) Proceed (ac) Pr	0.0062 (AA) (1 8.7) 0.12 (MAC 1)		7 226 52 1.25 0.0025 0.03 17.30		0.002 0.001 0.002 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.003	0.005 0.015 0.020 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.001 0.002 0.001	75.00	95.70	0.025 0.032 0.003 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02 02 01 01 01 01 01 01 01 01 01 01 01 01 01	0.001 0.002 0.003 0.003 0.004 0.001 0.001 0.001 0.001 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003		0.005 0.005 0.005 0.005 0.000	0.002 0.001 0.003 0.003 0.003 0.003 0.003 0.003 0.001 0.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0055 0091 0008 0091 0008 0091 0008 0003 0003 016 0004 0001 000		0.005 0.002 0.003 0.003 0.003 0.003 0.001			6.7 249 46 0.2 0.01 0.15 22.40	7 231 43 0.2 0.01 0.89 22.03 72.89 3.38 17.15
Flacence (as) Plensariteres (col.) Plensariteres (col.) Flacentieres (col.) Flacentieres (col.) Propose (col.)	0.0063 (AA) (1 8.7) 0.12 (A6C 1)	(7 226 52 1.25 0.0025 0.03 17.30 65.20 3.99 14.40	41.10 2.27 9.75	0.002 0.001 0.002 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.003	0.005 0.015 0.020 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.001 0.002 0.001	75.00 3.72 18.00	95.70 4.33 22.70	0.025 0.032 0.003 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02 02 02 05 05 05 05 05 05 05 05 05 05 05 05 05	0.001 0.002 0.003 0.003 0.004 0.001 0.001 0.001 0.001 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003	67.70 3.41 15.70	0.000 0.000	0.002 0.001 0.003 0.003 0.003 0.003 0.003 0.003 0.001 0.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	005 005	68.70 3.24 16.10	0.005 0.002 0.003 0.003 0.003 0.003 0.001			6.7 2.29 4.6 0.2 0.01 0.15 22.40 77.80 3.51 18.10	7 231 43 0.2 0.01 0.89 22.03 72.89 3.38 17.15
Flacence (etc.) Phenometrees (col.) Phenometrees (col.) Flacenthere (col.) Flacenthere (col.) Flacenthere (col.) Chrystee (col.) Chrystee (col.) Chrystee (col.) General (col.) Beneral (c	0.0062 (AA) (1 8.7) 0.12 (MAC 1)		7 226 52 1.25 0.0025 0.03 17.30 65.20 3.99	41.10 2.27	0.002 0.001 0.002 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.003	0.005 0.015 0.020 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.001 0.002 0.001	75.00 3.72	95.70 4.33	0.025 0.032 0.003 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02 02 02 02 02 02 02 02 02 02 02 02 02 0	0.001 0.002 0.003 0.003 0.004 0.001 0.001 0.001 0.001 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003	67.70 3.41	0.000 0.000	0.002 0.001 0.003 0.003 0.003 0.003 0.003 0.003 0.001 0.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	005 005	68.70 3.24	0.005 0.002 0.003 0.003 0.003 0.003 0.001			6.7 249 46 0.2 0.01 0.15 22.40 77.80 3.51	7 231 43 0.2 0.01 0.89 22.03 72.89 3.38 17.15 35.75
Flacence (ss) Plemantimes (cs) Plemantimes (cs) Flacentimes (cs) Proceeding (cs) Proceeding (cs) Proceeding (cs) Proceeding (cs) Percentimes (0.0063 (AA) (1 8.7) 0.12 (A6C 1)		7 226 52 1.25 0.0025 0.03 17.30 65.20 33.99 14.40 32.00	41.10 2.27 9.75	G.002 G.002 G.002 G.002 G.002 G.002 G.002 G.002 G.002 G.002 G.003	0.005 0.015 0.020 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.001	75.00 3.72 18.00	95.70 4.33 22.70	0.025 0.032 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02 02 02 02 02 02 02 02 02 02 02 02 02 0	0.001 0.002 0.003 0.003 0.004 0.006 0.001 0.002 0.003	67.70 3.41 15.70	0.000 0.000	0.002 0.001 0.001 0.002 0.003 0.003 0.003 0.001 0.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	005 005 005 005 005 005 005 005 005 005	68.70 3.24 16.10	0.005 0.002 0.003 0.003 0.003 0.003 0.003 0.005 0.005 0.005 0.001			6.7 249 46 0.2 0.01 0.15 22.40 77.80 3.51 181.0 3.33 3.33 3.33 3.33	7 231 43 0.2 0.01 0.89 22.03 72.89 3.38 17.15 35.75 1.0
Placeme (es) Pleasantere (so) Pleasantere (so) Fluerantere 0.0063 (AA) (1 8.7) 0.12 (A6C 1)		7 226 52 1.25 0.0025 0.03 17.30 65.20 3.99 14.40 32.00 15 20 627	41.10 2.27 9.75	G.002 G.002 G.002 G.002 G.002 G.002 G.002 G.002 G.002 G.002 G.003	0.005 0.015 0.020 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.001	75.00 3.72 18.00	95.70 4.33 22.70	0.025 0.032 0.003 0.003 0.003 0.003 0.003 0.003 0.0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.003	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02 02 02 02 02 02 02 02 02 02 02 02 02 0	0.003 0.002 0.003 0.003 0.003 0.004 0.006 0.001 0.002 0.003	67.70 3.41 15.70	0.000 0.000	0.002 0.003 0.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000 001 001 001 001 001 001 001 001 001	68.70 3.24 16.10	0.005 0.002 0.003 0.003 0.003 0.003 0.003 0.003 0.005 0.005 0.005 0.005 0.005 0.005 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.003 0.003 0.004 0.005			6.7 249 46 0.2 0.01 77.80 77.80 15.3 15.1 10 667	7 231 43 0.2 0.01 0.89 22.03 72.89 3.38 17.15 35.75 1.0	
Flacence (ss) Plenantirerus (ac) Plenantirerus (ac) Flacentirerus (ac) Flacentirerus (ac) Prore (ac) Prore (ac) Prore (ac) Propertirerus Plenantirerus (ac) Propertirerus Plenantirerus (ac) Plenantirerus	0.0063 (AA) (1 8.7) 0.12 (A6C 1)	(7 226 52 1.25 0.0025 0.03 17.30 65.20 3.99 14.40 32.00 15 20 627 0.03	41.10 2.27 9.75	0.002	0.005 0.029 0.029 0.003 0.003 0.003 0.003 0.003 0.001	75.00 3.72 18.00	95.70 4.33 22.70	0.025 0.032 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02 02 02 02 02 02 02 02 02 02 02 02 02 0	0,003 0,002 0,003 0,003 0,004 0,004 0,004 0,004 0,003	67.70 3.41 15.70	0.000 0.000	0.002 0.003 0.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	005 005 0091 0091 0091 0091 0091 0091 00	68.70 3.24 16.10	0.005 0.002 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.001 0.002 0.003			6.7 249 46 0.2 0.01 0.15 27.480 77.800 18.10 1.5 1.5 1.0 667 0.15	7 231 43 0.2 0.01 0.89 22.03 72.89 3.38 17.15 35.75 1.0 630 0.89
Flacence (as) Pleasanthree (as) Pleasanthree (as) Flacenthree 0063 (AA) (1 8.7) 0.12 (A6C 1)	(7 226 52 1.25 0.0025 0.03 17.30 65.20 3.99 14.40 32.00 15 20 627	41.10 2.27 9.75	G.002 G.002 G.002 G.002 G.002 G.002 G.002 G.002 G.002 G.002 G.003	0.005 0.015 0.020 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.001	75.00 3.72 18.00	95.70 4.33 22.70	0.025 0.032 0.003 0.003 0.003 0.003 0.003 0.003 0.0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.003	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02 02 02 02 02 02 02 02 02 02 02 02 02 0	0.003 0.002 0.003 0.003 0.003 0.004 0.006 0.001 0.002 0.003	67.70 3.41 15.70	0.000 0.000	0.002 0.003 0.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000 001 001 001 001 001 001 001 001 001	68.70 3.24 16.10	0.005 0.002 0.003 0.003 0.003 0.003 0.003 0.003 0.005 0.005 0.005 0.005 0.005 0.005 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.003 0.003 0.004 0.005			6.7 249 46 0.2 0.01 77.80 77.80 15.3 15.1 10 667	7 231 43 0.2 0.01 0.89 22.03 72.89 3.38 17.15 35.75 1.0	

The Water Framework Directive Priority Substances and Classification) Regulations (Riorithen Instance) 2015 Freshwater.
 The Water Framework Directive Priority Substances and Classification) Regulations (Riorithen Instance) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Riority Riority Substances) 2015 Freshwater.
 The Consequence Translate Water (Priority Substances) 2015 Freshwater.
 Instances Water (Priority Water Framework Directive) (Englands Water (Water Substance) 2015 Freshwater.
 Instances Water (Priority Water Substance)
 In Wind (World Header) Substance (* Riority Water Substance)
 In Wind (World Header) (Priority Water Substance)
 In Wind (World Header) (Priority Water Substance)
 Wind (World Header) (Priority Water Guideline)
 Wind (World Header)
 Wind (World Header)
 World (World Header)
 Water Guideline

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EQS). Where the MAC EQS are marked as "not applicable", the AA-EQS values are considered protein against short term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of acute

Note: 4 COSD coval able derived via the Metal Bionavailability Assessment Tool (M. MAT) developed by WET IAL. Look at recoptor specific assessment using the Matter and Cost a

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)						BH103																	
HEAVY METALS	l/gu					08/11/2021		20/07/2016 09/08/2016			11/01/2017	06/03/2017		20/07/2017	15/08/2017	31/08/2017		12/01/2018	20/02/2018	09/04/2018		27/05/2018	28/06/2018		17/10/2018
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)	10.00	0.23	0.31	0.31		0.13		10.00	12.50			2.92				12.50	10.00			10.00	10.00		10.00	
	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l	1.000				0.393			1.000	5.000			0.125				5.000	1.000				1.000		1.000	
Chromium (diss.filt)	50 (5)	0.125	0.125	0.125		0.125			2.500	12.500			0.125		0.125	0.125		2.500				2.500	_	2.500	_
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (ΔΔ) (18.2)	34.94 2.500	1.663 20	2.723	2.232	2.117	1.338		12.800 27000	10.000 7670			0.377		-		10.000	9.760		+	2.500	5.600 13600	1	2.500 10200	_
Iron (diss.) Mercury (diss.filt)	0.07 MAC (182)	20 0.0025	0.0025	0.0025	20	20 0.0025	20		27000	0.0025			0.0025				18500				0.0025	0.0025		0.0025	
Manganese (diss.filt)	123 (AA) (*********************************	276.92 8410	7630	7940	0.0025	7110	5700		12000	6880			8200				9020	0.0025 6630			6690	7320	_	6700	_
	70 (8) 2																								
Nickel (diss.filt)	4 (MAC) (182) (AA) (1), 8.6 (AA) (2), 34 (MAC) (182)	14.98 6.93	7.10	8.95	9.69	6.60	5.66		2.50	12.50			4.73				12.50	5.51			6.29			6.58	
Lead (diss.filt)	1.2(MAC) (1AA) (1), 1.3 (AA) (2), 14 (MAC) (1&2)	9.64 10	0.125	0.125	0.025	0.125	0.125		10	12.5			0.125				12.5	10			10	10		10	
Antimony (diss.filt) Selenium (diss.filt)	5 (5)	10 0.10	0.10	0.10	0.10	0.10	0.10						0.81		0.10	0.10									
Zinc (diss.fit)	10(5) 10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (MAR HORZ)	10 0.10 37.15 2.72	2.24	3.24	2.43	1.64	1.89						3.81		0.10	0.10									
Iron (Total)	10.5 (AA) (1) +ABC bloavallable 0.5 (AA) (2) +ABC	37.15 2.72		3.24 145.0741346		1.64 381.7746281			3.38	10.00	15900	25800	3.81 18800				10.00 22700	6.39	17600	11100	b.35	5.59	15000	5.69	_
Manganese (Total)			7700			7140					6820	9520	8140				8880		6440	6640			7440		
Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)	0.13	0.13	0.13	0.13	0.13	0.13																		
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)	0.025	0.025	0.025	0.025	0.255	0.025								0.025	0.025									
Aluminium (diss.filt)		20	20	20	20	20	20		20	50			50				50	20			20	20		20	
Vanadium (diss.filt)		0.125	0.125	0.125	0.075	0.125	0.125						0.125							1					_
	ug/l 7.7 (1&2) 46 (95th%ile) (1&2)	22 50		90.00	22.50	22.50	22.50							1.25					22.50	22.50			22.50		22.50
Phenois, Total Speciated TPH	ug/I	11.00																							
Aliphatics EC CS-C6																									
EC CS-06	15000 (7)	10		10	10	10	10			25		25			10	10			10	10			10		10
EC>06-08 EC>08-010	15000 (7) 300 (7)	12.5	+	12.5	12.5	12.5 7.5	12.5 7.5			30		30			12.5 7.5	12.5			12.5 7.5	12.5	-	-	12.5 7.5		12.5 7.5
EC>C10-C12	300 (7)	7.5	+	7.5	/3	7.5	7.5		-	3.5		0.05			7.5	7.5		-	7.5	7.5	-	-	/5		7.5
EC>C12-C16	300 (7)	+	_							5.5		5							- 5	5			5		5
EC>C16-C21										2.5		2.5							5	5			5		5
EC>C21-C35										10		10							5	5			5		5
EC>C35-C44										2.5		2.5							5	5			5		5
Aromatics FC C5-C7	10 (7)	1				21.468	-			0.025		0.025			1	1			1	1	_	_	1		1
EC>C7-C8	700 (7)	2.5	_	2.5	7.5	16.281	7.5			0.025		0.025			2.5	2.5		-	2.5	2.5			2.5		2.5
EC>C8-C10	300 (7)					10.00				0.025					25	25			25	25			25		25
EC>C10-C12	90 (7)									3.5									5	5			5		25 5 10
EC>C12-C16	90 (7)									3		3							5	5			5		10
EC-C16-C21 EC-C21-C35				_						15		15 15							5	5	_	_	5		20
	90 (7) 10 (AA) MAC 50 (1) 8 (AA) MAC 50 (2)	0.50	_	0.50	0.50	9.41	0.50			15		15			0.50	0.50		-	5	5			5		0.50
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)	0.50	_	0.50	0.50	12.06									0.50	0.50									0.50
Ethylbenzene	300 (8)	0.50		0.50	0.50	0.50	0.50								0.50	0.50									0.50 0.50
p/m-Xylene		1.00		1.00	1.00	3.47	1.00								1.00	1.00									1.00 0.50
o-Xylene Sum of detected Xylenes	500 (8)	0.50 1.50		0.50 1.50	0.50	0.50 3.85	0.50								0.50	0.50									0.50
Polyaromatic Hydrocabons	ug/I	1.50		1.50	1.50	3.65	1.50																		
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)	0.004		0.227		0.232									0.004				0.004				0.004		0.004
Acenaphthylene (aq)		0.002		0.050		0.039									0.002	0.002			0.002				0.002		0.002
Acenaphthene (aq)		0.001		0.077	0.012	0.035	0.025								0.001	0.001			0.001	0.001			0.001		0.001
Fluorene (aq) Phenanthrene (aq)		0.002	_	0.089		0.018									0.002	0.002		-	0.002	0.002			0.002		0.002 0.003
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)	0.003	_	0.014	0.013	0.008	0.009								0.003	0.003			0.003	0.003			0.003		0.003
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)	0.020		0.009	0.016	0.015	0.007								0.001	0.001			0.001	0.001			0.001		0.003 0.001
Pyrene (aq)	-	0.015		0.014	0.010	0.017	0.010								0.001	0.001			0.001	0.001			0.001		0.001
Benzo(a)anthracene (aq)	-	0.001 0.003	+	0.001	0.009	0.001	0.001								0.001	0.001			0.001	0.001			0.001		0.001
Chrysene (aq) Benzo(b)fluoranthene (aq)	0.017 (MAC) (182)		+	0.001	0.011	0.001	0.002	 	1			-			0.001	0.001					-	-	0.001		0.001 0.001
Benzo(k)fluoranthene (aq)																									0.001
	0.017 (MAC) (182)	0.001		0.003		0.001	0.001			-					0.001	0.001		-	0.001	0.001			0.001		
Benzo(a)pyrene (aq)	0.017 (MAC) (182) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	0.001 0.001 0.001		0.003	0.012	0.001 0.004	0.001								0.001	0.001			0.001 0.001 0.001	0.001 0.001 0.001			0.001		0.001
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2) 0.00017 (AA) (1&2) MAC (0.27 (1) 0.027 (2))	0.001 0.001 0.001		0.003 0.008 0.005	0.012 0.019 0.006	0.001 0.004 0.001	0.001 0.011 0.001								0.001 0.001 0.001	0.001 0.001 0.001			0.001 0.001 0.001	0.001 0.001 0.001			0.001 0.001 0.001		0.001
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq)	:	0.001 0.001 0.001 0.002		0.003 0.008 0.005 0.009	0.012 0.019 0.006 0.002	0.001 0.004 0.001 0.002	0.001 0.011 0.001 0.007								0.001 0.001 0.001 0.002	0.001 0.001 0.001 0.002			0.001 0.001 0.001 0.002	0.001 0.001 0.001 0.002			0.001 0.001 0.001 0.002		0.001 0.001 0.002
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq) Benzo(a,h,i)perviene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	0.001 0.001 0.001		0.003 0.008 0.005 0.009	0.012 0.019 0.006	0.001 0.004 0.001 0.002	0.001 0.011 0.001 0.007								0.001 0.001 0.001	0.001 0.001 0.001 0.002			0.001 0.001 0.001 0.002	0.001 0.001 0.001			0.001 0.001 0.001		0.001
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq) Benzo(q,h,i)perylene (aq) INORGANICS	:	0.001 0.001 0.001 0.002 0.002		0.003 0.008 0.005 0.009	0.012 0.019 0.006 0.002	0.001 0.004 0.001 0.002	0.001 0.011 0.001 0.007	20 13		39		18	41		0.001 0.001 0.001 0.002	0.001 0.001 0.001 0.002	41		0.001 0.001 0.001 0.002 0.002	0.001 0.001 0.001 0.002 0.002			0.001 0.001 0.001 0.002	48	0.001 0.001 0.002 0.001
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq) Benzo(a,h)perylene (aq) INORGANICS Dissolved Organic Carbon pH	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	0.001 0.001 0.001 0.002 0.002 4.5	3.1 6.8	0.003 0.008 0.005 0.009 0.008 4.7 7.4	0.012 0.019 0.006 0.002 0.006	0.001 0.004 0.001 0.002 0.002	0.001 0.011 0.001 0.007 0.001 2.7 6.8	7.5 8.2		3.9		3.8	4.1 6.7		0.001 0.001 0.001 0.002	0.001 0.001 0.001 0.002	4.1 6.6		0.001 0.001 0.001 0.002 0.001 4.8 6.6	0.001 0.001 0.001 0.002 0.001 4.8 6.8			0.001 0.001 0.001 0.002 0.001 4.7 6.8	4.8	0.001 0.001 0.002 0.001
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq) Benzo(a,h)perylene (aq) INORGANICS Dissolved Organic Carbon pH Alkalinity (Total)		0.001 0.001 0.001 0.002 0.002 0.001 4.5 7 218	3.1 6.8 225	0.003 0.008 0.005 0.009 0.008 4,7 7,4 280	0.012 0.019 0.006 0.002 0.006 7.2 292	0.001 0.004 0.001 0.002 0.001 6 7	0.001 0.011 0.001 0.007 0.001 2.7 6.8 187	7.5 8.2 170 200		163		6.6 176	6.7 174		0.001 0.001 0.001 0.002	0.001 0.001 0.001 0.002	6.6 184		0.001 0.001 0.001 0.002 0.001 4.8 6.6	0.001 0.001 0.001 0.002 0.001 4.8 6.8			0.001 0.001 0.001 0.002 0.001 4.7 6.8 182	6.8 182	0.001 0.001 0.002 0.001
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq) Benzo(q,h)perylene (aq) INORGANICS Dissolved Organic Carbon pH Alkalinity (Total) Chloride	0.0082 (MAC) (1) & 0.00082 (MAC) (2)	0.001 0.001 0.002 0.002 0.001 4.5 7 218 39	3.1 6.8 225 34	0.003 0.008 0.005 0.009 0.008 4,7 7,4 280 51	0.012 0.019 0.006 0.002 0.006 7.2 292 51	0.001 0.004 0.001 0.002 0.001 6 7 224 40	0.001 0.011 0.001 0.007 0.001 2.7 6.8 187 41	7.5 8.2 170 200 67 23		163 108		6.6 176 145	6.7 174 88		0.001 0.001 0.001 0.002	0.001 0.001 0.001 0.002	6.6 184 103		0.001 0.001 0.001 0.002 0.001 4.8 6.6 188	0.001 0.001 0.001 0.002 0.001 4.8 6.8 186 78			0.001 0.001 0.001 0.002 0.001 4.7 6.8 182 76	6.8 182 108	0.001 0.001 0.002 0.002
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq) Berzo(a,h)perylene (aq) BROSCHENES BROSCHENES Dissolved Organic Carbon pH Alkalinity (Total) Chloride Armoniscal Nitrogen		0.001 0.001 0.001 0.002 0.002 0.001 4.5 7 218 39 0.2	3.1 6.8 225 34 0.36	0.003 0.008 0.005 0.009 0.008 4.7 7.4 280 51 0.2	0.012 0.019 0.006 0.002 0.006 7.2 292 51 0.2	0.001 0.004 0.001 0.002 0.001 6 7 224 40 0.53	0.001 0.011 0.001 0.007 0.001 2.7 6.8 187 41 0.54	7.5 8.2 170 200 67 23 0.014 0.098		163 108 1.08		6.6 176 145 1.95	6.7 174 88 1.44		0.001 0.001 0.001 0.002	0.001 0.001 0.001 0.002	6.6 184 103 2.13		0.001 0.001 0.001 0.002 0.002 0.001 4.8 6.6 188 108	0.001 0.001 0.001 0.002 0.001 4.8 6.8 186 78 2.14			0.001 0.001 0.001 0.002 0.001 4.7 6.8 182 76 2.13	6.8 182 108 2.08	0.001 0.001 0.002 0.002
Indeno(1,2,3-cd)pyrene (ag) Dibenzo(a,b)perthrece (ag) Benzo(a,b)perylene (ag) INORGANICS Dissolved Organic Carbon pH Alkaintly (Total) Chloride Ammoniscal Nitrogen Nitrite	0.0082 (MAC)(1) 8.00082 (MAC) (2) mol/1 6.9 (284) 6.9 (284) 250 (5)	0.001 0.001 0.002 0.002 0.001 4.5 7 218 39 0.2	3.1 6.8 225 34 0.36 0.01	0.003 0.008 0.005 0.009 0.008 4.7 7.4 280 51 0.2 0.01	0.012 0.019 0.006 0.002 0.006 7.2 292 51 0.2	0.001 0.004 0.001 0.002 0.001 6 7 224 40 0.53 0.01	0.001 0.011 0.001 0.007 0.001 2.7 6.8 187 41 0.54	7.5 8.2 170 200 67 23 0.014 0.098 0.11 0.01		163 108 1.08 0.03		6.6 176 145 1.95 0.0025	6.7 174 88 1.44 0.031		0.001 0.001 0.001 0.002	0.001 0.001 0.001 0.002	6.6 184 103 2.13 0.008		0.001 0.001 0.001 0.002 0.001 4.8 6.6 188 108 1.98	0.001 0.001 0.001 0.002 0.001 4.8 6.8 186 78 2.14			0.001 0.001 0.001 0.002 0.001 4.7 6.8 182 76 2.13	6.8 182 108 2.08 0.000	0.001 0.001 0.002 0.002
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)nehrvacene (aq) Benzo(a,h)perylene (aq) BNO(6ANICS Dissolved Organic Carbon pt Alkalinty (Total) Chloride Armoniacal Nitrogen Nitrate Nitrate		0.001 0.001 0.001 0.002 0.002 0.001 4.5 7 218 39 0.2 0.01	3.1 6.8 225 34 0.36	0.003 0.008 0.005 0.009 0.008 4.7 7.4 280 51 0.2 0.01 0.125	0.012 0.019 0.006 0.002 0.006 7.2 292 51 0.2	0.001 0.004 0.001 0.002 0.001 6 7 224 40 0.53 0.01 1.9	0.001 0.011 0.001 0.007 0.001 2.7 6.8 187 41 0.54 0.01 2.96	7.5 8.2 170 200 67 23 0.014 0.098 0.11 0.01	24.70	163 108 1.08		6.6 176 145 1.95	6.7 174 88 1.44 0.031		0.001 0.001 0.001 0.002	0.001 0.001 0.001 0.002	6.6 184 103 2.13 0.008 1.14	45.10	0.001 0.001 0.001 0.002 0.002 0.001 4.8 6.6 188 108	0.001 0.001 0.001 0.002 0.001 4.8 6.8 186 78 2.14	63.40		0.001 0.001 0.001 0.002 0.001 4.7 6.8 182 76 2.13	6.8 182 108 2.08	0.001 0.001 0.002 0.002
Indemo(1,2,3-od)pyrene (sa) Debero(a,h)anthracene (sa) Benzo(a,h)perylene (sa)	0.0082 (MAC)(1) 8.00082 (MAC) (2) mol/1 6.9 (284) 6.9 (284) 250 (5)	0.001 0.003 0.003 0.001 0.002 0.001 4.5 2.7 2.18 2.19 0.0.2 0.0.1 1.4 2.2.67	3.1 6.8 225 34 0.36 0.01 1.17 26.52	0.003 0.008 0.005 0.009 0.008 4.7 7.4 280 51 0.2 0.01	0.012 0.019 0.006 0.002 0.006 7.2 292 51 0.2 0.01	0.001 0.004 0.001 0.002 0.001 6 7 224 40 0.03 0.01 1.9 23.84	0.001 0.001 0.001 0.007 0.001 2.7 6.8 187 41 0.54 0.01 2.96	7.5 8.2 170 200 67 23 0.014 0.098 0.11 0.01	24.70	163 108 1.08 0.03 0.33		6.6 176 145 1.95 0.0025	6.7 174 88 1.44 0.031 0.91 48.10		0.001 0.001 0.001 0.002	0.001 0.001 0.001 0.002	6.6 184 103 2.13 0.008	45.10	0.001 0.001 0.001 0.002 0.001 4.8 6.6 188 108 1.98	0.001 0.001 0.001 0.002 0.001 4.8 6.8 186 78 2.14 0.013	63.40		0.001 0.001 0.001 0.002 0.001 4.7 6.8 182 76 2.13	6.8 182 108 2.08 0.000 0.43 71.40	0.001 0.001 0.002 0.002
Inderro(1,2,3-cd)prere (sa) Debroto(a,h)pretry some (sa) Benro(a,h)pretry some (sa) Benro(a,h)pretry some (sa) Benro(a,h)pretry some Benro(a,h)pretry (sa) Benro(a,h)pretry (sa) Choride Ammonisco Mitrogen Metrie Ammonisco Mitrogen Metrie Substate Substate Substate Substate Substate Substate Substate	0.0082 (MAC)(1) 8.00082 (MAC) (2) mol/1 6.9 (284) 6.9 (284) 250 (5)	0.001 0.001 0.001 0.002 0.002 0.003 4.5 7 2.18 39 0.2 0.01 2.2.5/	3.1 6.8 225 34 0.36 0.01 1.17 26.52	0.003 0.008 0.005 0.009 0.009 0.008 4.7 7.4 280 0.2 0.01 0.2 5.1 0.2 0.01 25.61	0.012 0.019 0.006 0.002 0.006 7.2 292 51 0.2 0.01 0.125 22.05	0.001 0.004 0.001 0.002 0.001 6 7 224 40 0.53 0.01 1.9 23.84	0.001 0.001 0.001 0.007 0.001 2.7 6.8 187 41 0.54 0.01 2.96 29.27	7.5 8.2 170 200 67 23 0.014 0.098 0.11 0.01	24.70 36.20	163 108 1.08 0.03		6.6 176 145 1.95 0.0025	6.7 174 88 1.44 0.031 0.91 48.10		0.001 0.001 0.001 0.002	0.001 0.001 0.001 0.002	6.6 184 103 2.13 0.008 1.14 55.38	45.10 59.40	0.001 0.001 0.001 0.002 0.001 4.8 6.6 188 108 1.98	0.001 0.001 0.001 0.002 0.001 4.8 6.8 186 78 2.14 0.013	61.10		0.001 0.001 0.001 0.002 0.001 4.7 6.8 182 76 2.13	6.8 182 108 2.08 0.000 0.43 71.40	0.001 0.001 0.002 0.002
Inderrol (, 2, 3-d) prime (six) Diberrol (, h) phirthresone (six) Bernol (, h) phirthresone (s	0.0082 (MAC)(1) 8.00082 (MAC) (2) mol/1 6.9 (284) 6.9 (284) 250 (5)	0.001 0.003 0.003 0.001 0.002 0.001 4.5 7 218 33 3.2 0.01 1.4 22.67	3.1 6.8 225 34 0.36 0.01 1.17 26.52	0.003 0.008 0.005 0.009 0.008 4.7 7.4 280 51 0.2 0.01 0.125 25.61	0.012 0.019 0.0006 0.0002 0.0006 0.0002 0.0006 7.2 292 51 0.2 0.01 0.125 22.05	0.001 0.004 0.001 0.002 0.001 6 7 224 40 0.53 0.01 1.9 23.84 71.94	0.001 0.001 0.001 0.007 0.001 2.7 6.8 187 41 0.01 2.96 29.27 68.45 3.64	7.5 8.2 170 200 67 23 0.014 0.098 0.11 0.01	3.44	163 108 1.08 0.03 0.33		6.6 176 145 1.95 0.0025	6.7 174 88 1.44 0.031 0.91 48.10 60.40 5.81		0.001 0.001 0.001 0.002	0.001 0.001 0.001 0.002	6.6 184 103 2.13 0.008 1.14 55.38	45.10 59.40 5.77	0.001 0.001 0.001 0.002 0.001 4.8 6.6 188 108 1.98	0.001 0.001 0.001 0.002 0.001 4.8 6.8 186 78 2.14 0.013	61.10 5.48		0.001 0.001 0.001 0.002 0.001 4.7 6.8 182 76 2.13	6.8 192 108 2.08 0.00 0.43 71.40 65.10 5.43	0.001 0.001 0.002 0.002
Indexio (J.,2-di)prere (an) Diserus (a.) Intrinserie (an) Diserus (a.) Intrinserie (an) Berus (an) Berus (an	5.0082 (MAC)(3) 8.00082 (MAC)(2) mel.l 6.9 (28.4) 280 (5) 59 (5) 280 (5)	0.001 0.001 0.001 0.001 0.002 0.002 0.002 4.5 7 218 90 0.2 0.01 1.4 22.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	3.1 6.8 225 34 0.36 0.01 1.17 26.52 72.74 3.42 17.58	0.003 0.008 0.005 0.009 0.009 0.008 4.7 7.4 280 0.2 0.01 0.2 5.1 0.2 0.01 25.61	0.012 0.019 0.006 0.002 0.006 7.2 292 51 0.2 0.01 0.115 22.05	0.001 0.004 0.001 0.002 0.001 6 7 224 40 0.53 0.01 1.9 23.84 71.94 3.52 16.49	0.001 0.001 0.001 0.007 0.001 2.7 6.8 187 41 0.54 0.01 2.96 29.27 68.45 3.64 15.58	7.5 8.2 170 200 67 23 0.014 0.098 0.11 0.01	3.44 6.39	163 108 1.08 0.03 0.33 49.70		6.6 176 145 1.95 0.0025	6.7 174 83 1.44 0.031 0.91 48.10 60.40 5.81 15.70		0.001 0.001 0.001 0.002	0.001 0.001 0.001 0.002	6.6 184 103 2.13 0.008 1.14 55.38 62.10 6.12 16.20	45.10 59.40	0.001 0.001 0.001 0.002 0.001 4.8 6.6 188 108 1.98	0.001 0.001 0.001 0.002 0.001 4.8 6.8 186 78 2.14 0.013	61.10 5.48 16.20		0.001 0.001 0.001 0.002 0.001 4.7 6.8 182 76 2.13	6.8 182 108 2.08 0.000 0.43 71.40 65.10 5.43 17.40	0.001 0.001 0.002 0.002
Indiano (1,2)-ciliprere (an) Dienera (2,4)-ciliprere (an) Dienera (3,4)-printeriore (an) Benera (3,4)-printeriore (an) Benera (3,4)-printeriore (an) Dienera (3,4)-printeriore (an) Dienera (3,4) Allainin (10ta) Allainin (10	0.0082 (MAC)(1) 8.00082 (MAC) (2) mol/1 6.9 (284) 6.9 (284) 250 (5)	0.001 0.003 0.003 0.001 0.002 0.001 4.5 7 218 33 3.2 0.01 1.4 22.67	3.1 6.8 225 34 0.36 0.01 1.17 26.52	0.003 0.008 0.005 0.009 0.008 4.7 7.4 280 51 0.2 0.01 0.125 25.61 82.53 3.54 19.34	0.012 0.019 0.0006 0.0002 0.0006 0.0002 0.0006 7.2 292 51 0.2 0.01 0.125 22.05	0.001 0.004 0.001 0.002 0.001 6 7 224 40 0.53 0.01 1.9 23.84 71.94	0.001 0.001 0.001 0.007 0.001 2.7 6.8 187 41 0.54 0.01 2.96 29.27 68.45 3.64 15.58	7.5 8.2 170 200 67 23 0.014 0.098 0.11 0.01	3.44	163 108 1.08 0.03 0.33		6.6 176 145 1.95 0.0025	6.7 174 88 1.44 0.031 0.91 48.10 60.40 5.81		0.001 0.001 0.001 0.002	0.001 0.001 0.001 0.002	6.6 184 103 2.13 0.008 1.14 55.38	45.10 59.40 5.77 15.20	0.001 0.001 0.001 0.002 0.001 4.8 6.6 188 108 1.98	0.001 0.001 0.001 0.002 0.001 4.8 6.8 186 78 2.14 0.013	61.10 5.48		0.001 0.001 0.001 0.002 0.001 4.7 6.8 182 76 2.13	6.8 192 108 2.08 0.00 0.43 71.40 65.10 5.43	0.001 0.001 0.002 0.001
Indexiol (2,3-cilporens (as) Diseas(a), higher scene (as) Diseas(a), higher scene (as) Diseas(a), higher scene (as) Diseas(a), diseas(as) Disea	5.0082 (MAC)(3) 8.00082 (MAC)(2) mel.l 6.9 (28.4) 280 (5) 59 (5) 280 (5)	0.001 0.0501 0.0502 0.0502 0.002 0.002 0.002 4.5 7 2.18 39 0.001 1.14 2.2.67 1.25 1.29 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50	3.1 6.8 225 34 0.36 0.01 1.17 26.52 72.74 3.42 17.58 31.91 1.0	0.003 0.005 0.009 0.009 0.009 0.008 4.7 7.4 280 51 0.2 0.01 0.125 25.61 3.54 19.34 19.34 19.34	0.012 0.019 0.006 0.006 0.006 7.2 292 51 0.2 0.01 0.125 22.06 88.20 3.85 20.78 41.72 2.5	0.001 0.004 0.001 0.002 0.001 6 7 224 40 0.53 0.01 1.9 23.84 71.94 3.52 16.49 1.5	0.001 0.001 0.007 0.007 0.007 0.001 2.7 6.8 197 41 0.54 0.01 2.96 2.927 68.45 3.64 15.58 15.58 15.58	7.5 8.2 170 200 67 23 0.014 0.098 0.11 0.01	3.44 6.39	163 108 1.08 0.03 0.33 49.70		6.6 176 145 1.95 0.0025	6.7 174 88 1.44 0.031 0.91 48.10 60.40 5.81 15.70 58.60		0.001 0.001 0.001 0.002	0.001 0.001 0.001 0.002	6.6 184 103 2.13 0.008 1.14 55.38 62.10 6.12 16.20 73.30 2.4	45.10 59.40 5.77 15.20	0.001 0.001 0.002 0.002 0.001 4.8 6.6 1.88 1.08 1.98 0.006 0.63	0.001 0.001 0.001 0.002 0.001 4.8 6.8 186 78 2.14 0.013 1.55	61.10 5.48 16.20		0.001 0.001 0.001 0.002 0.001 4.7 4.8 182 76 2.13 0.02 2.19	6.8.8 1822 1008 2.006 0.000 0.43 77.40 65.10 5.43 17.40 67.50 1.5. 15. 10	0.001 0.001 0.002 0.001
Indexed (2,3-cd)permer (en) Demoid (A) indexed (en) Demoid (A) indexed (en) Demoid (A) indexed (en) Demoid (A) indexed (en) Demoid (en) De	5.0082 (MAC)(3) 8.00082 (MAC)(2) mel.l 6.9 (28.4) 280 (5) 59 (5) 280 (5)	0,001 0,001 0,000	3.1 6.8 225 34 0.36 0.01 1.17 26.52 72.74 3.42 17.58 31.91 1.0 10	0.003 0.005 0.005 0.009 0.008 4.7 7.4 280 51 0.2 0.01 0.125 25.61 82.53 3.54 19.34 37.75 10 722	0.012 0.019 0.006 0.0002 0.0006 7.2 292 51 0.2 0.01 0.125 22.05 88.20 3.88.20 3.87.20 41.72 2.5 10	0.001 0.004 0.001 0.002 0.001 6 7 224 40 0.53 0.01 1.9 23.84 71.94 3.52 16.49 32.86 1.5 10 615	0.001 0.011 0.001 0.007 0.007 0.001 2.7 6.8 127 41 0.54 0.01 2.96 29.27 68.45 3.64 15.58 27.30 1.5 10 564	7.5 8.2 170 200 67 23 0.014 0.098 0.11 0.01	3.44 6.39	163 108 1.08 0.03 0.33 49.70 14.90 57.90		6.6 176 145 1.95 0.0025 0.03	6.7 174 88 1.44 0.031 0.91 48.10 60.40 5.81 15.70 58.60		0.001 0.001 0.001 0.002	0.001 0.001 0.001 0.002	6.6 184 103 2.13 0.008 1.14 55.38 62.10 6.12 16.20 73.30 2.4 41	45.10 59.40 5.77 15.20	0.001 0.001 0.001 0.002 0.001 4.8 6.6 128 108 1.98 0.006 0.63	0.001 0.001 0.001 0.002 0.001 4.8 6.8 186 78 2.14 0.013 1.55	61.10 5.48 16.20		0.001 0.001 0.001 0.002 0.001 4.7 6.8 182 76 2.13 0.02 2.19	6.8.8 1822 1008 2008 2008 2008 2008 2008 2140 0.43 2140 65.10 5.43 17.40 67.50 1.5 10 833	0.001 0.001 0.002 0.001
Indirect (2,2-ct)preme (as) Deeros(A), higher scene (as) Deeros(A), higher scene (as) Deeros(A), higher scene (as) Deschool of premise (as) Deschool of premise (as) Alkalinis (Total) Gloride Americiaca Nitropen Americiaca Nitropen Americiaca Nitropen Potentie Sulphale Sulphale Sulphale Sulphale Sulphale Sulphale Gloride Americiaca Nitropen Bottenesses	5.0082 (MAC)(3) 8.00082 (MAC)(2) mel.l 6.9 (28.4) 280 (5) 59 (5) 280 (5)	0.001 0.0501 0.0502 0.0502 0.002 0.002 0.002 4.5 7 2.18 39 0.001 1.14 2.2.67 1.25 1.29 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50	3.1 6.8 225 34 0.36 0.01 1.17 26.52 72.74 3.42 17.58 31.91 1.0 6.89	0.003 0.005 0.009 0.009 0.009 0.008 4.7 7.4 280 51 0.2 0.01 0.125 25.61 3.54 19.34 19.34 19.34	0.012 0.019 0.006 0.006 0.002 0.006 7.2 292 51 0.2 0.01 0.115 22.05 88.20 3.85 20.78 41.72 2.5	0.001 0.004 0.001 0.002 0.001 6 7 224 40 0.53 0.01 1.9 23.84 71.94 3.52 16.49 1.5	0.001 0.001 0.001 0.007 0.007 0.001 2.7 6.8 187 41 0.54 0.01 2.96 29.27 68.45 3.64 15.58 27.30 1.5	7.5 8.2 170 200 67 23 0.014 0.098 0.11 0.01	3.44 6.39	163 108 1.08 0.03 0.33 49.70		6.6 176 145 1.95 0.0025	6.7 174 88 1.44 0.031 0.91 48.10 60.40 5.81 15.70 58.60		0.001 0.001 0.001 0.002	0.001 0.001 0.001 0.002	6.6 184 103 2.13 0.008 1.14 55.38 62.10 6.12 16.20 73.30 2.4	45.10 59.40 5.77 15.20	0.001 0.001 0.002 0.002 0.001 4.8 6.6 1.88 1.08 1.98 0.006 0.63	0.001 0.001 0.001 0.002 0.001 4.8 6.8 186 78 2.14 0.013 1.55	61.10 5.48 16.20		0.001 0.001 0.001 0.002 0.001 4.7 4.8 182 76 2.13 0.02 2.19	6.8.8 1822 1008 2.006 0.000 0.43 77.40 65.10 5.43 17.40 67.50 1.5. 15. 10	0.001 0.001 0.002 0.001

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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS), Where the MAC-EQS are marked as "not applicable", the AA-EQS subsers occidended protective application-term pollution-peaks in continuous discharges since they are significantly lower than the values derived on the base of aucretio

Note: 4 Total control stable derived via the Metal Biovariability Assessment Total (M-BAT) developed by WFDTAC Look at recordor specific assessment using the M-BAT (Seveloped by WFDTAC Look at recordor specific assessment using the M-BAT (Seveloped by WFDTAC Look at recordor specific assessment using the M-BAT (Seveloped by WFDTAC Look at recordor specific assessment using the M-BAT (Seveloped by WFDTAC Look at recordor specific assessment using the M-BAT (Seveloped by WFDTAC Look at recordor specific assessment using the M-BAT tool with pLOC and Look of looks of least feet of least specific assessment using the M-BAT tool with pLOC and Looks of least sevel took of least sevel least sevel least sevel least tool with plot of least sevel processors from the least blood selection by least tool with plot of least sevel processors from the least blood selection by least tool with plot least sevel l

Sample Point /	TSV	MBAT PNEC				BH104																				
Determinands	ISV	(ug/l)				BH104																				
HEAVY METALS	μg/l		09/01/2019	22/01/2019	11/04/2019	25/04/2019	05/07/2019	09/07/2019	15/10/2019 22	2/10/2019	19/02/2020	26/02/2020	01/07/2020	27/07/2020	28/07/2020	30/07/2020	24/08/2020	07/10/2020	24/11/2020	26/11/2020 16/02/20	21 13/04/20	21 27/07/20	21 08/11/20	21 26/01/2022	18/07/2017	19/10/2017
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2) 0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l		10.00		10.00		10.00		10.00		10.00					10.00	0.72	10.00	0.71	0.39			0.44			12.50
Cadmium (diss.filt) Chromium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₂ >200 mg/l		1.000 2.500		1.000 0.782		1.000 0.250		1.000 0.250		0.025					1.000 2.500	0.127 0.125	1.000 0.125	0.146	0.154 0.125			0.133 0.125		5.000 12.500	5.000
Copper (diss.filt)	1 (AA) binavailable (see Note 1) (1) (see Note 4) (2)	34,94	7.630		2.500		2.500		2.500		2.500					2.500	0.894	2.500	1.080	2.280					10.000	10.000
Iron (diss.)	1000 (AA) (1&2)		10300		20		5540		1770		3430					4800	1747	799	2147	623		3230	745	650	9700	23100
Mercury (diss.filt)	0.07 MAC (182)		0.0025		0.0025		0.0025		0.0025		0.0025					0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	5 0.0025	0.0025	
Manganese (diss.filt) Molybdenum (diss.filt)	123 (AA) (M ² nom ²) 70 (B) 2	276.92	6540		5020		3900		2280		5720					2730	2654.782387	2354.698692	3105.376553	2694.675	33 2815.4248	24 3287.288	88 1782.5265	1876.468076	5390	4500
Nickel (diss.filt)	4*************************************	14.98	5.94		6.36		7.61		7.99		6.98					7.34	6.52	6.40	6.59	5.14	4.36	7.16	6.79	6.00	12.50	12.50
Lead (diss.filt)	1.2(MAC) (1AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64	10		10		10		10		10					10	0.125	10	0.125	0.125	0.125	0.025	0.125	0.125	0.125	12.5
Antimony (diss.filt) Selenium (diss.filt)	5 (5)	10			0.50		0.50		0.50		0.50					1.25	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10		
Zinc (diss.fit)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC	37.15	6.57		2.68		4.87		3.53		4.45					4.10	2.55	5.08	2.32	4.23		6.21	2.41		10.00	10.00
Iron (Total)																		5.00	2507.614129	992.1857	59 1890.8100	79 3942.271	51 926.03379	913 1021.352189	38000	109000
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th1@e (32)																		3240	2734.698	33 2841.2856 0.13	03 3370	1798.840	1919.882883	5070	4430
Chromium III (diss.nit) Chromium VI (diss.fit)	4.7 (AA) (1) 95th*sile (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th*sile) (2)				0.39		0.25		0.25		0.25					0.13	0.13	0.13	0.13 0.025	0.13	0.13	0.13 0.025	0.13		+	
Aluminium (diss.filt)			20		20		20		20		20					20	20	20	20	20	20	20	20	20	50	50
Vanadium (diss.filt)																	0.125	0.125	0.125	0.125	0.125	0.025	0.125	0.125	\bot	
Phenols Phenols, Total	ug/l 7.7 (1&2) 46 (95th%ile) (1&2)			22.50		22.50												22.50			72.50	22.50	22.50	22.50		
Speciated TPH	7.7 (182) 46 (95th falle) (182) ug/l			22.30		22.50												22.50			22.50	22.50	22.90	22.30		
Speciated TPH Aliphatics EC CS-C6	1																									
EC CS-C6	15000 (7) 15000 (7)		1	10 12.5		10 12.5	-	10 12.5				10 12.5	-	10 12.5			10 12.5	10 12.5	-		10 12.5	10 12.5	10 12.5	10 12.5	4'	-
EC>C6-C8 EC>C8-C10	300 (7)			7.5		7.5		7.5				7.5		7.5			7.5	7.5			7.5	7.5	7.5	7.5		
FC>C10-C12	300 (7)			5		5		5				5														
EC>C12-C16 EC>C16-C21	300 (7)			5		5		5				5														
EC>C16-C21 EC>C21-C35				5		5		5 40				5										_		-	+	
EC>C35-C44				5		5		5				5												_	+	\vdash
Aromatics FC CS-C7																										
EC-C7-C8	10 (7) 700 (7)			2.5		1 2.5		2.5				2.5		2.5			2.5	1 2.5			2.5	2.5	2.5	2.5		
EC>C8-C10	300 (7)	_		2.5		2.5		2.5				2.5		2.5			2.5	2.5			2.5	25	2.5	2.5		+
EC>C10-C12	90 (7)			5		5		5				5														
EC>C12-C16 EC>C16-C21	90 (7)			5		5		30				5														\bot
EC>C21-C35	90 (7)			10		20 5		50 5				5										_				
Benzene Toluene	10 (AA) MAC 50 (1) 8 (AA) MAC 50 (2)					0.50		0.50				0.50		0.50			0.50	0.50			0.50	0.50	0.50			1
Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)					0.50		0.50				0.50		0.50			0.50	0.50			0.50	0.50	0.50	0.50		
Ethylbenzene p/m-Xvlene	300 (6)					0.50 1.00		0.50 1.00				0.50 1.00		0.50 1.00			0.50 1.00	0.50 1.00			0.50	0.50 1.00	0.50 1.00		+	\vdash
o-Xylene						0.50		0.50				0.50		0.50			0.50	0.50			0.50	0.50	0.50	0.50		-
Sum of detected Xylenes	500 (8)							1.50				1.50		1.50			1.50	1.50			1.50	1.50	1.50	1.50		
Polyaromatic Hydrocabons Naphthalene (aq)	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)			0.004		0.004		0.028		0.059		0.021						0.004			0.004	0.190	0.032	0.039		
Acenaphthylene (aq)	(AA) (1 at) 150 (FAC 1at)			0.002		0.005		0.003		0.019		0.013						0.002			0.002	0.019	0.010	0.005	+	\vdash
Acenaphthene (aq)				0.001		0.004		0.004		0.006		0.005						0.001			0.001	0.058	0.015	0.029		
Fluorene (aq)	•			0.002		0.002		0.010		0.007		0.002						0.002			0.002					
Phenanthrene (aq) Anthracene (aq)	0.1 (AA & MAC) (1 & 2)	+		0.003		0.003		0.003		0.003		0.003					-	0.018	+		0.003	0.046	0.005		+	1
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)			0.001		0.001		0.007		0.004		0.001						0.014			0.001	0.015	0.008	0.015		
Pyrene (aq)				0.001		0.001	1	0.005		0.005		0.001	1			1	1	0.010	1		0.001	0.005	0.005	0.009	 '	
Benzo(a)anthracene (aq) Chrysene (aq)	-	+		0.001		0.001		0.001		0.001		0.001					 	0.002	+	 	0.001	0.002	0.001		+	
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2)					0.001		0.001		0.001		0.001						0.003			0.001	0.010	0.001	0.002		
Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))			0.000		0.001	1	0.001		0.001		0.001	1			1	1	0.003	1		0.001	0.008			 '	
Indeno(1,2,3-od)pyrene (aq)	0.00017 (MH) (1 & 2) PHIC (0.27 (1) 0.027 (2))	+		0.029		0.001		0.001		0.001		0.001					 	0.005	+	 	0.001	0.008	0.004	0.010	+	
Dibenzo(a,h)anthracene (aq)				0.002		0.002		0.002		0.002		0.002						0.002			0.002	0.002	0.002	0.008		
Benzo(q,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2) mg/l			0.003		0.001		0.001		0.001		0.001						0.003			0.001	0.007	0.001	0.001	\perp	
Dissolved Organic Carbon				6.2		4.6		4.3		3.3		5.5			4.1		4.4	5.2	3.8	2.3	2.5		4.78	2.6		14.1
pH	6 - 9 (2&4)			6.7		7.2		6.9		6.8		7			6.6		6.8	7	6.6	6.7	7.5	6.8	6.8	6.6	7.4	7.3
Alkalinity (Total)	NEA (E)	_		203		183		170		168		225			169		158	182	195	158	157	144	207 47		+===	776
Chloride Ammoniacal Nitrogen	250 (5)	+		92 2.33		95 1.43		0.88	 	54 0.2		38			55 0.83		0.2	45 0.2	1.72	34 0.41	48 0.2	0.5	0.49	44 0.2	117	42 11
Nitrite				0.0025		0.01		0.02		0.01		0.01			0.01		0.01	0.01	0.01	0.01	0.01	0.034	0.01	0.01	0.0025	0.011
Nitrate	50 (5) 250 (5)	_	1	0.88		1.29		0.94		1.65		0.125			0.15		1.38	0.125	0.49	1.76	2.21	2.35	0.47		0.03	0.09
Sulphate Sulphirta	250 (5)		47.00	1	55.50		54.80	 	48.20		71.70		 			64.50	52.43	50.94	58.41	46.47	49.12	68.09	67.92	49.62	161.00	1.50
Sulphide Calcium		1	63.50	1	60.90		61.30	t e	60.10		83.20					62.30	59.80	60.93	68.22	59.05	60.56	60.63	68.88	57.10	361.00	276.00
Potassium			5.66		4.99		4.77		4.55		8.00					4.69	4.16	4.59	6.50	4.32		3.65	4.87	3.76	38.90	16.50
Magnesium Sodium	200(5)		16.90 66.00	1	17.70 57.30		19.00 53.70	1	18.30 39.30		17.00 29.10		1			18.70 43.80	19.33 36.40	19.14 35.90	19.10 29.67	17.18 24.22	19.49 26.15		22.24 42.83	18.67 31.04	39.00 132.00	21.30 40.00
Sodium Biochemical Oxygen Demand	200(5)	_	96.00	1.5	57.30	15	53.70	2.2	39.30	1.5	29.10	1.5	1		1.0	45.80	1.5	35.90	1.0	1.0		54.28 2.5	42.83 1.5		152.00	8.2
Chemical Oxygen Demand				10		10		10		10		10			10		10	10	10	10	10	10	21	10	1	8.2 78
Conductivity				789		757		702		614		694			647		590	612	618	553	566	602	674	561	2127	1540
Total Oxidisable Nitrogen Total Phosphorus			-	0.88		1.29		0.96		1.65 0.125		0.15			0.15		1.38	0.15	0.49	1.76 0.125	2.21 0.125	2.38 0.125	0.47 0.125	2.4 0.125	0.03	0.1
rous Pilospilorus			1	0.125		0.125		0.123		0.11.7		0.125			0.123		0.125	V.125	0.125	0.123	0.125	0.123	0.125	0.125		<u> </u>

The Water Framework Directive Priority Substances and Classification Regulations (Northern Instand) 2015 Freshwater.
 The Water Framework Directive Priority Substances and Classification Regulations (Northern Instand) 2015 Freshwater.
 The Water Framework Directive Priority Substances and Classification Regulations (Northern Instand) 2015 Transitional waters.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EQS), Where the MAC EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basis of acutedrostic.

Nets: 4 (2000 available derived us the Metal Biosvaliability Associated Tool (M. MAT) developed by WET FAL. Look at receptor specific associated study the Metal Biosvaliability associated Tool (M. MAT) developed by WET FAL. Look at receptor specific associated study to the Metal Biosvaliability associated Tool (M. MAT) developed by WET FAL. Look at receptor specific associated study associated to the Metal Biosvaliability associated Tool (M. MAT) developed by WET FAL. Look at receptor specific associatement using the Metal Tool winking 100 cent for all to select the Metal Biosvaliability associated to 100 MAT TOO (M. MAT) developed by WET FAL. Look at receptor specific associatement using the Metal Tool winking 100 cent for all to select the Metal Tool winking 100 centre and 100 web 100 MAT TOO (M. MAT) and 100 MAT) and 100 MAT) and 100 MAT TOO (M. MAT) and 100 MAT) and 100 MAT TOO (M. MAT) and 100 MAT) and 10

Sample Point / Determinands	TSV	MBAT PNEC										BH105														
Determinance		(ugii)																								
HEAVY METALS	μg/l		12/01/2018	20/02/2018	09/04/2018	17/04/2018	27/06/2018	03/10/2018	16/10/2018	08/01/2019 09/0	01/2019 11/04/	05/07/2	019 08/0	7/2019 15/10/2019	23/10/2019	19/02/2020	20/02/2020	14/10/2020	17/02/2021	15/04/2021	27/07/2021	27/10/2021	25/01/2022	27/09/2016 03/10/2	018 10/10/2018	12/10/2018
Arsenic (diss.filt) Cadmium (diss.filt)	50 (AA) (1) 25 (AA (2) 0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l		10.00			10.00	10.00	10.00			0.00 10.0			10.00		10.00		10.00		0.60	10.00	0.00		10.00		
Chromium (diss.filt)	50 (5)		2.500			2.500	2.500	2.500			.500					1.000		2.500		0.372	2.500			2.500		
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (1&2)	34.94	23.000			9.430	15.400	2.500			1.500 34.0			13.600		18.600		8.219		0.125	36.517			83.40	0	
Iron (diss.) Mercury (diss.filt)	1000 (AA) (182) 0.07 MAC (182)		36000			13400	38200	2650		-	5730 6350	17000)	37600		53000		11399		23000	36200	44000	33800	12000		
Manganese (diss.fit)	123 (AA) (888 7008 1)	276.92	3180			3240	5710	815			1200 374	4030		3020		2620		2713.089997		2397.788074	3820	4840	2485.863002	1200		
Molybdenum (diss.filt)	70 (8) ? 4(MAC) (182)	14.98												2.50										A7 A1		
Nickel (diss.filt) Lead (diss.filt)	1.2 (AA) (1), 8.6 (AA) (2), 34 (MAC) (182) 1.2 (MAC) (182)	14.98 9.64	2.50			2.50	2.50	7.06			8.09 2.50	9.09		2.50		2.50		2.50		0.74	2.50			47.40		
Antimony (diss.filt)	5 (5)		10			10	10	10			10 10	- 10		10		10		- 10		0.125	10			10		
Selenium (diss.filt) Zinc (diss.filt)	10(5) 10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (500 700 72)	10 37.15																		0.10						
Zinc (diss.riit) Iron (Total)	10.9 (AA) (1) +ABC DIOSVSIISDIE 6.8 (AA) (2) +ABC	37.15	4.12	44600	30200	3.58	5.31 51100	2.46	-		4.64 7.31	4.05	_	6.91		6.81	-	3.11		0.50 36700	17.55 52800	58000	45800	13.30	_	
Manganese (Total) Chromium III (diss.filt)				3140	3360		5650													2471.829091		4860	2544.205272			
	4.7 (AA) (1) 95th%ile (32)																			0.35						
Chromium VI (diss.filt) Aluminium (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)	+	20	1 1		20	20	20	 		20 70	20	_	20		20	+	20		0.050	20	20	20	20	_	-
Vanadium (diss.filt)																				0.125				10		
Phenois Total	ug/l 7.7 (1&2) 46 (95th%ile) (1&2)																	22.50								22.50
Phenois, Total Speciated TPH	7.7 (182) 46 (95th sale) (182) ug/l																	22.30								22.50
Aliphatics	15000 (7)																									
	15000 (7) 15000 (7)	1	 	1			-		+			_	_		-		1	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5		_	10 12.5
EC>C6-C8 EC>C8-C10 EC>C10-C12	300 (7)	1		1		1	l					_				1	1	833	7.5	7.5	7.5	7.5	7.5			7.5
EC>C10-C12 EC>C12-C16	300 (7)	1													5	1	5									5 5
FC>C16-C21	300 (7)											_	_		5		5									5
EC>C21-C35 EC>C35-C44															5		5									5
													_		5		5									5
Aromatics EC C5-C7	10 (7)	_									_	_						832	1	1	1	1	10.129			1
EC>C7-O8	700 (7)																	2.5	2.5	2.5	2.5	2.5	9.635			2.5
EC>C8-C10 EC>C10-C12	300 (7) 90 (7)														5		5									25 5
EC>C12-C16	90 (7)														5		5									20
EC>C16-C21	90 (7)														5		5									20
EC>C21-C35 Benzene	90 (7) 10 (AA) MAC 50 (1) 8 (AA) MAC 50 (2)								-				_		5	-	5	0.50	0.50	0.50	0.50	0.50	0.50			10 0.50
Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)																	832.00	0.50	0.50	0.50	0.50	9.41			0.50 0.50
Ethylbenzene n/m-Xvlene	300 (8)																	0.50	0.50	0.50	0.50	0.50	0.50			0.50
o-Xylene												_	_					1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50			1.00 0.50
Sum of detected Xvlenes	500 (8)																	1.50	1.50	1.50	1.50	1.50	1.50			
Polyaromatic Hydrocabons Naphthalene (aq)	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)									0.004				.085	2.499		0.314	0.004		2.700	0.052	0.000	0.161			0.045
Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)	_								0.002		_	0.	.010	0.096		0.023	0.002		2.109	0.003	0.006	0.018			0.011
Acenaphthene (aq)										0.013			0.	.086	0.601		0.105	0.004		0.002	0.076	0.157	0.192			0.126
Fluorene (aq) Phenanthrene (aq)									-	0.011				.072 .050	0.423	-	0.059	0.017		0.225	0.058	0.159	0.117			0.143
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)									0.003			0.	.003	0.003	1	0.003	0.003		0.010	0.015	0.014	0.024			0.089
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)	1		+		1			-	0.005			0.	018	0.106	1 -	0.009	0.011	1	0.027	0.018	0.042	0.033			0.233
Pyrene (aq) Benzo(a)anthragene (aq)	-	+		1 1					 	0.001		_	0.	.018 .005	0.003	1	0.002	0.008		0.021	0.012	0.042	0.037		_	0.244 0.175
Chrysene (aq)	•									0.001			0.	.007	0.009		0.003	0.002		0.004	0.003	0.020	0.006			0.175
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.0017 (MAC) (18.2) 0.00017 (AA) (18.2) MAC (0.27 (1) 0.027 (2))	1	 	1			-		+			_	0.	010 011	0.007		0.001	0.001		0.002	0.006	0.018	0.004		_	0.107 0.107
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	1	t	1			l			0.020			0.	.004	0.002	1	0.002	0.001		0.003	0.008	0.017	0.024			
Indeno(1,2,3-cd)pyrene (aq)	-	1								0.005			0.0	.001	0.014	1	0.001	0.001		0.004	0.006	0.030	0.001			0.049
Dibenzo(a,h)anthracene (aq) Benzo(q,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	+	-	1		1			+	0.010		-	0.	.005 .001	0.002 0.013	1	0.002 0.001	0.002	1	0.002	0.002	0.007	0.019		_	0.049 0.030 0.057
INORGANICS	mg/l																				1,1					
Dissolved Organic Carbon	6 - 9 (2&4)	1	— —	1 -	15.6 7.8		13.7 6.8		31.4		7.1 6.8		1	6.1	13.5 6.8	1 -	13 6.7	10.8		8.8 6.8	6.9	12.5 6.8	12 6.8	11 6.7	9.2 6.7	
pH Alkalinity (Total)		+	 	+ +	7.8		745		347		7.1 6.8 467 602			97	572	1	607	565		6.8 565	743	726	5.8 522	190	344	-
Chloride	250 (5)				33		23		23		17 26			36	22		28	213		12	28	20	24	51	98	
Ammoniacal Nitrogen Nitrite		1		11.1	11.6 0.0025	1	9.9 0.029		1.06 0.009		1.66 7.9 1.005 0.0			9.7 1.01	8.53 0.01	1	11.55 0.01	84.93 0.01	1	5.35 0.01	12.96 0.01	11.45 0.01	8.68 0.01	0.01 0.021	4.19 0.025	1
Nitrate	50 (5)	+		1 -	0.0025		0.03		0.11		0.03 0.1			.125	0.125		0.125	0.01		0.125	0.125		0.125	0.021	0.03	
Sulphate	50 (5) 250 (5)		3.24			120.00	8.13	109.00		1	40.00 220.0			5.64		80.10		3.58		7.23	3.20	1.75	3.46	99.30		
Sulphide Calcium		+	207.00	1 1		281.00	246.00	152.00			03.00 278.0		0	189.00		226.00	 	185.00		195.00	238.00	254.00	184.00	117.0	. —	\vdash
Potassium		1	14.80	1 1		17.20	18.70	9.69	 		8.31 11.5	15.90		189.00		12.40	1	185.00		195.00		254.00 14.32	184.00	117.0		
Magnesium			19.40			24.80	26.00	16.70		- 1	9.30 15.8	20.10		13.40		16.50		13.15		15.20	21.29	21.70	14.83	36.80		
Sodium Riochemical Overnen Demand	200(5)	+	34.70	1	5.0	36.20	28.70 10.0	20.70	14.0		9.60 26.4 17.0 2.5			21.10	6.3	26.90	7.6	21.25 9.7		20.89	29.50 2.5	30.75 15.0	21.42 9.0	42.70	11.0	-
Biochemical Oxygen Demand Chemical Oxygen Demand					34		84		96		96 10			80	30		10	10		10	25	26	10		10	
Conductivity		1		1324	1565		1503		872		1130 144			380	1120		1390	1120			1394		1133		929	
Total Oxidisable Nitrogen Total Phosphorus		+	-	-	0.03	 	0.03 0.81		0.12		0.03 0.15	_	0	1.15	0.15	-	0.15 0.125	0.15	-	0.15 0.125	0.15 0.125	0.15 0.125	0.15		0.03	_

The Water Framework Directive (Priority Substances and Casoffication) Regulations(Roothen Ireland; 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Casoffication) Regulations(Roothen Ireland; 2015 Transitional waters.
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MAC. This yearneter is the forecomment Loality Standard expressed as a maximum allowable concentration (MAC-EQS) where the MAC-EQS are marked as "not applicable", the AA-EQS subseasor considered protective against when term pollution peak in continuous discharges since they are significantly lower than the value delivers on the basis of acutetics(or).

Note:

Note: 1-Collocovalable derived via the Metal Bioavailability Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-Batt of Collocoval Colloc

Sample Point / Determinands	TSV	MBAT PNEC (ugil)			BH106																
HEAVY METALS	μg/I	09/01/2019 14/01/2019 11/	4/2019 29/04/2019 05/07/2019	17/07/2019 15/10/2019	23/10/2019	01/07/2020	22/07/2020	27/07/2020	30/07/2020	26/08/2020	23/11/2020	17/02/2021	13/04/2021	01/11/2021	26/01/2022	20/07/2016	09/08/2016	27/09/2016	08/03/2017	03/10/2018 11/1	10/2018 12/10/2018
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)	10.00	10.00	10.00					10.00	3.98	9.43	2.96	3.35	2.09	0.74					10.00	
Cadmium (diss.filt) Chromium (diss.filt)	50 (5)	2.500	000 2.090 1.200	1.000 0.250					2.500	0.025	0.025	0.025	0.025	0.125	0.125					2.500	
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94 74.100	.300 58.100	36.000					80.200	0.125	0.449	0.125	0.404	0.273	0.125					95.700	
Iron (diss.) Mercury (diss.filt)	1000 (AA) (182) 0.07 MAC (182)		200 98500 0025 0.0025	94800 0.0025					86100 0.0025	98700 0.0025	79100 0.0025	81700 0.0025	79900 0.0025	104000 0.0025	62900 0.0025					139000 0.0025	
Manganese (diss.filt)	123 (AA) (*********************************		850 10600	11500					11800	12710	8840	10200	10600	15900	13000					19300	
Molybdenum (diss.filt) Nickel (diss.filt)	70 (8) ? 4************************************	14.98 18.10	5.40 19.40						10.70						14.03						
Lead (diss.fit)	1.2(MAC) (1), 8.6 (AA) (2), 34 (MAC) (182) 1.2(MAC) (18.2)	9.64 10	10 10	26.10	+	-			10.70	0.125	0.125	0.125	0.125	0.125	0.125					40.80	
Antimony (diss.fit)	5 (5)	10		050								0.10		0.10							
Selenium (diss.hit) Zinc (diss.fiit)	10(5) 10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (1000 mol/m²)		0.50 5.10 15.80	0.50 16.00	-				4.82	0.10	0.10 28.50	0.10 15.30	0.10	0.10 8.78	0.10 5.25					13.00	
Iron (Total)	The second secon										96000	99700	87200	124000	142000				8220		
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)		0.60	0.25	_				0.13	0.13	9320 0.13	10200 0.13	10700 0.13	26400 0.13	13300 0.13				1440		$\overline{}$
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.025	0.025					0.025	0.025	0.025	0.025	0.025	0.025	0.025						
Aluminium (diss.filt) Vanadium (diss.filt)		20	20 20	20	_				20	20 0.125	20 0.125	20 0.125	20 0.125	0.125	20 0.125					20	$\overline{}$
Phenois	ug/l									0.125	0.125										
Phenols, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2) ug/l	22.50	22.50	22.50	22.50								22.50		22.50						22.50
Aliphatics EC CS-C6																					
	15000 (7)	10	10	10	10	10	10	10		10	10	10	10		10						
EC>C6-C8 EC>C8-C10	15000 (7) 300 (7)	12.5	12.5 7.5	12.5 7.5	12.5	12.5	12.5	12.5		12.5	12.5 7.5	12.5	12.5	-	12.5						
EC>C10-C12	300 (7)	5	110		5																
EC>C12-C16 EC>C16-C21	300 (7)	5	110 5		5								-		-						
EC>C21-C35		110	5		5								1								
EC>C35-C44		5	5		5																
Aromatics EC CS-C7	10 (7)	1	1	1	1	1	1	1		1	1	1	1		1						
EC>C7-C8 EC>C8-C10	700 (7) 300 (7)	2.5	2.5	2.5	2.5	2.5	2.5	2.5		2.5	2.5	2.5	2.5		2.5						
EC>C10-C12	90 (7)	25	25 110		5										+						
EC>C12-C16 EC>C16-C21	90 (7) 90 (7)	30	350		5																=
EC>C16-C21 EC>C21-C35	90 (7)	40 50	550 460		5								-	-	+						
Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)	0.50	0.50	0.50	0.50	0.50	0.50	0.50		0.50	0.50	0.50	0.50	0.50	0.50						2.90
Toluene Ethylbenzene	74 (AA) 95th%le (380) (1), 74 (AA) 95th%le (370) (2) 300 (8)	0.50 0.50	0.50 0.50	0.50 0.50	0.50	0.50	0.50	0.50		0.50	0.50 0.50	0.50	0.50	0.50	0.50 0.50						7.78
p/m-Xylene		1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00						0.50 4.12
o-Xylene Sum of detected Xylenes	500 (8)	0.50	0.50	0.50	0.50	0.50 1.50	0.50 1.50	0.50		0.50	0.50		0.50 1.50		0.50 1.50						0.50
Polyaromatic Hydrocabons	ug/I					1.30	1.30	1.50		1.50											
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)	0.052 0.015	0.187 0.031	0.399	0.210						0.045	0.792	0.136		0.056						0.004 0.001
Acenaphthylene (aq) Acenaphthene (aq)		0.015	0.147	0.228	0.196						0.012		0.002		0.132						0.003
Fluorene (aq)	•	0.189	0.218	0.296	0.312						0.048	0.212	0.026		0.188						0.002
Phenanthrene (aq) Anthracene (aq)	0.1 (AA & MAC) (1 & 2)	0.239 0.236	0.171	0.415 0.250	0.240	-					0.064	0.065	0.049	-	0.061						0.003
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)	0.926	0.247	1.301	0.978						0.160	0.082	0.119		0.130						0.001
Pyrene (aq) Benzo(a)anthracene (aq)	<u> </u>	0.867 0.696	0.021 0.083	1.136 0.513	0.901						0.119	0.059	0.094		0.093						0.003 0.014
Chrysene (aq)	-	0.696	0.100	0.619	0.297						0.046	0.059	0.055		0.054						0.014
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2)		0.156 0.064	0.574 0.317	0.164 0.116		+	+		-	0.043	0.038	0.038	+	0.087 0.041						0.010 0.010
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	0.876	0.082	0.361	0.152						0.019	0.039	0.037		0.090						0.011
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq)	<u> </u>	0.298 0.175	0.117 0.009	0.425	0.094	<u> </u>	 	 			0.058	0.038	0.032	1	0.012						0.006
Renzo(a h i)nerviene (an)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	0.1/5	0.009	0.442	0.009						0.015	0.004	0.002		0.025						0.006
INORGANICS	mg/l		7.7	7	0.0			10.0		10.7	8.3	- 0.1		0.0	40.0	19	140	77			70.7
Dissolved Organic Carbon pH	6 - 9 (2&4)	11.5 6.6	6.6	6.6	9.9 6.5	1	1	10.8		6.6	6.4	9.1 7	6.5	8.6 6.5	10.9 6.4	4	110 7.2	7.1			71.3 6.6
Alkalinity (Total)		296	170	251	248			268		279	259	228	133	391	185	5	1500	1600		3	1584
Chloride Ammoniacal Nitrogen	250 (5)	71 3.89	63 2.56	60 1.58	2.99	+	+	79 1.6		108 0.86	74 1.54	2.39	1.45	0.49	84 0.76	0.005	1.2	370 1.1			220 61
Nitrite		0.021	0.01	0.01	0.01			0.01		0.01	0.01	0.01	0.01	0.01	0.01	0.046	0.01	0.023		0	1.046
Nitrate Sulphate	50 (5) 250 (5)	10.10	0.15 3.20 7.84	0.125	0.125	1	-	0.15	22.30	0.125 76.50	0.125 28.91	0.125 6.76	0.125 4.88	0.125 71.82	0.125 13.94	0.25	0.25	0.25		15.70	0.03
Sulphide	=== /=/																				
Calcium Potassium			2.10 45.00 .91 2.56	46.50 1.56	+	↓ — —	 	 	58.00 1.81	87.35 2.08	62.34 3.15	52.48 2.27	44.48 1.62	83.75 1.72	49.11 1.36					89.20 15.00	-
Magnesium		9.96	.93 9.70	11.00					15.70	25.81	14.15	13.35	10.93	25.74	14.60					35.90	
Sodium	200(5)	57.70	9.60 42.80	53.80					44.80	51.85 12.0	36.41	36.62 5.7	34.89	47.39	35.59					378.00	
Biochemical Oxygen Demand Chemical Oxygen Demand		10.0 134	10	7.3	7.3 10	-	+	12.0 10		10	9.1 10	10	8.6 10	13.0	11.0 10			 			4.9
Conductivity		835	621	676	715			941		1130	770	733	714	1040	813					77	3600
Total Oxidisable Nitrogen Total Phosphorus		0.03	0.15 0.125	0.15 0.125	0.15		+	0.15		0.15 0.125	0.15	0.15 0.125	0.15	0.15	0.15						0.03
- and / Hooganor da					2.443		•	3.07						, ,,,,,							

The Water Framework Directive (Proutly Sobstances and Classification) Regulations(Riothern Instand) 2015 Freehwater.
 The Water Framework Directive (Proutly Sobstances and Classification) Regulations(Riothern Instand) 2015 Freehwater.
 The Classification of the Classification Regulations(Riothern Instand) 2015 Transitional waters.
 The Classification Riothern Rioth

MAC. This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC. EQS). Where the MAC. EQS are marked as "not applicable", the AA-EQS values are considered protective against short term pollution-peaks in continuous discharges since they are significantly lower than the values derived on the basic of acterbook;

Note: CDDCountiable derived via the Metal Bicavalidatily Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT (Seveloped by WFDTAG. Look at receptor specific assessment using the M-BAT (Seveloped by WFDTAG. Look at receptor specific assessment using the M-BAT (Seveloped by WFDTAG. Look at receptor specific assessment using the M-BAT tool winds July Canad Look of the Metal Biovariability's Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool winds July Canad Look of the Section Feed to Section (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool winds July Canad Look of the Section Feed Look of Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool winds July Canad Look of Look of Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool winds July Canad Look of Look of Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool winds July Canad Look of Look of Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool winds July Canad Look of Look of Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT Tool winds July Canad Look of Look of Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M

Sample Point /	TSV	MBAT PNEC				BH107																			
Determinands		(ug/l)																							
HEAVY METALS	l/gu		09/01/2019	14/01/2019	11/04/2019	30/04/2019 01/05/2019	05/07/2019	22/07/2019 23/10/2019	19/02/2020	25/02/2020	05/10/2020	14/04/2021	02/08/2021	02/11/2021	27/01/2022	09/01/2017	10/01/2017	11/01/2017	06/03/2017	07/03/2017	20/07/2017	15/08/2017	31/08/2017	12/01/2018	22/02/2018
Arsenic (diss.filt) Cadmium (diss.filt)	50 (AA) (1) 25 (AA (2) 0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		10.00		10.00		10.00 3.190		10.00 2.390	-	10.00 2.808	5.13 0.084	5.09 0.025	4.86 0.025	3.46 0.025		12.50 5.000				1.62 0.125			10.00	
Chromium (diss.filt)	50 (5)		2.500		8.700						1.270	2.136	1.275	1.279	1.167		12.500				0.125	0.125	0.125	2.500	
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (1&2)	34.94	109.000 139000		2.500 122000		80.800		36.200 117000		19.188	6.044	0.500	0.125	0.125 65200		10.000 262				0.538 50			2.500 635	
Iron (diss.) Mercury (diss.filt)	0.07 MAC (182)		0.0025		0.0025		0.0025		0.0025		0.0025	93300	0.0025	122000	0.0025		0.0025				0.0025			0.0025	
Manganese (diss.filt)	123 (AA) (*********************************	276.92	19900		20500		18800		17100			17700	17700	19700	17200		792				1370			1090	
Molybdenum (diss.filt) Nickel (diss.filt)	A(MAC) (18.9)	14.98	26.50	-	29.40		40.40		36.70	-	42.42	34.81	37.00	34.40	33.30		12.50				2.42			2.50	
Lead (diss.filt)	1.2 (MAC) (182)	9.64	10		10		10		10		10	3.768161343	0.125	0.125	0.125		12.5				0.125			10	
Antimony (diss.filt) Selenium (diss.filt)	5 (5) 10(5)	10		-	0.50				-	-	0.90	0.95	0.96	1.00	0.88						0.32	0.10	0.10		
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC	37.15	20.90		22.90		18.80		15.70		12.89	16.51	7.62	5.75	10.12		10.00				4.44			1.00	
Iron (Total)												120000	152000 20700	124000 17800	103000			7570 885			5070 1400				1996.375597
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)				4.35						1.27	2.14	1.30	1.28	1.20			00.5			1400				1102.173233
Chromium VI (diss.fit)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th*Gle) (2)		- 10		0.025		20		20		0.025	0.025	0.025	0.025	0.025						3	0.025	0.025	- 20	
Aluminium (diss.filt) Vanadium (diss.filt)			20		20		20		20	1	1.010	2.852	1.383	20 1.241	20 1.105		30				0.125			20	-
Phenois Phenois Total	ug/l 7.7 (182) 46 (95th*Gle) (182)			22.50		22.50		790.00 22.50		450.05	930.00					1.25			1.25		1.25				22 SD
Speciated TPH	7.7 (1&2) 46 (95th*tale) (1&2) ug/l			22.50		22.50		/90.00 22.50		150.00	930.00					1.25			1.25		1.25				22.50
Aliphatics EC CS-C6	15000 (7)																								
EC-C6-C6 EC>C6-C8	15000 (7) 15000 (7)	_	-	10 12.5		10 12.5	-	10 12.5	 	10 12.5	10 12.5	-	-	1		25 30	 		25 30			10 12.5	10 12.5		10 12.5
	300 (7)			7.5		7.5		7.5		7.5	7.5					0.05			0.05			7.5	7.5		12.5 7.5
EC>C10-C12 EC>C12-C16	300 (7) 300 (7)			160		110 5		210		5						3.5			-						5
EC>C12-C16 EC>C16-C21	350 (1)			5		Š		10		5						2.5			2.5						5
EC>C21-C35 EC>C35-C44				80		5		360 20		5 5						10			10 2.5						5
Aromatics EC CS-C7				20		5										2.5									5
	10 (7) 700 (7)			1		1		4.3		3.94	3.97					0.025			0.025			1	1		1
EC>C7-C8 EC>C8-C10	300 (7)			2.5 25		2.5 25		2.5		2.5	2.5					0.025			0.025			2.5 25	2.5 25		2.5 25
EC>C10-C12	90 (7)			160		110		210		5						3.5									5
EC>C12-C16 EC>C16-C21	90 (7)			280 230		220 150	-	260		5						3 15			3 15						5
EC>C21-C35	90 (7)			100		5		40		5						15			15						5
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)			3.29		0.50		3.00 1.30		3.94	3.05			0.50		0.50			0.50		0.50	0.50	0.50		0.50
Ethylbenzene	300 (8)			0.50		0.50		0.50		0.50	0.50			0.50		0.50			0.50		0.50	0.50	0.50		0.50
p/m-Xylene o-Xylene				3.96 0.50		1.00 0.50		1.00 0.50		1.00 0.50	1.00 0.50			1.00		0.50			0.50		0.50	1.00 0.50	1.00 0.50		1.00 0.50
Sum of detected Xylenes	500 (8)			0.30		0.30		1.50		1.50	1.50					0.30			0.30		0.30	0.30	0.30		
Polyaromatic Hydrocabons	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)			0.061		0.004		0.982		0.183	0.162										0.500	0.004	0.004		0.004
Naphthalene (aq) Acenaphthylene (aq)	2 (AA) (1 02) 130 (MAC 102)			0.005		0.007		0.217		0.015	0.002										0.500	0.002	0.002		0.002
Acenaphthene (aq)	•			0.006		0.007		0.450		0.024	0.001											0.001	0.001		0.001
Fluorene (aq) Phenanthrene (aq)	*			0.014		0.019 0.076		0.499		0.013	0.021						-					0.002	0.002		0.002
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)			0.006		0.003		0.013		0.003	0.012											0.003	0.003	-	0.003
Fluoranthene (aq) Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)			0.034		0.049		0.298 0.289	-	0.016	0.063											0.001	0.001		0.001
Benzo(a)anthracene (aq)	-			0.058		0.023		0.062		0.002	0.029											0.001	0.001		0.001
Chrysene (aq) Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)			0.058		0.028 0.127	-	0.136 0.074	-	0.007	0.037 0.045			-			1					0.001	0.001		0.001
Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2)					0.057		0.045		0.001	0.050											0.001	0.001		0.001
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.00017 (AA) (1 & 2) MAĆ (0.27 (1) 0.027 (2))			0.634		0.037 0.113	 	0.070 0.125	_	0.001	0.099			\vdash			+					0.001	0.001	$\overline{}$	0.001
Dibenzo(a,h)anthracene (aq)	-			0.099		0.035		0.504		0.002	0.034											0.002	0.002		0.002
Benzo(q,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)			0.069		0.105		0.136		0.003	0.039											0.001	0.001		0.001
Dissolved Organic Carbon				69.8		79.2		87.4		87.5	75.4	111.2		140.4	149.1		4.2			3.1	5.3				3.7
pH	6 - 9 (2&4)			6.2		6.4		7 695		6.5 792	6.3	6.4	6.4 976	6.4 987	6.4		127			7.4	7.8				7.3
Alkalinity (Total) Chloride	250 (5)			400 704		398 738	+	60	-	651	831	844	910	846	801 862		28			27	30			-	88 22
Ammoniacal Nitrogen				48.9 0.008		1.47		89		75.67	95.92	1.6	145.88	1.6	140.96 0.01		0.52 0.012			0.17	1.81 0.0025				0.13 0.053
Nitrite Nitrate	50 (5)	_	-	0.008		0.01 0.15		0.01 0.125	1	0.01 0.125	0.01	0.01	0.01	0.01 0.125	0.01		0.012		 	0.03	0.0025				0.053 1.07
Sulphate	50 (5) 250 (5)		12.10		13.80		15.10		15.50		18.18	18.45	18.57	19.59	18.78						1.50			14.80	
Sulphide Calcium		_	85.60		85.80		83.60		97.50	1	78.75	79.78	78.91	79.67	74 38		34.80				39.60			33.50	
Potassium			8.26		14.30		18.70		31.80		39.08	34.65	40.54	43.60	43.11		6.99				8.07			6.45	
Magnesium	200(S)		30.90		33.50 378.00		35.00		40.40	1	39.77	36.34	40.75	41.15 0.00	38.99 587.00		5.88 17.10				5.97 18.80			5.29 14.10	
Sodium Biochemical Oxygen Demand	200(5)		216,00	21.0	378.00	23.0	399.00	17.0	361.00	35.0	21.0	21.0	27.0	27.0	32.0		17.10				10.80			14.10	2.5
Chemical Oxygen Demand				10		10		604		656	455	42	10	482	502									=	10
Conductivity Total Oxidisable Nitrogen		_		3110 0.03	-	3200 0.15	+	3420 0.15		3460 0.15	4200 0.15	4236 0.15	4569 0.15	4570 0.15	4586 0.15		0.1		-	0.18	367 0.03				295 1.12
Total Phosphorus				0.89		0.125		0.125		2.47			0.33		0.75										0.125

The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern related) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern related) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern related) 2015 Transitional waters.
 The Cassification of Water (Priority Substances) Framework Directive) (Regulated and Water) (Priority Water Framework Directive) (Regulated Water) (Priority Water Framework Directive) (Regulated Water) (Priority Water Standard *) (Indicated Water) (Priority Water Standard *) (Indicated Water) (Priority Water Standard *) (Indicated Water) (Priority Water Standard *) (Indicated Water) (Priority Water Standard *) (Indicated Water) (Indicated

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EQS), Where the MAC EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basis of acutedrostic.

Nets: COBiouvabile derived us the Metal Biouvabilability Associated Tool (M. MAT) developed by WET FAL. Look at receptor specific associated study the Metal Biouvabilability associated Tool (M. MAT) developed by WET FAL. Look at receptor specific associated study to the Metal Biouvabilability associated Tool (M. MAT) developed by WET FAL. Look at receptor specific associated study to the Metal Biouvabilability associated Tool (M. MAT) developed by WET FAL. Look at receptor specific associatement using the MAT Incol with pill, Cook and Look developed by WET FAL. Look at receptor specific associatement using the MAT Incol with 100 LOOK and Look developed by WET FAL. Look at receptor specific associatement using the MAT Incol with 100 LOOK and Look developed by WET FAL. Look at receptor specific associatement using the MAT Incol with 100 LOOK and Look developed by WET FAL. Look at receptor specific associatement using the MAT Incol with 100 LOOK and Look at receptor specific associated to look with 100 LOOK and Look at Incol with 100 LOOK at Incol with 100 LOOK at Incol with 100 LOOK at Incol with 100 LOOK and Look at Incol with 100 LOOK at Incol with 100 L

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)							BH108														
HEAVY METALS	μg/l		09/04/2018	17/04/2018	27/06/2018	03/07/2018 03/10/2018	17/10/2018	19/10/2018	09/01/2019 22/01/2019	11/04/2019	30/04/2019	05/07/2019	09/07/2019 15/10/2019	24/10/2019	19/02/2020	25/02/2020	27/07/2020	30/07/2020	26/08/2020	06/10/2020	23/11/2020	17/02/2021 1	15/04/2021 02/08/2021
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)			10.00	10.00	10.00			10.00	10.00		10.00	10.00		10.00			10.00	3.62	10.00	3.98	2.63	2.93 6.18
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l			1.000	1.000	1.000			1.000	1.000		1.000	1.000		1.000			1.000	0.025	1.000	0.025	0.025	0.025 0.025
Chromium (diss.filt)	50 (5)			2.500	2.500	2.500			2.500	0.250		0.250	0.250		0.250			2.500	0.125	0.125	0.125	0.125	0.125 0.125
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94		2.500	2.500	2.500	1		2.500	2.500		2.500	2.500		2.500			2.500	0.545	2.500	0.453	0.395	0.331 0.500
Iron (diss.) Mercury (diss.filt)				187	330	293			891	711		620	1190		454			20	799	20	1636	1437	443 1325
	0.07 MAC (182)			0.0025	0.0025	0.0025			0.0025	0.0025		0.0025	0.0025		0.0025			0.0025	0.0025		0.0025		0.0025 0.0025
Manganese (diss.filt)	123 (AA) (*********************************	276.92		843	920	942			1680	1780		1270	1250		1500			2040	2254.862085	2238.83278	1960.854037	2527.764278 2	2620.636428 1836.526674
Molybdenum (diss.filt) Nickel (diss.filt)	70 (8) ?	14.98			2.50	2.50						2.50	2.50		2.50				2.52				2.02 1.89
Nickel (diss.filt) Lead (diss.filt)	4(MAC) (18.2) 1.2(MAC) (18.2) 1.2(MAC) (18.2)	14.98 9.64		2.50					2.50	2.50								2.50		2.50	2.51	2.32	
	1.2****** (AA) (1), 1.3 (AA) (2), 14 (MAC) (1&2)	9.64		10	10	10			10	10		10	10		10			10	0.125	10	0.125	0.125	0.125 0.125
Antimony (diss.filt) Selenium (diss.filt)	10/5)	10								0.50		0.50	0.50		0.50			0.56	0.10	0.10	0.10	0.10	0.10 0.10
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (MAR ACC ACC ACC ACC ACC ACC ACC ACC ACC A	37.15		1.00	1.00	1.00			1.00	1.00		1.00	1.00		1.00			1.00	0.50	1.00	0.50	0.50	0.50 0.50
Iron (Total)	(, (,, (1280	1.00	2.00	789			1.00	1.00		2.00	1.00		2.00			2.00	0.30	2.00			2791 265272 2570 663888
Manganese (Total) Chromium III (diss filt)			861			888															2100.627681	2551.976827 2	2694.025596 1901.922693
	4.7 (AA) (1) 95th%ile (32)									0.25		0.25	0.25		0.25			0.13	0.13	0.13	0.13	0.13	0.13 0.13
Chromium VI (diss.fit)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)									0.025		0.025	0.025		0.025			0.025	0.025	0.025	0.025	0.025	0.025 0.025
Aluminium (diss.filt)				20	20	20			20	20		20	20		20			20	20	20	20	20	20 20
Vanadium (diss.filt)																			0.125	2.000	0.125	0.125	0.125 0.125
Phenols	ug/l																						
Phenols, Total	7.7 (1&2) 46 (95th%ile) (1&2)		22.50			22.50	1	22.50	22.50		22.50		22.50	22.50		22.50				220.00			22.50 22.50
Speciated TPH Aliphatics	ug/l																						
Aliphatics EC CS-C6	15000 (7)		10			40	1	40		+	40		40	40		- 10	10		40	40			40 22
EC>06-08	15000 (7)		10 12.5		-	10	1	10		+	10 12.5		10	10 12.5		10	10		10	10	-		10 10 12.5 12.5
FC>C8-C10	300 (7)		7.5		-	7.5	1	7.5		+	7.5		7.5	7.5		7.5	7.5		7.5	7.5	+		7.5 7.5
EC>C10-C12	300 (7)		5		-	5	1			+				5			1-4			7.3	+		/.3
EC>C12-C16	300 (7)		5			5		5	Š		5		Š	5		5							
EC>C16-C21			5			5		5	5		5		5	5		420							
EC>C21-C35			5			5		5	5		5		5	5		440							
EC>C35-C44			5			5		5	5		5		5	5		5							
Aromatics FC CS-C7																							
	10 (7)		1			1		1			1		1	1		1	1		1	1	1		1 1
EC>C7-C8	700 (7)		2.5			2.5		2.5			2.5		2.5	2.5		2.5	2.5		2.5	2.5			2.5 2.5
EC>C8-C10 EC>C10-C12	300 (7) 90 (7)		25			25		25			25			5									
EC>C10-C12 EC>C12-C16	90 (7)		5			5		5	5		5		5 10	5		5							
EC>C16-C21	90 (7)		5			5		5	5		5			5		5							
EC>C21-C35	90 (7)		5			5	-	5 10	5	_	5		20	5		5							
Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)		0.50			0.50		0.50	0.50		0.50		0.50	0.50		0.50	0.50		0.50	0.50			0.50 0.50
Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		0.50			0.50		0.50	0.50		0.50		0.50	0.50		0.50	0.50		0.50	0.50			
Ethylbenzene	300 (8)		0.50			0.50		0.50	0.50		0.50		0.50	0.50		0.50	0.50		0.50	0.50			0.50 0.50 0.50 0.50
p/m-Xylene			1.00 0.50			1.00		1.00	1.00		1.00		1.00	1.00 0.50		1.00	1.00		1.00	1.00			1.00 1.00
o-Xylene			0.50			0.50		0.50	0.50		0.50		0.50	0.50		0.50	0.50		0.50	0.50			0.50 0.50
Sum of detected Xylenes	500 (8)												1.50	1.50		1.50	1.50		1.50	1.50			1.50 1.50
Polyaromatic Hydrocabons	μη/l 2 (AA) (1 &2) 130 (MAC 1&2)																						
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)		0.004			0.004 0.002		0.004	0.004 0.002		0.004		0.004	0.019		0.009				0.100			0.337 0.971 0.088
Acenaphthylene (aq)	•		0.002			0.002		0.002	0.002		0.002		0.002	0.003						0.008			
Acenaphthene (aq) Fluorene (aq)			0.002			0.002		0.002	0.002		0.002		0.002	0.005		0.001				0.007			0.039 0.050 0.049 0.010
Phenanthrene (aq)			0.003			0.003		0.003	0.003		0.003		0.003	0.008		0.003				0.044			0.148 0.052
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)		0.003			0.003		0.003	0.003		0.003		0.003	0.003		0.003				0.003			0.014 0.034
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)		0.001			0.001		0.001	0.001		0.002		0.001	0.003		0.001				0.018			0.014 0.034 0.028 0.010
Pyrene (aq)	• • • • • • • • • • • • • • • • • • • •		0.001			0.001		0.001	0.001		0.002		0.001	0.004		0.001				0.012			0.017 0.003
Benzo(a)anthracene (aq)			0.001			0.001	1	0.001	0.001		0.003		0.001	0.001		0.001				0.003			0.004 0.004
Chrysene (aq)	1		0.001			0.001		0.001	0.001		0.003		0.001	0.001		0.001				0.004	-		0.008 0.002
Benzo(b)fluoranthene (aq)	0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.00017 (AA) (18.2) 0.00017 (AA) (18.2) MAC (0.27 (1) 0.027 (2))		0.001			0.001	1	0.001		-	0.006		0.001	0.001		0.001				0.003	\leftarrow		0.004 0.003 0.004 0.001
Benzo(k)fluoranthene (aq)	U.U17 (MAC) (1&2)		0.001				1	0.001	0.019	-	0.006			0.001		0.001				0.003	\leftarrow		0.004 0.001 0.005 0.003
Benzo(a)pyrene (aq)	0.00017 (MM) (1 & 2) MAC (0.27 (1) 0.027 (2))		0.001			0.001	+	0.001	0.019	+	0.006		0.001	0.001		0.001				0.006			0.005 0.003 0.004 0.002
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a h)anthracene (an)	1		0.001			0.002	 	0.001	0.004	1	0.005		0.001	0.004		0.001				0.006	+		0.004 0.002
Benzo(q,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		0.002			0.005	1	0.002	0.004	+	0.006		0.002	0.004		0.002				0.002			0.002 0.002
INORGANICS	mg/I								0.004					2.303						- 304			0.001
Dissolved Organic Carbon	119/1		3.7			5.3	4.2		5.1		4.1		4.5	4.4		4.1	4.9		6	5.3	4.1	3.9	3.9
pH	6 - 9 (2&4)		7.5			7.4	7.5		7.4		7.6		7.7	7.4		7.5	7.3		7.4	7.2	7.4	7.8	7.3 7.4
Alkalinity (Total)			89			121	118		104	1	114		116	118		132	144		138	127	140	137	137 135
Chloride	250 (5)		22			24	29		23		29		30	31		28	26		29	27	30	24	13 28
Ammoniacal Nitrogen			0.09			0.84	0.34		0.13		0.2		0.2	0.73		0.41	0.63		0.89	0.55	0.64	0.95	0.42 1.05
Nitrite	1		0.04			0.0025	0.005		0.011		0.01		0.01	0.01		0.01	0.01		0.01	0.01	0.01	0.01	0.01 0.01
Nitrate	50 (5) 250 (5)		0.88			0.03	0.03		0.14		0.15		0.125	1.01		0.125	0.15		0.125	0.125	0.125	0.125	0.125 0.125
Sulphate	250 (5)			15.20	5.11	10.60	1		13.70	14.80		5.27	6.78		6.40			4.27	2.48	4.54	5.66	13.08	8.34 1.61
Sulphide							1						l	-									
Calcium Potassium				33.90 7.00	39.20 7.75	40.40 6.48	1		37.00 5.75	41.00 7.37		38.60 7.51	40.00 5.70		44.30 6.26			48.50 7.90	43.18 7.71	41.50 6.40	46.10 5.92	45.18 5.83	44.19 42.25 7.13 8.12
Potassium Magnesium	+			7.00 5.30	7.75 6.30	6.48	1		5.75	7.37 6.43		7.51 6.12	5.70	-	6.26 7.85			7.90	7.21 6.71	6.40	5.92	5.83 7.58	7.13 8.12 7.23 6.54
Sodium	200(5)			14.40	16.50	16.50	1		15.70	17.30		17.60	16.40	-	7.85 16.60			18.40	17.46	17.06	16.37	16.33	7.23 6.54 16.36 16.57
Joquii	**************************************		1.5	14.40	10.30	2.5	15		1 5	21.20	1.5	17.00	25	1.5	10.00	25	1.5	10.70	1.5	1.0	15.57	1.0	2.5 2.5
Riochemical Oxygen Demand																							
Biochemical Oxygen Demand Chemical Oxygen Demand			10			10	10		10		10		10	10		10	10		10	10	10	10	10 10
Chemical Oxygen Demand			301			336	334		317		350		338	327		10 360	10 379		363	340	360	368	377 356
Chemical Oxygen Demand Conductivity Total Oxidisable Nitrogen			301 0.92			10 336 0.03	334 0.03		317 0.15		350 0.15		338 0.15	327 1.01		0.15	10 379 0.15		363 0.15	340 0.15	360 0.15	368 0.15	377 356 0.15 0.15
Chemical Oxygen Demand Conductivity			301			336	334		317		350		338	327		10 360 0.15 0.125	379		363	340	360	368	377 356

The Water Framework Directive Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Substances) (Substances)
MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basion's careteadricy.

Note: CQBicovalable derived via the Metal Bicovaliability Association Tool (M BAT) developed by WTDTA. Look at receptor specific association to the Metal Bicovaliability of the Control o

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)								BH111														
HEAVY METALS	μg/l		02/11/2021	31/01/2022	11/04/2019 16/04/2019	28/05/2019	31/05/2019	05/07/2019	23/07/2019 15/10/201	9 29/10/2019	19/02/2020	04/03/2020	30/09/2020	19/04/2021	03/08/2021	03/11/2021	31/01/2022	19/07/2017	24/10/2017	12/01/2018	21/02/2018	17/04/2018	18/04/2018 27/0	06/2018 04/07/201
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		3.14	3.70	10.00		10.00	10.00	10.00		10.00		10.00	0.33	10.00	0.00		12.50	10.00	10.00		10.00	1	10.00
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		0.025	0.025	1.000		1.000	1.000	1.000		1.000		1.000	0.025	1.000			5.000	1.000	1.000		1.000		1.000
Chromium (diss.filt) Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94	0.125	0.125 0.125	2.500		2.500 2.500	2.500	2.500		2.500		2.500 2.500	0.125 1.477	2.500 2.500			12.500 10.000	2.500	2.500 2.500		2.500 5.510		2.500 2.500
Iron (diss.)	1 (AA) bloavallable (1) (2) 1000 (ΔΔ) (18-2)	34.94	982	1675	20		2.500	20	2.900		20		2.500	20	2.300	20	20	50	2.500	2.300		20		20
Mercury (diss.filt)	0.07 MAC (1&2)		0.0025				0.0025																	-
Manganese (diss.filt)	123 (AA) (*********************************	276.92	1935.391109	2116.328869	11		15	5	5		5		5	5	15.24709841	5	5	50	11	5		5		19
Molybdenum (diss.filt) Nickel (diss.filt)	70 (8) ? 4 ^{(1000 (1000 (1)} (AA) (1), 8.6 (AA) (2), 34 (MAC) (182)	14.98	1 95	1.93	2.50		2.50	2.50	2.50		2.50		370	1.40	2.50			13.50	2.50	2.50		2.50		2.50
Lead (diss.filt)	1.2 (MA) (1), 1.3 (MA) (2), 34 (MAC) (182)	9.64	0.125	0.125	2.30	-	2.50	2.30	10	_	2.30		2.30	0.125	10			12.5	2.50	2.50		2.30		10
Antimony (diss.fit)	5 (5)																							
Antimony (diss.fit) Selenium (diss.fit) Zinc (diss.fit)	10(5) 10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (MER ACM 2)	10 37.15	0.10	0.10									0.00	0.69										
Zinc (diss.filt) Iron (Total)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC	37.15	0.50	0.50 4092.545918	3.37		2.03	1.00	1.00		1.00		2.09	1.95	2.45 1320.828869	1401 557055	003.0030003	10.00	2.09 18900	1.00	3923 054252	2.10	3620	1.00
Manganese (Total) Chromium III (diss filt)				2158.771322											53.83751106				971.0917874		197.456829		203	74
	4.7 (AA) (1) 95th%ile (32)		0.13	0.13																				
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.025	0.025																				
Aluminium (diss.filt) Vanadium (diss.filt)			0.125	20	20		20	20	20		20		20	0.125	20	20	20	50	50	20		20		20
Phenols	ug/I		0.125	0.125										0.125										
Phenois Total	7.7 (1&2) 46 (95th%ile) (1&2)		22.50	22.50																				$\overline{}$
Speciated TPH	ug/l																							
Aliphatics EC CS-C6	15000 (7)		I			1	1													_				
			10 12.5	10 12.5		+	1	l	 	+	+	1	 	1	1		 		1	 	 	 	 	-+-
EC>C8-C10	15000 (7) 300 (7)	1	7.5	7.5		1	1			1	1	1	1	1	1	1	1	l	1	1	1	1		
EC>C10-C12	300 (7)																							
EC>C12-C16	300 (7)		1			1					1													
EC>C16-C21 FC>C21-C35		+	1	-		+	1	-		+	1	1	-	1	1	1	1	-	1	-	-	-	-	
EC>C35-C44		+	+			+	1			+	+	+	 	1	+				1	!	!	1		-+
Aromatics FC CS-C7																								
	10 (7)		1	1		1								1										
EC>C7-C8 EC>C8-C10	700 (7) 300 (7)	_	2.5	2.5		+	1				1	 	-	1	 	1			1	.		-		+
FC>C10-C12	90 (7)		1	1		+	1	l		1	1	1	1	1	1	 	 	-	1	!	-	1	 	
EC>C12-C16	90 (7)		+			+	1	l		+	+	+	t	1	+			l	1	t	t	t	 	-+
EC>C16-C21	90 (7)																							
EC>C21-C35	90 (7) 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)		0.50	1 17		1	1													_				
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)	+	0.50	0.50		+	1	 		+	+	1	 	1	1	-	-	 	1	+	 	 	 	-+-
Ethylbenzene	300 (8)		0.50	0.50		+	1	l		+	+	+	t	1	+			l	1	t	t	t	 	-+
p/m-Xylene			1.00	1.00																				
o-Xylene	500 (8)		0.50	0.50																				
Sum of detected Xylenes Polyaromatic Hydrocabons	500 (8) µg/l		1.50	1.50						_	1	1												_
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)		0.971	0.022		1																		
Acenaphthylene (aq)			0.088	0.005																				
Acenaphthene (aq)			0.050	0.005		1	1				1			1					1					
Fluorene (aq) Phenanthrene (aq)		+	0.010	0.003		+	1	 		+	+	1	 	1	1	-	-	 	1	+	 	 	 	-+-
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)	+	0.052	0.008		+	1	l		+	+	+	 	1	+				1	 	 	 	 	-
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)		0.010	0.003																				
Pyrene (aq)	-		0.003	0.002																				
Benzo(a)anthracene (aq)		+	0.004	0.001		+	1	-	 	+	1	1	-	1	1	1	1	-	1	-	-	-	-	
Chrysene (aq) Benzo(b)fluoranthene (aq)	0.017 (MAC) (182)		0.002	0.001		+	1	l		+	+	+	t	1	+			l	1	t	t	t	 	-+
Benzo(k)fluoranthene (aq)	0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.0017 (MAC) (18.2) 0.00017 (AA) (18.2) MAC (0.27 (1) 0.027 (2))		0.001	0.001																				
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))		0.003	0.001		1	1				1			1					1					
Indeno(1,2,3-cd)pyrene (aq)	<u> </u>	+	0.002	0.001		+	1			+	+	-	-	-	-	-			-	!	-	-		-+-
Dibenzo(a,h)anthracene (aq) Benzo(g,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)			0.002		+	1	l		1	1	1	1	1	1	 	 	-	1	!	-	1	 	
INORGANICS	mg/l																							
Dissolved Organic Carbon	6 0 000 0	_	4.4	4.9	1.6	1.3			23	1.7	1	1.9		1.4		5.1	2.2		1.3				0.5	1
pH Alkalinity (Total)	6 - 9 (2&4)	+	7.4	7.3 127	6.5	6.7 36	1	-	6.8 49	6.7	1	6.7	6.3 49	6.3 37	6.3	7.2 113	6.4 48	6.6	6.4	-	-	-	6.7	6.8 73
Chloride	250 (5)	+	135 26	26	43 32	3b 39	1		49 32	33	+	26	41	27	29	113	20	31	30	!	!	 	30	30
Ammoniacal Nitrogen			1.26	0.68	0.2 0.01	0.2			0.2	0.2 0.01		0.2	0.2	0.2	0.2	0.2	0.2	0.27	0.18	i e	0.02	i e	0.95	30 0.02 0.0025
Nitrite			0.01	0.01		0.01			0.01	0.01		0.01	0.01	0.01	0.01	0.01	0.01	0.0025	0.0025				0.0025	0.0025
Nitrate Sulphoto	50 (5) 250 (5)	+	0.125 3.61	0.125	14.10	10.1	15.80	45.50	8.2 17.20	10.17	18.30	9.55	12.25 22.29	13.58	9.89	2.3	9.36 21.98	7.8 14.60	7.84 18.00	19.90	-	17.60	7.82	6.55 18.50
Sulphate Sulphide	250 (5)		5.61	8.91	14.10	+	15.80	16.50	17.20	1	18.30	1	22.29	22.60	25.13	21.67	21.98	14.60	18.00	19.90	-	17.60		3.30
Calcium			45.64	42.04	36.30	+	37.30	34.50	37.70	+	39.00	+	36.78	38.83	40.67	47.99	37.17	35.90	36.50	32.70	t	32.90	1 3	37.10
Potassium			6.89	5.52	7.90		6.76	6.67	8.51		9.21		8.34	6.57	6.44	8.51	6.94	2.55	3.09	1.84		1.79		2.24
Magnesium			6.75	7.12	5.19		6.16	5.07	5.18		4.54		4.63	5.29	5.70	4.33	4.77	6.59	7.65	7.11		6.87		7.27
Sodium Biashowical Occasion Domond	200(5)	+	16.74	16.29	15.50	1	16.60	14.80	16.00		14.90	15	14.63			13.90	12.45	20.30	23.90	23.30	4.5	21.10		21.60
Biochemical Oxygen Demand Chemical Oxygen Demand	+	+	1.5	1.5 10	1.5	1.5 10	1	l	1.5	1.5	+	1.5	1.5 10	1.5	2.5	1.5	1.5		2.5 20	 	1.5 20	 	1.5 10	2.5 10
Conductivity			352	344	346	361			334	348		353	331	342	343	326	308	356	341	i e	336	i e	338	10 356 6.55
Total Oxidisable Nitrogen			0.15	0.15	10	10.1			8.2	10.17		9.55	12.25	13.58	9.89	2.3	9.36	7.8	7.84				7.82	6.55
Total Phosphorus	1		0.125	0.125	0.125	0.125	1		0.125	0.125	1	0.125	0.125	0.125	0.125	0.125	0.125	L	0.125				0.125	0.125

The Water Famework Directive (Priority Substances and Cassification) Regulations (Northern related) 2015 Freshwater.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EQS, Where the MAC EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of acutedout.

Note: 1000 care label femmed via the Metall Biovaribability Assessment Tool (M-BAT) developed by WFDTAL Look at recognitor specific assessment using the M-BAT (and the Metall Biovaribability Assessment Tool (M-BAT) developed by WFDTAL Look at recognitor specific assessment using the M-BAT (and the Metall Biovaribability assessment Tool (M-BAT) developed by WFDTAL Look at recognitor specific assessment using the M-BAT (and the Metall Biovaribability assessment Tool (M-BAT) developed by WFDTAL Look at recognitor specific assessment using the M-BAT tool winsp (Look Card Look of the Self-Are Metall Biovaribability assessment tool (M-BAT) developed by WFDTAL Look at recognitor specific assessment using the M-BAT tool winsp (Look Card Look of the Self-Are Metall Biovaribability assessment using the M-BAT tool winsp (Look Card Look of the Self-Are M-BAT tool winsp (Look Card Look of the Self-Are M-BAT tool winsp (Look Card Look of the Self-Are M-BAT tool winsp (Look Card Look of the Self-Are M-BAT tool W-BAT LOOK of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Tool Card Tool Card Tool Card To

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)		BH112														ВН	1113		
HEAVY METALS Arsenic (diss.filt)	μg/I 50 (AA) (1) 25 (AA (2)	03/10/2018 10.00	18/10/2018 09/01/2019 10.00	10/01/2019 11/04/2019	17/04/2019	05/07/2019 23/07/2019	15/10/2019 29/10/2019	19/02/2020 04/03/2020 10.00	06/10/2020	19/04/2021	03/08/2021	03/11/2021 31	01/2022 10/	11/04/2019 10.00	04/07/2019	05/07/2019	15/10/2019	31/10/2019	17/02/2020	19/02/2020	14/10/2020
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l	1.000	1.000	1.000		1,000	1,000	1.000	1,000	0.025	1.000	0.00		1,000		1.000	1.000			1.000	1.000
Chromium (diss.filt)	50 (5)	2.500	2.500			1.000		1.000	2.500	0.125	2.500			1.390		2.900	2.000			0.870	0.810
Copper (diss.filt)	1 (AA) bigavailable (see Note 1) (1) (see Note 4) (2)	34.94 2.500	2.500	6.980		2.500	2.500	2.500	2.500	1.416	2.500			2.500		19.800	22.800			13.800	8.481
Iron (diss.)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (182)	20	20	20		20	20	126	20	20	20	20	20	14500		48600				51100	12758
Mercury (diss.filt)	0.07 MAC (1&2)													0.0025			0.0025			0.0025	
Manganese (diss.filt) Molybdenum (diss.filt)	123 (AA) (*********************************	276.92 5	55	5		17	19	13	5	5	5	5	5	758		1230	1310			976	673.0834755
Nickel (diss.filt)	(AA) (1) 8 6 (AA) (2) 24 (MAC) (182)	14.98 2.50	2.50	2.50		2.50	2.50	2.50	2.50	1.46	2.50			42.30		48.00	42.20			40.80	43.33
Lead (diss.filt)	1.2(Me now of (AA) (1), 1.3 (AA) (2), 14 (MAC) (1&2)	9.64 10	10	10		10	10	10	10	0.125	10			10		10	10			10	10
Antimony (diss.filt)	5 (5)																				
Selenium (diss.filt) Zinc (diss.filt)	10(5)	10								0.28				0.50		0.50	0.50			0.50	0.22
	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (MA) (2)	37.15 1.00	9.28	1.00		1.00	1.00	1.00	1.00	1.20	1.00	1410.205578 131		4.43		8.70	6.81			10.30	4.35
Iron (Total)							-	-	_			1410.205578 131 75.4797348 79					_				
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)				_			+	-	130./444423	74.80030363	/3.4/92346 /9.	1930009	0.70	-	1.45	1.00			0.44	0.81
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)													0.025		0.100				0.025	
Aluminium (diss.filt)		20	20	20		20	20	20	20	20	20	20	20	20		45	20			20	20 0.323
Vanadium (diss.filt)										0.125											0.323
Phenois Discoula Total	ug/l 7.7 (1&2) 46 (95th%ile) (1&2)								22.50					2.50	470.00			470.00	22.50		270.00
Phenois, Total Speciated TPH	7.7 (162) 46 (95thrale) (162) ug/l								2250					2.30	470.00			170.00	22.50		270.00
Speciated TPH Aliphatics EC CS-06																					
EC CS-06	15000 (7)								10					10	10			10	10		10 12.5
EC>06-08 EC>08-010	15000 (7)								12.5					12.5	12.5			12.5	12.5		12.5
EC>C8-C10 EC>C10-C12	300 (7) 300 (7)				+		 	+	7.5	1	1 1			7.5	7.5			7.5	7.5		7.5
FC>C12-C16	300 (7)				+			1	1	1	1			30	70		1	5	5		+
EC>C12-C16 EC>C16-C21	www [1]				1				1	1			I	5	5		1	5	5		
FCxC21-C35														30	10			5	5		
EC>C35-C44														5	5			5	5		$\overline{}$
Aromatics EC CS-C7	10 (7)						-	-							3.9		_	1	2.6		1
FC>C7-C8	700 (7)				_				2.5					2.5	2.5			2.5	2.5		2.5
EC>C8-C10	300 (7)													25	2.3			4.3			
EC>C10-C12	90 (7)													30	70			5	5		
EC>C12-C16	90 (7)													130	150			5	5		
EC>C16-C21	90 (7)													170	250			5	5		
EC>C21-C35	90 (7) 10 (AA) MAC 50 (1) 8 (AA) MAC 50 (2)				_			+	0.50	-				30	30 3.90			5 0.50	5 2.56		1.34
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)							+	0.50					0.50	0.50			0.50	0.50		0.50
Ethylbenzene	300 (8)								0.50					0.50	0.50			0.50	0.50 1.00		0.50
p/m-Xylene									1.00					1.00	1.00			1.00	1.00		1.00
o-Xylene Sum of detected Xylenes	500 (8)								0.50					0.50	0.50			0.50 1.50	0.50		0.50 1.00 0.50 1.50
Polyaromatic Hydrocabons	ug/I								1.50						1.50			1.50	1.50		1.50
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)								0.076					.468	0.107			5.786	0.014		0.042
Acenaphthylene (aq)									0.002					1064	0.048			0.037	0.053		0.002
Acenaphthene (aq)	•								800.0					1119	0.078			0.664			0.001
Fluorene (ag) Phenanthrene (ag)					_			+	0.010	-				1255	0.059			0.198	0.005		0.006
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)				+ +		—	1	0.003	1	+ 1			1061	0.003		1	0.007	0.003		0.003
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)								0.062					.099	0.040			0.081	0.013		0.018
Pyrene (aq)	-								0.021					111	0.038			0.060	0.012		0.013
Benzo(a)anthracene (aq)	-				+		 	+	0.002	1	1 1			182	0.007			0.009			0.003
Chrysene (aq) Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)				+			1	0.007	1	1			L167 L209	0.017 0.025		1	0.012	0.004		0.004
Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2)				1 - 1				0.002	1				1213	0.021		1	0.007	0.002		0.001
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))								0.003					1502	0.012			0.006	0.002		0.003
Indeno(1,2,3-cd)pyrene (aq)									0.004	1				.399	0.001			0.005	0.001		0.002
Dibenzo(a,h)anthracene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)				_				0.002	1				1532	0.006 0.001			0.002 0.005	0.002		0.003 0.002 0.002 0.002
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2)								0.003					(301	0.001			0.005	0.001		0.002
Dissolved Organic Carbon			0.5	1.1	0.5	1	1	1.4	3.5	1.3		0.5	1.5	34.2	35.1			42.2	16		70
pH	6 - 9 (2&4)		7.1	6.7	6.9	7	6.8	6.6	6.5	6.5	6.6	6.7	6.6	6.9	6.7			6.8	7.1		6.8
Alkalinity (Total)			80	66	62	73	64	59	64	57	70		61	.018	969			922	967		946
Chloride Ammoniacal Nitrogen	250 (5)		28 0.02	26 0.02	31 0.2	35 0.2	34 0.2	32 0.2	32 0.2	34 0.2	35		31 0.2	427	119			164 91.19	134 80.39		165 82.62
Ammoniacai Nitrogen Nitrite			0.002	0.0025	0.2	0.01	0.2	0.01	0.01	0.01	2.07 0.01	0.2		7.01	0.01		_	0.01	0.01		0.01
Nitrate	50 (5)		7.19	6.06	5.9	7.3	7.73		8.53	9.76	9.74			0.15	0.125			0.125			0.125
Sulphate	50 (5) 250 (5)	18.60	19.90	20.00		17.60	18.40	20.40	18.09	17.24	17.87	17.85	7.29	4.86		21.50	4.47			4.25	4.66
Sulphide																			_		
Calcium		39.40	31.00	31.60		38.40	36.00	34.30	37.54	36.54	43.89		8.68	164.00 59.70		134.00	116.00			133.00	132.29 64.65
Potassium Magnesium		2.29 7.35	2.42 6.29	1.97 6.61	+	2.45 7.27	2.65 7.06	2.14 7.12	2.76	2.73 7.49	3.45 8.48	3.68 8.00	2.89 7.66	59.70 47.80	 	69.60 43.30	65.00 42.70			63.70 43.20	64.65 44.89
Sodium	200(5)	21.60	21.60	22.30	+ +	21.30	22.80	23.20	21.31	21.06	21.28	21.22	9.50	143.00	+ +	123.00	141.00	1	1	131.00	137.10
Biochemical Oxygen Demand	. 47		2.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5		1.5	5.3	7.8			4.5	4.3		6.1 47
Chemical Oxygen Demand			10	10	10	10	10	10	10	10	10			27	153			44	95		47
Conductivity			362	331	328	377	356 7.73	346 7.45	386	329	388 9.74			390	2370			2240	2230		2340 0.15 0.125
Total Oxidisable Nitrogen Total Phosphorus			7.19 0.125	6.06 0.125	5.9 0.125	7.3	7.73	7.45	8.53 0.125	9.76 0.125	9.74	8.68	8.84	0.15	0.15		-	0.15 0.125	0.15		0.15
i utai rhosphorus			0.123	0.123	U.1Z5	0.125	0.125	0.125	0.125	U.125	0.125	0.125	1.120	1125	0.125			0.125	0.125		0.123

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Instand) 2015 Freshwater.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the bases of acutedoxor's.

Note: 4 Total control stable derived via the Metal Biovariability Assessment Total (M-BAT) developed by WFDTAC Look at recordor specific assessment using the M-BAT (Seveloped by WFDTAC Look at recordor specific assessment using the M-BAT (Seveloped by WFDTAC Look at recordor specific assessment using the M-BAT (Seveloped by WFDTAC Look at recordor specific assessment using the M-BAT (Seveloped by WFDTAC Look at recordor specific assessment using the M-BAT (Seveloped by WFDTAC Look at recordor specific assessment using the M-BAT tool with pLOC and Look of looks of least feet of least specific assessment using the M-BAT tool with pLOC and Looks of least sevel took of least sevel least sevel least sevel least tool with plot of least sevel processors from the least blood selection by least tool with plot of least sevel processors from the least blood selection by least tool with plot least sevel l

Sample Point /	TSV	MBAT PNEC															BH114									
Determinands	131	(ug/l)															BULLY									
HEAVY METALS Arsenic (diss.filt)	μα/I 50 (AA) (1) 25 (AA (2)	26/04/200 23.20	1 20/07/2021 24.30	26/10/2021 19.98	01/08/2017 12.50	17/10/2017 12.50	09/01/2018	12/01/2018 10.00	11/04/2018	17/04/2018 10.00	26/06/2018	27/06/2018 01/10/ 10.00	/2018 03/10/2018 10.00	07/01/2019	09/01/2019 10.00	08/04/2019	11/04/2019 10.00	02/07/2019	05/07/2019 10.00	15/10/2019 10.00	21/10/2019	23/10/2019	18/02/2020	19/02/2020	13/10/2020 10.00	20/04/2021 0.24
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l	0.025	0.025	0.025	5.000	5.000		1.000		1.000		1.000	1.000		1.000		1.000		1.000	1.000				1.000	1.000	0.025
Chromium (diss.filt) Copper (diss.filt)	50 (5) 1 (AA) bioavailable (see Nois 1) (1) (see Nois 4) (2) 1000 (AA) (18.2)	0.882 34.94 0.125	0.812	0.755	12.500	10.000		2.500 2.500		2.500		2.500 2.500	2.500 2.500		2.500 2.500		0.250 2.500		0.250 2.500	0.250 2.500				0.250 2.500	0.125 2.500	0.125 1.304
Iron (diss.) Mercury (diss.filt)	1000 (AA) (1&2) 0.07 MAC (1&2)	34800	35300	32200	50	50		20		20		20	20		20		20		20	20				20	20	20
Manganese (diss.filt)	123 (AA) (*********************************		0.0025 8 678.0266013		5	5		5		5		5	5		0.0025		0.0025		0.0025	0.0025				0.0025	0.0025	0.0025
Molybdenum (diss.filt)	70 (8) ? 4************************************	14.98 39.10	27.50	20 50	12.50	12.50		2.50		2.50		2.50	2.50		2.50		2.50		2.50	2.50				2.50	2.50	0.91
Lead (diss.fit)	1.2(MAC) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64 0.125	0.025	0.125	12.5	12.5		10		10		10	10		10		10		10	10				10	10	0.125
Antimony (diss.fit) Selenium (diss.fit)	5 (5)	10 0.25	0.10	0.10					-					1			0.50		0.50	0.50				0.50	0.10	0.28
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (1000 1000 12)	37.15 1.84	2.65	1.44	10.00	10.00		2.49		1.00		2.43	24.00		15.10		4.99		3.83	4.10				4.46	3.29	4.38
Iron (Total) Manganese (Total) Chromium III (diss.fit)			51 725.2533077		58900 473	1040 13000	1403.7518 15.70603622		5370 52		12800 119				-											3149.363411 25.73336911
Chromium III (diss.filt) Chromium VI (diss.filt)	4.7 (AA) (1) 95th?úle (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th?úle) (2)	0.88 0.025															0.25		0.25	0.25				0.25	0.13	0.13 0.178
Aluminium (diss.filt)	0.4 (AA) (1), 0.0 (AA) (2), 02 (3001/00) (2)	20	20	20	50	50		20		20		20	20		20		20		20	20				20	20	20
Vanadium (diss.fit) Phenols	ug/l	0.367	0.337	0.316																					0.125	0.125
Phenois, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2)	22.50	22.50	330.00										22.50		22.50		22.50				22.50	22.50		22.50	22.50
Aliphatics EC CS-C6	ug/l																									
EC CS-C6 EC>C6-C8	15000 (7) 15000 (7)	10 12.5	10 12.5	10 12.5										10 12.5		10 12.5		10 12.5				10 12.5	10 12.5		10 12.5	10 12.5
EC>C8-C10	300 (7)	7.5	7.5	7.5										7.5		7.5		7.5				7.5	7.5		7.5	7.5
EC>C10-C12 EC>C12-C16	300 (7) 300 (7)													5	-	5 5		5				5	5			
FC>C16-C21	550 (1)													5		5		5				5	5			
EC>C21-C35 EC>C35-C44			-		-									5		5		5				5	5			
Aromatics FC CS-C7	10 (7)	2.47												1		1		1								
EC>C7-C8	700 (7)	2.47	2.5	2.5										2.5	-	2.5		2.5				2.5	2.5		2.5	2.5
EC>C8-C10 EC>C10-C12	300 (7) 90 (7)													25 5		25 5		ς.				5	ς			
EC>C12-C16	90 (7)													5		5		5				5	5			
EC>C16-C21 EC>C21-C35	90 (7)													5	-	5		5				5	5			
Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)	2.47														0.50		0.50				0.50	0.50		0.50	0.50
Toluene Ethylbenzene	74 (AA) 98th%ile (380) (1), 74 (AÁ) 95th%ile (370) (2)	0.50	0.50	0.50 0.50	-									-		0.50		0.50				0.50	0.50		0.50	0.50 0.50
p/m-Xylene		1.00		1.00												1.00		1.00 0.50				1.00	1.00		1.00	1.00
o-Xylene Sum of detected Xylenes	500 (8)		1.50												-	0.50		1.50					0.50 1.50		1.50	0.50 1.50
Polyaromatic Hydrocabons Naphthalene (aq)	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)	1 126	0.024	0.163										0.004		0.004		0.004				0.002	0.004		0.008	0.566
Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)	0.066	0.003	0.002										0.002		0.016		0.002				0.019	0.048		0.005	0.033
Acenaphthene (aq) Fluorene (aq)	:	0.039	0.047	0.105										0.001		0.001 0.002		0.001				0.003	0.002		0.003	0.020 0.036
Phenanthrene (aq)	0.1 (AA & MAC) (1 & 2)	0.030	0.020	0.027										0.009		0.003		0.003				0.025	0.003		0.023	0.079
Anthracene (aq) Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)	0.003	0.013	0.015					-					0.003		0.003 0.001		0.003				0.003	0.003	-	0.003	0.018 0.046
Pyrene (aq)		0.009 0.001		0.010										0.004 0.001		0.001 0.001		0.001				0.003	0.001		0.005	0.031 0.063
Benzo(a)anthracene (aq) Chrysene (aq)	:	0.002	0.002	0.002										0.001		0.001		0.001				0.001	0.001		0.001	0.083
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.00017 (AA) (18.2) MAC (0.227 (1) 0.027 (2))	0.001	0.002	0.002	— —			— T	— T					+ -	+	0.001 0.001		0.001	-			0.001	0.001		0.001	0.054 0.081
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	0.001	0.001	0.001										0.001		0.001		0.001				0.001	0.001		0.001	0.156
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq)		0.001	0.003	0.002				-					_	0.004	+ -	0.001 0.002 0.001		0.001	1			0.001	0.001	-	0.001	0.059 0.047 0.053
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2) mg/l	0.001	0.002 0.001	0.001										0.004		0.001		0.002 0.001				0.001	0.002 0.001		0.002 0.001	0.053
INORGANICS Dissolved Organic Carbon		27.1		33.1		2	2.2		2		1.6	2.		1.8		2		2.2			1.9		2.3		4.8	4.2
pH Alkalinity (Total)	6 - 9 (2&4)	6.7	6.8 816	6.7 825	6.2	6.4 27	6.7 29		6.9 44		6.7 50	6.0		7 41	1	6.8 36		6.6 50			6.7 41		6.9 35		6.4 46	6.4 45
Chloride	250 (5)	85	90	125	16	18	22		21		23	15)	19		23		20			20		24		22	19
Ammoniacal Nitrogen Nitrite		1.69 0.01	83.62 0.01	73.5 0.01	0.02 0.0025	0.05 0.0025	0.02 0.0025		0.02		0.02	0.0		0.02 0.0025		0.2 0.01		0.2			0.2 0.01		0.2 0.01	-	0.2 0.01	0.2
Nitrate	50 (5) 250 (5)	0.125 7.64	0.125		0.94	0.99 52.00	1.12	42.70	1.04	39.90	1.16	68.20	8	1.57	45.10	2.15	44.00	1.82	62.50	58.90	1.46		2.16	53.80	1.19	1.51
Sulphate Sulphide	250 (5)				52.40					39.90			55.90	+		l		l	62.50	58.90				53.80	60.00	43.69
Calcium Potassium		123.67 63.01		127.41 53.76	27.20	28.70 2.81		28.10 2.15		31.90 2.35		43.00 3.00	41.00 2.64		33.20 2.29		32.00 2.07		40.80 2.58	36.80 2.50				36.80 2.56	39.67	34.49 2.49
Magnesium		40.42	36.20	37.93	4.91	3.37		3.23		3.71		5.26	5.21		4.25		4.00		5.08	4.52				4.27	4.73	3.78
Sodium Biochemical Oxygen Demand	200(5)	97.51 9.4	89.19 8.1	111.49 9.0	11.30	12.00 2.5		14.90	2.5	14.50	15	15.70	14.00	15	12.50	15	14.20	15	14.10	14.00	15		15	14.90	14.43	13.36 2.5
Chemical Oxygen Demand		80	45	48		20			10		10	10	í	10		10		10			10		10		10	10 277
Conductivity Total Oxidisable Nitrogen		2076 0.15	0.15	0.15	259 0.94	256 0.99	249 1.12		275 1.04		339 1.16	32 0.8		279 1.57	+	280 2.15		332 1.82			291 1.46		284 2.16		315 1.19	1.51
Total Phosphorus		0.125	0.125	0.125		0.125	0.125		0.125		0.125	0.13		0.125		0.125		0.125			0.125		0.125		0.32	0.125

- The Water Famework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Famework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Famework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Transitional waters.
 The Commission (Priority Water Famework Directive)
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of autentional.

Note: 100000x18bit derived six the Metal Bisovalidability Assument Tool (M-BAT) developed by WETFAL Look at receptor specific assessment using the M-BAT of Color and Color and Color derived a 15th orderived to a 15th PMECESTANIE http://www.websa.org/introvence/fores takes restal floavisibility assessment tool on boat.

Note 2 COSDISIONALISE derived six the Metal Bisovalidability Assessment Tool (M-BAT) developed by WETFAL Look at receptor specific assessment using the M-BAT bod with psi / Color Color look on the 25th Assessment Tool (M-BAT) developed by WETFAL Look at receptor specific assessment using the M-BAT bod with psi / Color Color look on the 25th Assessment to Super Machine Assessment using the M-BAT bod with psi / Color Color look on the 25th Assessment to see the Machine Assessment using the M-BAT bod with psi / Color Color look on the 25th Assessment to see the Machine Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color

Sample Point /	TSV	MBAT PNEC															BH119					
Determinands	150	(ug/l)															8H119					
HEAVY METALS	μg/l	04/08/20	1 25/10/2021	24/01/2022 25/01/2022	03/08/2017	25/10/2017 11/	/01/2018	12/01/2018 12/04	/2018 17/04/2018	27/06/2018	02/10/2018	03/10/2018	09/01/2019 17/0	/2019 11/04	15/04/2	019 05/07/2019	16/07/2019	15/10/2019	28/10/2019	19/02/2020	27/02/2020	01/07/2020 27/07/2020
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)																					
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l	0.025 0.125	0.025 0.125	0.025	5.000 12.500	1.000		1.000 2.500	1.000 5.810	1.000 2.500		1.000 2.500	1.000 2.500	1.0	0	1.000		1.000		1.000		
Chromium (diss.filt) Copper (diss.filt)		34.94 1.041		0.922	10.000	2.500		28.400	2.500	6.470		28.200	49.700	2.5	D	5.690		35.300	1	12.900		
Iron (diss.)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (1&2)	63	20	20	31000	5780		43200	14700	19200		54300	44000	354		12800		51100	1	34400		
Mercury (diss.filt)	0.07 MAC (182)	0.0025		0.0025																		
Manganese (diss.filt) Molyhdenum (diss.filt)	123 (AA) (*********************************	276.92 14.395262	28 10.50123293	5	23500	21200		20700	17000	15500		15100	8710	593)	19800		13800		10300		
Nirkel (diss.riit)	ACCUSED (AA) (1) 8 6 (AA) (2) 24 (MAC) (12.2)	14.98 0.82	1 14	0.69	12.50	18.10	_	27.30	27.10	33.80	-	26.90	26.40	25/	n	22,20		24.00		20.20		
Lead (diss.fit)	1.2(MAC) (1), 0.3 (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64 0.125		0.125	12.5	10		10	10	10		10	10	11		10		10		10		
Antimony (diss.fit)	5 (5)																					
Selenium (diss.filt) Zinc (diss.filt)	10(5) 10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (ME NOR 2)	10 0.22 37.15 5.02		0.10 2.70						2.73		6.70	14.80	4.7		4.99		7.10		8.68	-	
Iron (Total)	10.9 (AA) (1) +ABC bloavallable 6.0 (AA) (2) +ABC	37.10 5.02	2417.177612 6	2.70 6034 355043	10.00	2.86	71400	5.99	3.52	2.73 47100	_	6.70	14.80	4.4		4.99		7.10		8.68		$\overline{}$
Manganese (Total) Chromium III (diss fit)		129.11193	7 31.80259319 5	51.70157088	25700		22100	177	200	15500												
	4.7 (AA) (1) 95th%ile (32)	0.13	0.13	0.13																		
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.025	0.025 20	sn sn				30	20		20	20	21		20				30		
Aluminium (diss.filt) Vanadium (diss.filt)		20 0.125	0.125	0.125	30	30		20	20	20	+	20	20			20		20	 	20	-	-
Phenois	ug/l																					
Phenois, Total Speciated TPH Aliphatics EC CS-C6	7.7 (1&2) 46 (95th%ile) (1&2)	22.50	22.50	22.50																		
Speciated TPH	ug/l																					
EC CS-C6	15000 (7)	10	10	10	 	 			-	1	+			_	_			 	 		-	10
FC>06-08	15000 (7)	12.5	12.5	12.5																		12.5
EC>C8-C10 FC>C10-C12	300 (7)	7.5	7.5	7.5																		7.5
EC>C10-C12 EC>C12-C16	300 (7) 300 (7)	 	+		+					+	+				_				+			+
EC>C16-C21	300 (1)																					
EC>C21-C35																						
EC>C35-C44																					\Box	
Aromatics FC CS-C7	10 (7)		1	1			_				-					_						2.32
EC>C7-C8	700 (7)	2.5	2.5	2.5							_											8.05
EC>C8-C10	300 (7)																					
EC>C10-C12 EC>C12-C16	90 (7)																					
EC>C12-C16 EC>C16-C21	90 (7) 90 (7)																					
EC>C21-C35	90 (7)													_				_			 	
Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)	0.50		0.50																		2.32
Toluene	74 (AA) 95th/tille (380) (1), 74 (AA) 95th/tille (370) (2)	0.50	0.50	0.50																	\Box	0.50 4.14
Ethylbenzene p/m-Xvlene	300 (8)	0.50 1.00		0.50 1.00																		4.14
o-Xylene		0.50		0.50																		3.91 0.50
Sum of detected Xvlenes	500 (8)	1.50	1.50	1.50																		3.91
Polyaromatic Hydrocabons	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)																					
Naphthalene (aq) Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)	0.085	0.046	0.049 0.012										_				_				
Acenaphthene (aq)		0.014		0.028																		
Fluorene (aq)	•	0.004	0.018	0.023																		
Phenanthrene (aq)	0.1 (AA & MAC) (1 & 2)	0.030		0.100																		
Anthracene (aq) Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)	0.020	0.007	0.039	1	 	_			1	+	+				-		-	1		-	-
Pyrene (aq)		0.002	0.005	0.017																		
Benzo(a)anthracene (aq)	•	0.005		0.002																		
Chrysene (ag) Renzo(h)filinzanthane (ag)	0.017 (MAC) (182)	0.003		0.003 0.002	+					+	+				_				+			+
Benzo(b)fluoranthene (ag) Benzo(k)fluoranthene (ag)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2)	0.002		0.002	t e		-		_	1	1 1	-+		_	_			t	t		-	-
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	0.003	0.001	0.011																		
Indeno(1,2,3-cd)pyrene (aq)		0.003		0.001																	\Box	
Dibenzo(a,h)anthracene (aq) Benzo(q,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	0.002	0.002	0.006																		
INORGANICS	mg/I	0.002	0.001	0.001																		
Dissolved Organic Carbon			2.1	2.6		23.1			7.4	32.5	19.3		2	1.6	20.9		22.2		22.2		14.1	
pH	6 - 9 (2&4)	6.6		6.5	7		7.3		.9	6.9	6.9			.8	7		7.4		7		6.9	\longrightarrow
Alkalinity (Total) Chloride	250 (5)	57 23	55 21	34 23	62		796 75		86	953 89	766 52	+		1	673 56		728 67	-	771 55		404 47	
Ammoniacal Nitrogen	230 (3)	0.2	0.2		57	65	83		76 1339	97	68			8	75		72		84.45		41.27	
Nitrite		0.01	0.01	0.2 0.01	0.028	0.008	0.013	0.0	339	0.031	0.005			800	0.01		0.01		0.01		0.01	
Nitrate Colebate	50 (5) 250 (5)	1.16		1.81	0.03	0.03	0.03		03	0.03	0.03	7.43	13.40	14	0.15		0.125	12.00	0.125	43.40	0.125	+
Sulphate Sulphide	250 (5)	58.22	69.04	47.50	10.50	10.70		11.20	15.40	10.30	+	7.12	12.40	15.		21.90		12.00	1	13.10	-	-
Calcium		42.08	44.84	32.47	116.00	83.60		98.50	106.00	125.00	1	114.00	99.70	97.	D	92.50		99.70	1	63.20		
Potassium		2.84	2.63	2.03	40.80	39.60		61.80	53.50	69.30		52.30	44.80	53.	0	49.10		56.20		30.10		
Magnesium	200(5)	4.91 14.67		3.69	26.00 57.80	25.20 61.70	-	31.90 79.20	33.40 87.40	38.40 97.40	1	23.90 50.50		26. 65.		28.50 64.60		27.80 61.40	1	15.00 39.30		
Sodium Biochemical Oxygen Demand	200(5)	14.67	15.42	13.16 1.5	57.80		4.5		.5 87.40	97.40	6.7	50.50		65.	53	64.60	5.2	61.40	5.1	39.30	3.2	
Chemical Oxygen Demand		10	10	10		89	40	4	13	40	54			6	38		37		38		21	
Conductivity	·	327		272	1578	1679	1883	18	107 03	2169	1636		1	70	1540		1600		1690		1050	
Total Oxidisable Nitrogen Total Phosphorus		1.16 0.125	0.77 0.125	1.81 0.125	0.03	0.03	0.03	0.	US	0.03 0.125	0.03		0	15	0.15		0.15	-	0.15 0.125		0.15	
Total Pilospilotos	· ·	0.125	0.123	v.ss3		0.125	U.143	0.1		0.125	0.125		1 0		0.12		0.125		0.125		0.125	

The Water Framework Directive Priority Substances and Cassification (Regulations (Northern related) 2015 Freehwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern related) 2015 Freehwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern related) 2015 Freehwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulation (Substances) and Groundwater three-dold values (Water Framework Directive) (Insight and Water) Directive (Priority Substances) (Insight Water Standard * (Indicator Water) (Insight Water Standard * (Indicator Water) (Insight Water Standard * (Indicator Water) (Insight Water Standard * (Indicator Water) (Insight Water Standard * (Indicator Water) (Insight Water Standard * (Indicator Water) (Insight Water Standard * (Indicator Water) (Insight Water Standard * (Indicator Water) (Insight Water Standard * (Indicator Water) (Insight Water Standard * (Indicator Water Standard * (Indicator Water) (Insight Water Standard * (Insight Wat

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EQS), Where the MAC EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basis of aucteroaction.

Note:

Note: - Collisional sable derived via the Metal Biovard sability Assument Tool (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT of Collisional State (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT of Collisional State (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT tool wints (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT tool wints (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT tool wints (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT tool wints (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT tool wints (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT tool wints (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT tool wints (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT tool wints (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT tool wints (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT tool wints (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT tool wints (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT tool wints (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT tool wints (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT tool wints (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT tool wints (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT tool wints (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT tool wints (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT tool wints (M-BAT) developed by WTDTAL Look at receptor specific assument using the M-BAT tool wints (M-BAT) developed by WTDTAL Look at receptor speci

	•									I																
Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																				BH120				
HEAVY METALS	μg/l		24/08/2020	7/10/2020 26	5/11/2020 16/02/20	1 12/04/2021	26/07/2021	04/11/2021	01/02/2022	03/08/2017	25/10/2017	1/01/2018	12/01/2018	12/04/2018	17/04/2018	27/06/2018	02/10/2018	03/10/2018	09/01/2019	17/01/2019	11/04/2019	15/04/2019	05/07/2019	16/07/2019 15/10/20	19 28/10/201	19 19/02/2020
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)			10.00	4.49	16.38	10.00	0.00		12.50	10.00		10.00		10.00	10.00		10.00	10.00		10.00		10.00	10.00		10.00
Cadmium (diss.fit)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l			1.000 2.500		0.025				5.000 12.500	1.000		1.000 2.500		1.000 2.500	1.000 2.500		1.000 2.500	1.000 2.500		1.000		1.000	1.000		1.000
Chromium (diss.filt) Copper (diss.filt)	1 (AA) bigavailable (see Note 1) (1) (see Note 4) (9)	34.94		2.500	0.125	0.125 0.125	38.212			10.000	2.500		2.500		2.500	2.500		2.500	2.500		2.500		2.500	2.500		2.500
Iron (diss.)	1 (AA) bioavailable (see Note 1) (1) [see Note 4] (2) 1000 (AA) (18.2)	34.54		4205	28400	23300	36400	44600	34500	50	20		20		20	20		20	20		20		20	20		20
Mercury (diss.filt)	0.07 MAC (1&2)				0.0025																					
Manganese (diss.filt) Molybdenum (diss.filt)	123 (AA) (*********************************	276.92		13500	15600	14100	15600	9820	9730	419	380		18		137	335		358	188		81		182	219		48
Nickel (diss.filt)	(AA) (1) 8 6 (AA) (2) 24 (MAC) (18.2)	14.98		24.43	10.41	9.43	20.00			12.50	2.50		2.50		2.50	2.50		2.50	2.50		2.50		2.50	2.50		2.50
Lead (diss.filt)	1.2(1000 TOOM 3) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64		10	0.125					12.5	10		10		10	10		10	10		10		10	10	_	10
Antimony (diss.filt)	5 (5)																									
Selenium (diss.fit) Zinc (diss.fit)	10(5) 10.9 (AA) (1) +ABC bloavallable 6.8 (AA) (2) +ABC (MATRON A)	10 37.15		3.72	0.10 1.15	0.10 1.84	5.01			10.00	20.20		10.30		4.61	10.60		44.00	16.90		7.44		14.10	12.20	-	40.00
Iron (Total)	10.5 (AA) (1) TADO DIGUNANDO CO (AA) (2) TADO	57.15		3.72	34100	40000		53800	60100		17100	28600	10.30	102000	4.01	14800		14.80	16.90		7,44		14.10	12.20		10.90
Manganese (Total) Chromium III (diss filt)					16200		16500	10000	10100	541	651.7442427	572.593899		1220		497										
Chromium III (diss.filt) Chromium VI (diss.filt)	4.7 (AA) (1) 95th%ile (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)					0.13																				
Aluminium (diss.filt)	3.4 (AA) (1), 0.0 (AA) (2), 32 (9001/800) (2)			20	0.025 20	0.025	20	20	20	50	50		20		20	20		20	20		20		20	20	-	20
Vanadium (diss.filt)				-	0.125		1 -			1													1	1 10	\neg	
Phenols	Ug/l																									
Phenois, Total Speciated TPH Aliphatics EC C5-C6	7.7 (1&2) 46 (95th%ile) (1&2)	1		220.00			1	_																	_	
Aliphatics																									$\overline{}$	_
EC CS-06	15000 (7)		10	10																						
EC>C6-C8 FC>C8-C10	15000 (7) 300 (7)		12.5 7.5	12.5 7.5																						
EC>C10-C12	300 (7)		7.5	7.5		_																				+
EC>C12-C16	300 (7)																									_
EC>C16-C21																										
EC>C21-C35 EC>C35-C44																									-	
																										+
Aromatics EC CS-C7	10 (7)		1	1																						
EC>C7-C8 EC>C8-C10	700 (7) 300 (7)		2.5	2.5																						
FC>C10-C12	90 (7)																								-	-
EC>C12-C16	90 (7)																								_	-
EC>C16-C21	90 (7)																									
EC>C21-C35	90 (7) 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 98th/life (380) (1), 74 (AA) 98th/life (370) (2)		1.72	1.61		_																				+
Benzene Toluene Ethylbenzene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		0.50	0.50																						+
Ethylbenzene	300 (8)		0.50	0.50																						
p/m-Xylene			1.00 0.50	0.50																					-	
o-Xylene Sum of detected Xylenes	500 (8)		1.50	1.50																					-	-
Polyaromatic Hydrocabons	μg/i 2 (AA) (1 &2) 130 (MAC 1&2)																									
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)			0.664																						
Acenaphthylene (aq) Acenaphthene (aq)				4.383																					-	-
Fluorene (aq)	-			1.024																						
Phenanthrene (aq)	0.1 (AA & MAC) (1 & 2)			0.460																						
Anthracene (aq) Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)			0.020		_																				_
Pyrene (aq)	-			0.077																					_	_
Benzo(a)anthracene (aq)	•			0.009																						
Chrysene (aq) Benzo(b)fluoranthene (aq)	0.017 (MAC) (182)	1	1	0.013 0.009		-	+	1	1	1													+	 	+	+
Benzo(k)fluoranthene (aq)	0.017 (MAC) (182) 0.017 (MAC) (182) 0.017 (MA) (182) 0.00017 (AA) (182) MAC (0.27 (1) 0.027 (2))	1	1 -	0.009			1	t —	1	1	-	-+	-										t		-	+
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))			0.019																						
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq)	•	-		0.016		_	1	1	1	1					-								-		$-\!$	
Berizo(g,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	+		0.007			+	-	1	1		_							 				 	 	+	+
INORGANICS	mg/l																									
Dissolved Organic Carbon	6 - 9 (2&4)			22.8	9.9		69	11 6.7	18.9		2.5	5.2		5.2		5.2	1.6 6.7			3.8		3.3		1.9	1.4	
pH Alkalinity (Total)	6-9 (284)	+		6.9	6.9 336	6.9 333	6.9	6.7 375	6.7 532	6.5	6.8	7.1		6.8 67	-	6.8 76	6.7			6.8 69		7 66	-	7.2	6.9 70	
Chloride	250 (5)	1		37	25	35	43	30	39	25	28	29		23	—	25	26			30		27	1	30	31	
Ammoniacal Nitrogen				77.38	21.03	28.33	71.31	34.95	55.54	0.05	0.67	8.18		0.04		0.08	0.46			1.9		0.2		0.95	0.2	
Nitrite Nitrate	FO/F)	-		0.01	0.01	0.01 0.125	0.01	0.01 0.125	0.01 0.125	0.009 14.5	0.026 14.7	0.0025		0.008 15		0.014 14.7	0.012 14.9			0.006 14.6		0.01 12.4	-	0.02 2.19	0.01 12.38	
Sulphate	50 (5) 250 (5)	+		9.04	24.40	24.72	10.79	18.49	15.81	14.20	13.10	13.6	14.80	10	17.00	17.40	14.9	14.70	15.00	14.6	13.80	12.4	14.60	2.19		15.30
Sulphide																										
Calcium				89.54		54.45		77.20	87.18	42.40 4.09	36.30		43.90		42.30	48.60		41.50	42.90		40.50		46.10	46.20		45.00
Potassium Magnesium	+	+		48.23 21.31	25.95 12.72	13.85	51.03 25.07	25.30 11.70	41.10 18.43	4.09 12.40	4.42 9.40		4.13 11.10		3.07 12.70	3.87 14.10		3.80 15.10	3.63 12.20		3.00 11.50		3.96 12.50	3.78 12.70		3.63 11.90
Sodium	200(5)			47.37	27.88	28.02		26.00	37.98		9.16		12.70		11.50	12.70		10.80	11.60		11.10		12.50	13.10		12.50
Biochemical Oxygen Demand				3.5	4.0		2.5	4.4			2.6	2.5		4.5		2.5	4.4			2.5				1.0	1.5	
Chemical Oxygen Demand Conductivity		+	-	26 1530	10 858		29 1522	10	1304	200	48 399	10		10 380		10	10			10		10	-	10 406	10 420	
Total Oxidisable Nitrogen		+		0.15		0.15 0.125			0.15	14.5	14.7	13.8		15		14.7	14.9			14.6		12.4	 	2.21	12.38	+
Total Phosphorus				0.125	0.125	0.125	0.125	0.125	0.125		0.125	0.6		1.97		0.65	0.125			0.7		0.61		0.125	0.31	

The Water Framework Directive (Proofly Substances and Classification) Regulations (Northern Instant) 2015 Freshwater.
 The Water Framework Directive (Proofly Substances and Classification) Regulations (Northern Instant) 2015 Freshwater.
 The Classification (Proofly Substances and Classification) Regulations (Northern Instant) 2015 Transitional waters.
 The Consumbative Transition (Proofly Substantia) 2015 Transitional waters.
 The Consumbative Transition (Proofly Substantia) 2015 Transitional water (Proofly Substantia) 2015 Transitional w

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EQS). Where the MAC EQS are marked as "not applicable", the AA EQS values are considered protective against short term pollution peaks in continuous discharges since they are significantly lower than the values derivated in the basic of acutections, and the solid acutections of the solid acutections of the solid acutections of the solid acutections of the solid acutections of the solid acutections of the solid acutections of the solid acutections of the solid acutections of the solid acutections of the solid acutections of the solid acutections of the solid acutections of the solid acutections of the solid acutections of the solid acutections of the solid acutections of the solid acutections of the solid acutection of the solid acutections of the sol

Note: Collocurabilité demed via the Metal Biosvaliability Associament Tool (M. BAT) developed by WFDTAE. Look at mospitor specific assessment using the Mr. Section of the Collocuration of the Colloc

Sample Point /	TSV	MBAT PNEC													BH121								
Determinands	139	(ug/l)													DHIZI								
HEAVY METALS	μg/l	27/02/2020	29/09/2020	12/04/2021	26/07/2021	04/11/2021	01/02/2022	17/10/2017	09/01/2018 1	2/01/2018 11/04/2	018 17/04/2018	08/04/2019	11/04/2019	02/07/2019 05/07/201	15/10/2019	21/10/2019 23/10/2019	18/02/2020	19/02/2020	08/10/2020	20/04/2021	04/08/2021	25/10/2021	24/01/2022
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		10.00	0.22	10.00	0.00		1.87		10.00	10.00		10.00	10.00	10.00			10.00	10.00	0.66	0.62	0.74	0.95
Cadmium (diss.fit) Chromium (diss.fit)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l		1.000 2.500	0.025	1.000 2.500			0.025 3.190		1.000 2.500	1.000 2.500		1.000 0.250	1.000 0.250	0.250			0.250	1.000 0.125	0.328 0.125	0.297 0.125	0.274	0.199
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94	2.500	3.115	2.500			0.125		2.500	16.900		2.500	2.500	2.500			2.500	2.500	0.992	0.500	0.516	0.661
Iron (diss.)	1000 (AA) (1&2)		20	20	20	20	20	15400		102	21600		964	1170	1710			1470	1275	839	766	906	1365
Mercury (diss.filt)	0.07 MAĆ (18.2) 123 (AA) (^{468 r0091})	070.00	97.44	92.87	121.37	157.92	16.44	0.0025 2930		0.0025 2540	0.0025 6410		0.0025 638	0.0025	0.0025			0.0025 1150	0.0025 982.331259	0.0025	0.0025	0.0025	0.0025 1099,476626
Manganese (diss.filt) Molybdenum (diss.filt)	70 (8) ?	276.92	97.44	9287	121.3/	157.92	16.44	2930		2540	6410	_	638	//4	669			1150	982.331259	1360.272294	1026.791828	1004.954513	1099.476626
Nickel (diss.filt)	4 (MAC) (1), 8.6 (AA) (2), 34 (MAC) (182)	14.98	2.50	1.47	2.50			44.20		11.30	26.60		19.20	21.40	19.50			20.60	18.42	19.88	17.40	16.63	12.64
Lead (diss.filt)	1.2(MAC) (1AA) (1), 1.3 (AA) (2), 14 (MAC) (1&2)	9.64	10	0.125	10			0.125		10	10		10	10	10			10	10	0.125	0.125	0.125	0.125
Antimony (diss.filt) Selenium (diss.filt)	5 (5) 10(5)	10		0.10				2.06					0.50	0.50	0.50			0.50	0.10	0.10	0.10	0.10	0.10
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (100 HOUR 2)	37.15	11.12	19.82	37.40			0.50		10.50	21.90		6.42	8.47	6.19			7.09	6.75	6.04	5.77	5.14	3.58
Iron (Total)				12600 317.20	9988.21 304.70	6368.20 282.24	10327.23 183.20	113000 3380	34800 2733.347153	4260 6350										1143.406136		1057.390789 988.4093032	
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)			0.13	304.70	282.24	183.20	3380	2/33.34/153	6350		-	0.03	0.25	0.25			0.25	0.13	1400.477337 0.13	1107.993396 0.13	988.4093032	
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)			0.025									0.025	0.025	0.025			0.025	0.025	0.025	0.025	0.025	0.025
Aluminium (diss.filt) Vanadium (diss.filt)			20	20 0.125	20	20	20	50 0.303		20	20		20	20	20			20	20 0.125	20 0.125	20 0.125	20 0.125	20 0.125
Vanadium (diss.filt) Phenols	ug/I			0.125				0.303									_		0.125	0.125	U.125	0.125	0.125
Phenols, Total	7.7 (1&2) 46 (95th%ile) (1&2)								22.50	22.5		22.50		22.50		22.50	22.50		22.50	22.50	22.50	22.50	22.50
Speciated TPH Aliphatics	ug/I																						
Aliphatics EC CS-C6	15000 (7)		1						10	10		10	 	10	+		10	1	10	10	10	10	10
EC>C6-C8	15000 (7)								12.5	12.5		12.5		12.5			12.5		12.5	12.5	12.5	12.5	12.5
EC>C8-C10	300 (7)								7.5	7.5		7.5		7.5			7.5		7.5	7.5	7.5	7.5	7.5
EC>C10-C12 EC>C12-C16	300 (7) 300 (7)								5	5		5		5		5	5						
FC>C16-C21	300 (7)								5	5		5		5	_	5	5				+		
EC>C21-C35									5	5		5		5		5	5						
EC>C35-C44									5	5		5		5		5	5				$\overline{}$		
Aromatics FC CS-C7	10 (7)								1	1		1		1	_		1		1	1		- 1	- 1
EC>C7-C8	700 (7)								2.5	2.5		2.5		2.5			2.5		2.5	2.5	2.5	2.5	2.5
EC>C8-C10 EC>C10-C12	300 (7)								25	25		25 5									$\overline{}$		
EC>C10-C12 EC>C12-C16	90 (7)								5	5		5		5		5	5						
EC>C16-C21	90 (7)								5	5		5		5	_	5	5				+		
EC>C21-C35	90 (7)								5	5		5		5		5	5						
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%le (380) (1), 74 (AA) 95th%le (370) (2)											0.50		0.50			0.50		0.50	0.50	0.50	0.50	0.50
I oluene Ethylbenzene	74 (AA) 95t715t8 (380) (1), 74 (AA) 95t715t8 (370) (2)											0.50		0.50			0.50		0.50	0.50	0.50 0.50	0.50	0.50
p/m-Xylene												1.00		1.00			1.00		1.00	1.00	1.00	1.00	1.00
o-Xylene	500 (8)											0.50		0.50			0.50		0.50	0.50	0.50	0.50	0.50
Sum of detected Xylenes Polyaromatic Hydrocabons	μg/I													1.50			1.50		1.50	1.50	1.50	1.50	1.50
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)								0.004	0.08		0.004		0.004		0.147	0.004		0.048	0.182	4.037	0.004	0.026
Acenaphthylene (aq)									0.002	0.00		0.002		0.002		0.005			0.004		0.598		
Acenaphthene (aq) Fluorene (aq)	· ·								0.001	0.01 0.02		0.001		0.001		0.005	0.002		0.002	0.003	0.372	0.004	0.022
Phenanthrene (aq)	-								0.003	0.02		0.003		0.009		0.016	0.003		0.024	0.003	0.161	0.003	0.019
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)								0.003	0.00		0.003		0.003		0.003	0.003		0.003	0.003	0.105	0.003	0.008
Fluoranthene (aq) Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)								0.001	0.01		0.001		0.001		0.003 0.002	0.001		0.010	0.007	0.007	0.003	0.006
Benzo(a)anthracene (aq)	:		1						0.001	0.01		0.001	l	0.001	1	0.001	0.001	1	0.004	0.001	0.007	0.001	0.001
Chrysene (aq)	•								0.001	0.01		0.001		0.001		0.001	0.001		0.006	0.001	0.006	0.001	0.001
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2)		-						0.001	0.01		0.001		0.002	+	0.001	0.001	-	0.003	0.001	0.002	0.001	0.001
	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))		1						0.001	0.00		0.001	l	0.001	1	0.001	0.001	1	0.004	0.001	0.003		
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)									0.001	0.00		0.001		0.001		0.001	0.001		0.004	0.001	0.002	0.001	0.010 0.001
Dibenzo(a,h)anthracene (aq) Benzo(g,h,i)perviene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		1						0.002	0.00		0.002	1	0.002	-1	0.002 0.001	0.002	1	0.002	0.002	0.002 0.001	0.002	0.008
INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2)								0.001	0.00		0.001		0.001		0.001	0.001		0.003	0.001	0.001	3.001	0.001
Dissolved Organic Carbon	**	1.5	2.2	1.8		1.5	3.1	62.6	16.6	28.5		1.4		1.5		1.4	1.5		2.5	3		1.1	2.2
pH_	6 - 9 (2&4)	6.7	6.5	6.8 75	6.8	6.6	6.7	6.8	7.4	6.6		6.6 103		6.5		6.4	6.8		6.4	6.4 82	6.5	6.5	6.4 120
Alkalinity (Total) Chloride	250 (5)	71	/4 45	/S 29	/1 30	74.4 31	/s 29	1569 19	428 30	663 24	_	103 29	 	/3 28	+	90 29	99 29	+	99 30	27	27	70 28	120 29
Ammoniacal Nitrogen	(-)	0.2	0.2	0.2	0.2	0.2	0.2	132	27	30.8		3.27		0.2		0.44	1.42		0.95	0.66	0.2	0.2	2.84
Nitrite		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.025	0.01		0.01		0.01		0.01	0.01		0.01		0.01	0.01	
Nitrate Sulphate	50 (5) 250 (5)	11.49	16.55 14.60	12.38 13.32	14.05	9.93 13.62	10.42 12.77	0.11 5.31	0.21	23.50	13.60	4.61	24.70	5.51 25.80	25.10	4.95	3.38	27.00	4.98 25.95	6.11 26.55	5.13 23.81	4.92 25.32	3.81 23.55
Sulphide	230 (3)		44.00	23.32	13.93	2002	44.77	3.31	l	4.5.00	15.00		24.70	23.80	25.10			27.00	13.93	20.33	1,001		
Calcium			46.70	42.49	44.25	44.96	40.77	357.00		122.00	128.00		40.90	39.00	42.60			41.60	44.71	41.05	35.81	39.15	49.98
Potassium			4.10 11.80	3.82 11.08	4.30 11.45	3.51 12.64	4.42 10.96	25.80 10.90		12.20 9.57	12.20 14.60	+	5.87 7.77	3.77 7.26	4.52 7.93	 	+	4.89 7.81	4.94 8.18	4.83 7.19	4.09 6.34	4.17 6.88	7.03 9.03
Magnesium Sodium	200(5)		13.35	12.47	13.89	14.21	13.54	18.80		23.80	21.60	1	18.20	7.26 16.80	18.50	 	1	17.40	8.18 17.53	17.01	14.68	16.33	18.19
Biochemical Oxygen Demand		1.5	2.8	2.5	2.5	2.5		18.0	5.2	8.5		2.5		1.5		1.5	1.5		1.5	1.5	2.5	1.5	1.5
Chemical Oxygen Demand		25	10	10	10	10	10	389	106	162		10		10		10	10		10	10	10	10	10
Conductivity Total Oxidisable Nitrogen		403 11.49	420 16.55	382 12.38	402 14.05	405 9.93	379 10.42	2708 0.12	1016 0.23	135	_	399 4.61	-	357 5.51	+	370 4.95	386 3.38	-	404 4.98	376 6.11	333 5.13	334 4.92	418 3.81
Total Choisable Nitrogen Total Phosphorus		0.125	0.125	0.125		0.125	0.125	2.6	0.8	1.42		0.125	l	0.125	1	0.125	0.125	1	0.125	0.125	0.125	0.125	
								_															

The Water Framework Directive (Proutly Sobstances and Classification) Regulations(Riothern Instand) 2015 Freehwater.
 The Water Framework Directive (Proutly Sobstances and Classification) Regulations(Riothern Instand) 2015 Freehwater.
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MAC. This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC. EQS). Where the MAC. EQS are marked as "not applicable", the AA-EQS values are considered protective against short term pollution-peaks in continuous discharges since they are significantly lower than the values derived on the basic of acterbook;

Note: CDDCountiable derived via the Metal Bicavalidatily Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT (Seveloped by WFDTAG. Look at receptor specific assessment using the M-BAT (Seveloped by WFDTAG. Look at receptor specific assessment using the M-BAT (Seveloped by WFDTAG. Look at receptor specific assessment using the M-BAT tool winds July Canad Look of the Metal Biovariability's Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool winds July Canad Look of the Section Feed to Section (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool winds July Canad Look of the Section Feed Look of Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool winds July Canad Look of Look of Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool winds July Canad Look of Look of Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool winds July Canad Look of Look of Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool winds July Canad Look of Look of Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT Tool winds July Canad Look of Look of Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M

The column Column																											
March Marc		TSV															BH122										
March Marc	UENOV MEZALO																										
Mathematical Mat	Arsenic (diss filt)	50 (AA) (1) 25 (AA (2)		20/07/2016	09/08/2016 10/07/2017	11.00	15/08/2017	31/08/2017	17/10/2017	09/01/2018	10,00	11/04/2018	10.00	26/06/2018	10.00	10.0	07/01/2019	10.00	08/04/2019	10,00	02/07/2019	10.00	10.00	21/10/2019	23/10/2019	18/02/2020	10.00
Second Column		0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l	_		 																						1,000
Column C	Chromium (diss.filt)	50/5)				0.357	0.541	0.541	0.301		2.500		2.500					2.500				0.250	0.560				0.250
March Marc	Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) [see Note 4] (2)	34.94			0.522			0.955		2.500		2.500		2.500	2.50)	2.500		5.440			2.500				2.500
Property of the content of the con	Iron (diss.)	1000 (AA) (1&2)				7500			7790		6390					6941	1	8510		4000		4610	5960				
March Marc	Mercury (diss.filt)	0.07 MAC (182)				0.0025			0.0025		0.0025		0.0025		0.0025	0.002	5	0.0025		0.0025		0.0025	0.0025				0.0025
March Marc	Manganese (diss.filt)	123 (AA) (*********)	276.92			2040			3310		2550		2540		2230	2010		2790		2630		2380	2440				2370
Control Cont	Moryodenum (diss.nit)	/U (8) ?	14.00			3.03			3.00		3.50		3.50		3.00	3.00		3.50		3.50		3.50	370				3.00
Second column Second colum	Lead (diss.filt)	1.2(600 TOOM 3) (AA) (1), 0.0 (AA) (2), 34 (MAC) (182)	9.64								2.50						_	2.50		2.50		2.50				-	
Second S	Antimony (diss.fit)					0.223			0.123																		
March Marc	Selenium (diss.filt)	10(5)	10			0.40	0.10	0.10	0.54											0.50		0.50					
Property Property		10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (888 AGE 2)	37.15								4.14		3.41		3.41	3.60		6.92		4.68		5.54	3.37				3.58
Control Cont																											
Control Cont	Manganese (Total)	4.7/44\/\0.00\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				2030			3250	2463.662386		2530		2190						0.35		0.35	0.30				0.25
Application	Chromium VI (dies filt)	2.4 (AA) (1) 0.6 (AA) (2) 22 (06th@ile) (2)	_	_		-	0.035	0.035	_								_	+									
March Marc		211 (111 (111 (111 (111 (111 (111 (111				SO.	0.02.3	0.023	SO		20		20		20	20		20		20		20	20				20
March Marc	Vanadium (diss.filt)			1		0.125	i e	1	0.125									1	i e		i e						
Color Colo	Phenois	ug/l																									
Property Property	Phenois, Total	7.7 (1&2) 46 (95th%ile) (1&2)			1.25					22.50		22.50		22.50			22.50		22.50		22.50				22.50	22.50	
E-CACCO	Speciated TPH	ug/l																									
E-CACCO	FC CS-C6	15000 (7)	_	1		1	10	10	1	10	_	10		10		10	10	+	10		10	-				10	
Section Sect			_		 		12.5	12.5				12.5					12.5		12.5		12.5					12.5	
Cold Sept	EC>C8-C10	300 (7)						7.5		7.5		7.5		7.5		7.5			7.5		7.5					7.5	
CC-CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	EC>C10-C12						5	5				5		5		5	5		5		5				5		
Control	EC>C12-C16	300 (7)					5																		5		
According	EC>C16-C21																										
Application	EC>C21-C35 FC>C35_C44		_	_			5	5								50	5								5		
COCCUT MO() COCCUT			_		 		,			,		- 3		,		,	,		,		,				-	,	
CCCCCCC Section Secti	EC CS-C7						1	1		1		1		1		1	1		1		1					1	
CC-CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	EC>C7-C8	700 (7)					2.5	2.5		2.5		2.5		2.5		2.5	2.5		2.5		2.5					2.5	
ECCLICIA SOTI SOCIAL MAY SOTI (ALLA MAY SOTI) SOCIAL MAY SOTI (ALLA MAY SOTI) SOCIAL MAY SOTI (ALLA MAY SOTI) SOCIAL MAY SOTI (ALLA MAY SOTI) SOCIAL MAY SOTI (ALLA MAY SOTI) SOCIAL MAY SOTI (ALLA MAY SOTI) SOCIAL MAY SOTI (ALLA MAY SOTI) SOCIAL MAY SOTI (ALLA MAY SOTI) SOCIAL MAY SOTI (ALLA MAY SOTI (ALLA MAY SOTI MAY MAY SOTI MAY MAY MAY MAY MAY MAY MAY MAY MAY MAY	EC>C8-C10						25	25		25		25		25		25	25		25								
Column C	EC>C10-C12	90 (7)					5			5		5					5								5		
CCCLICES STATUS WERT COLUMN COL	EC>C12-C16						5	5						5											5		
Beneric Total And Mark (2017) And Mark (20	EC>C16-C21	90 (7)	_	_			5	5						5		10	20		20		900				5		
Toleres		10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)	_		 		0.50			,		- 3		,		,	10		0.50		0.50				-		
Conference Solid Conference Solid Conference	Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)																									
Ordered Section Control Contro	Ethylbenzene	300 (8)					0.50	0.50											0.50		0.50					0.50	
Some of defected Netwers Sov(8)	p/m-Xylene						1.00	1.00											1.00		1.00					1.00	
Polymer (a) 2 (A) (1 & 2) 30 (A) (A) (1 & 2) 30 (A) (A) (1 & 2) 30 (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)		FAR 180					0.50	0.50											0.50								
According (a) Control (b) Control (c)																	_				1.50					1.50	
Accordition (a)		2 (AA) (1 82) 130 (MAC 182)					0.004	0.004		0.004		0.004		0.004		004	0.004		0.004		0.004				0.022	0.004	
Acquainfress (a)	Acenaphthylene (ag)	- () () (0.002	0.002		0.002		0.002		0.002		.002	0.002		0.002		0.002				0.012	0.005	
Present (eq.)	Acenaphthene (aq)						0.001	0.001		0.001		0.001		0.001	(.001	0.001		0.002		0.001				0.009	0.002	
### Activacing (a)		·						0.002		0.002		0.003		0.004							0.003					0.002	
Properties (a) 0.0001 (A2) 0.12 (MAC) 1 0.0001 (A2) 0.12 (MAC) 1 0.0001 (A2) 0.12 (MAC) 1 0.0001 (A2) 0.12 (MAC) 1 0.0001 (A2) 0.12 (MAC) 1 0.0001 (A2) 0.12 (MAC) 1 0.0001 (A2) 0.0001 (A2) 0.12 (MAC) 1 0.0001 (A2) 0.	Phenanthrene (aq)	0.1 (AA 8 MAC) (1.8 %)																									
Printer (s)	Anthracene (aq)		_	_			0.003	0.003		0.003		0.003		0.003		.003	0.003		0.003		0.003				0.003	0.003	
Descriptor Des	Pyrene (an)	0.0005 (AA) (1 0.11 (PIAC 1)					0.001	0.001		0.001		0.001		0.001		001	0.001		0.001		0.001				0.005	0.001	
Chrosen (a) Set (1945) Se	Benzo(a)anthracene (aq)	-					0.001	0.001		0.001		0.001		0.001		.001	0.038		0.001		0.001				0.001	0.001	
Bears () DATE () DATE () DATE () DATE	Chrysene (aq)					1	0.001	0.001		0.001		0.001		0.001		.001	0.038	1	0.001		0.001				0.001	0.001	
		0.017 (MAC) (1&2)	_	-		1			1	0.001						.001	_	1			0.002	-					
		0.017 (MAC) (1&2) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	-	1	 	1			1		1						0.000	1		-		1	\vdash				
Develop(a))perforance (a)	Indeno(1 2 3-orl)ovrene (aq)	0.00017 (MM) (1 & 2) MMC (0.27 (1) 0.027 (2))	+	1	 	1		0.001	1	0.001	1	0.001		0.001		004	0.026	1	0.001	-	0.001	1			0.001	0.001	
NORANICS mg1	Dibenzo(a,h)anthracene (aq)	-		1	1 1	1	0.002	0.002	1	0.002		0.002		0.002		.005	0.016	1	0.002		0.002	†			0.002	0.002	$\overline{}$
NORANICS mg1	Benzo(g,h,i)perylene (aq)						0.001	0.001		0.001		0.001		0.001	Ċ	.005	0.010		0.001		0.001				0.001	0.001	-
## 6-9(246)	INORGANICS																										
Absolute 150				20	23		_					2.6							3					4.1		3.2	
Charde 250 (5) 27 28 24 22 20 19 23 23 20 22 22 21 37 20 20 20 20 20 20 20 2		6 - 9 (2&4)								8.1		6.9						1									
Amortical Wargers 0.27 1.2 5.04 3.78 4.02 3.3 2.71 1.97 1.89 1.76 1.69 2.65 1.94 Note: 9 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 Note: 9 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 Note: 9 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 Note: 9 1.95 1.95 1.95 1.95 1.95 1.95 1.95 Note: 9 1.95 1.95 1.95 1.95 1.95 1.95 Note: 9 1.95 1.95 1.95 1.95 1.95 1.95 Note: 9 1.95 1.95 1.95 1.95 1.95 Note: 9 1.95 1.95 1.95 1.95 1.95 Note: 9 1.95 1.95 1.95 1.95 Note: 9 1.95 1.95 1.95 Note: 9 1.95 1.95 1.95 Note: 9 1.95 1.95 1.95 Note: 9 1.95 1.95 Note: 9 1.95 1.95 Note: 9 1.95 1.95 Note: 9 1.95 1.95 Note: 9 1.95 1.95 Note: 9 1.95	Alkalinity (I otal)	350 (5)		310	330		-	-	251					158		150		-	166		175		_	211			
Note: \$0(5) 15 0.51 0.84 0.75 0.88 0.34 1 1.24 0.97 1.3 1.44 0.05 0.85 0.85 0.85 0.85 0.85 0.85 0.85	Ammoniacal Nitrogen	230 (3)	_	0.37	12		 	 	3.78					273		197		+	1.78		169	-		245		194	
Nitrole \$0(5) 15 0.51 0.94 0.75 0.38 0.34 1 1.24 0.97 1.3 1.48 0.45 0.83			_	0.46	0.13	0.005			0.008	0.0025		0.005		0.007		.007	0.0025	1	0.01		0.01			0.01		0.01	$\overline{}$
Sulphite 250 (5) 5.40 140.00 70.50 54.00 45.00 122.00 84.50 74.80 65.20 26.00 54.00		50 (5)					1		0.76					1		1.24	0.97										
Suphide	Sulphate	250 (5)				85.40					70.50		54.50		49.60	43.5)	122.00		84.50		74.80	85.20				28.60
	Sulphide			1					1																		
			_	-			-	-		-									-		-						
Petensium	Magnerium Magnerium		_	1		14.80	-	-	14.20	-	12.80		9.11		8.97	8.46		10.40	-	8.80	-	8.86 7.00	11.10				8.66 7.04
Magnesium Magn	Sorium	200(5)	+	+		20.80	 	 	20.70		18.20		14.00			14.6		18.20	 	16.90	 		17.80				15.00
SOLUTION SOLUTION				1	1 1		l	1		2.5		2.5		1.5					2.5		1.5			1.5		1.5	
Chemical Oxygen Demand 10<	Chemical Oxygen Demand								20	20		10		10		10			10		10			10		10	
Conductivity 738 809 641 497 483 481 652 583 574 630 545	Conductivity					738			809	641		497				481	652							630		545	
Total Outside National St. 1	Total Oxidisable Nitrogen					0.84												1									
Total Phosphorus 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125			1	1	1 1	1	1	1	0.125	0.125	1	0.125		0.125	1 0	125	0.125	1	0.125	1	0.125	1				0.125	

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Instand) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Instand) 2015 Freshwater.
 The Considerative Directive (Priority Substances and Classification) Regulations (Northern Instand) 2015 Transitional waters.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basis of autentional peaks.

Note: Collocurabilité demed via the Metal Biosvaliability Associament Tool (M. BAT) developed by WFDTAE. Look at mospitor specific assessment using the Mr. Section of the Collocuration of the Colloc

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																	BH201						
HEAVY METALS	μg/l		28/09/2020	20/04/2021	04/08/2021	25/10/2021	24/01/2022	27/06/2018	02/10/2018	03/10/2018	09/01/2019	17/01/2019	11/04/2019	24/04/2019	05/07/2019	16/07/2019	15/10/2019	28/10/2019	19/02/2020	27/02/2020 01/07/20	20 27/07/2020	24/08/2020	12/10/2020	26/11/2020 16/02/2021	12/04/2021
Arsenic (diss.filt) Cadmium (diss.filt)	50 (AA) (1) 25 (AA (2) 0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₂ >200 mg/l		10.00	2.05	3.32	4.43	3.06	10.00		10.00	24.70		25.30 1.000		10.00		24.30		10.00				10.00		13.12 0.025
Chromium (diss.filt)	50 (5)		0.125	0.125	0.125	0.125	0.125	2.500		2.500	2.500		1.490		0.700		0.920		0.250				2.500		0.473
Copper (diss.filt)	1 (AA) bioavailable [see Note 1] (1) [see Note 4] (2) 1000 (AA) (1&2)	34.94	2.500	1.191	0.500	0.644 4511	0.955	2.500 964		2.500	5.190 6980		7.980 7750		2.500 20		2.500 7980		2.500 4530				2.500		0.125 1649
Mercury (diss.filt)	0.07 MAC (1&2)		0.0025	0.0025	0.0025	0.0025	0.0025	204		3320	0.0025		0.0025		0.0025		0.0025		0.0025			+	20		0.0025
Manganese (diss.filt) Molybdenum (diss.filt)	123 (AA) (883 7085 ¹)	276.92	1476.015638	1894.363691	1809.552096	1855.185862	1536.485579	8280		6980	4510		5560		5650		5670		4910				5660		3312.768092
Nickel (diss.filt)	4(MAC) (182)	14.98	2.50	1.80	1.90	2.07	2.06	23.40		19.60	21.20		20.80		20.20		20.70		18.90			+	21.93		18.99
Lead (diss.filt) Antimony (diss.filt)	1.2 ^{(1860 hoss of} (AÁ) (1), 1.3 (AÁ) (2), 14 (MAČ) (182) 5 (5)	9.64	10	0.125	0.125	0.125	0.125	10		10	10		10		10		10		10				10		0.125
Selenium (diss.filt)	10(5)	10	0.10	0.10	0.10	0.10	0.10						0.50		0.50		0.50		0.50				0.00		0.34
Zinc (diss.filt) Iron (Total)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (MA ACC)	37.15	4.38	1.61 3111.536471	1.67 4964.703693	1.77 5591.762327	3.51 3848.381131	1.00 12900		1.00	2.10		1.00		1.00		1.00		1.00				1.00		0.50 21900
Manganese (Total)				1891.220068	1816.535416	1880.918613	1562.102735	8440																	3480 0.47
Chromium III (diss.filt) Chromium VI (diss.filt)	4.7 (AA) (1) 95th*ide (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th*ide) (2)		0.13	0.13	0.13	0.13	0.13						0.75 0.025		0.35 0.025		0.46 0.025		0.25 0.025			+	0.00		0.47
Aluminium (diss.filt)	23 (43) (3) 43 (43) (4)		20	20	20	20	20	20		20	20		20		20		20		20				20		20
Vanadium (diss.filt) Phenols	ug/l		0.125	0.125	0.125	0.125	0.125																0.000		0.312
Phenols, Total	ug/l 7.7 (182) 46 (95th%ile) (182)			22.50	22.50	22.50	22.50					22.50		22.50		22.50		22.50		22.50			320.00		390.00
Speciated TPH Aliphatics EC C5-C6	ug/l																								
	15000 (7)			10	10	10	10					10		10		10		10		10	10	10	10		10
EC>06-08 EC>08-010	15000 (7) 300 (7)			12.5 7.5	12.5	12.5	12.5 7.5					12.5 7.5		12.5 7.5		12.5 7.5		12.5 7.5		12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5		12.5 7.5
EC>C10-C12	300 (7)											50		60		80		5		5					
EC>C12-C16 EC>C16-C21	300 (7)											5		5		20 10		5		5		_			+
EC>C21-C35 EC>C35-C44												5		5 5		10 20		5		5					
Aromatics												5		5		5		5		5		_			+
EC CS-C7	10 (7)			1	1	1	1					1		1		1		1		1	1	1	1		2.237
EC>C7-C8 EC>C8-C10	700 (7) 300 (7)			2.5	2.5	2.5	2.5					2.5 25		2.5 25		2.5		2.5		2.5	2.5	2.5	2.5		2.5
EC>C10-C12	90 (7)											50		60		80		5		5					
EC>C12-C16 EC>C16-C21	90 (7) 90 (7)											120		140		170 130		5		5		+			+
EC>C21-C35	90 (7)											10		20 0.50		20		5		5					
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)			0.50	0.50	0.50	0.50					0.50 0.50		0.50		0.50		0.50		0.50	1.13	0.50	1.56 0.50		2.11 0.50
Ethylbenzene	300 (8)			0.50	0.50	0.50	0.50					0.50		0.50 1.00		0.50		0.50		0.50	0.50	0.50	0.50		0.50 1.00
p/m-Xylene o-Xylene				1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50					1.00 0.50		0.50		1.00 0.50		1.00 0.50		1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50		0.50
Sum of detected Xylenes	500 (8)			1.50	1.50	1.50	1.50									1.50		1.50		1.50	1.50	1.50	1.50		1.50
Polyaromatic Hydrocabons Naphthalene (ag)	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)			0.356	0.081	0.004	0.024					0.098		2.292		0.319		0.993		0.665			6.623		17.876
Acenaphthylene (aq)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			0.056	0.014	0.003	0.004					0.032		0.047		0.041		0.148		0.111			0.481		1.865
Acenaphthene (aq) Fluorene (aq)	:			0.015	0.019	0.009	0.029					0.274 0.324		0.317 0.378		0.387		1.267 1.051		0.719 0.185	_		3.623 0.510		0.008 2.094 1.113
Phenanthrene (aq)	0.1 (AA & MAC) (1 & 2)			0.003	0.026	0.003	0.020					0.069		0.132		0.043		0.106		0.083			0.262		
Anthracene (aq) Fluoranthene (aq)	0.1 (AR & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)			0.001	0.021	0.003	0.008					0.018 0.045		0.012		0.008		0.010 0.054		0.003 0.001		+	0.018 0.123		0.070
Pyrene (aq)				0.001	0.003	0.004 0.001	0.007					0.047 0.288		0.034		0.025 0.002		0.067 0.003		0.014 0.004			0.087 0.009		0.121 0.053 0.002
Benzo(a)anthracene (aq) Chrysene (aq)	<u> </u>			0.001	0.005	0.001	0.008					0.288		0.007		0.003		0.004		0.008			0.017		0.003
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2)			0.001	0.004	0.001	0.006							0.009	$\vdash = $	0.003		0.002		0.001 0.002		1	0.010		0.004
Benzo(k)fluoranthene (aq) Benzo(a)pyrene (aq)	0.0017 (MAC) (1&2) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))			0.001	0.003	0.001	0.019					0.340		0.003		0.001		0.002		0.001			0.022		0.001 0.005 0.021
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq)				0.001	0.003	0.001	0.001					0.048		0.009	$\vdash = $	0.002		0.003 0.002		0.001 0.002		1	0.027 0.002		0.021
Benzo(a h i)perviene (aa)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)			0.002	0.002	0.002	0.008					0.073		0.007		0.002		0.002		0.002			0.002		0.002
INORGANICS Dissolved Organic Carbon	mg/l		2.2	3.7		2.7	2.9		30.7			24.5		25.1		22.5		24.3		20.2			28.3		27.3
pH	6 - 9 (2&4)		7	6.8	6.9	6.9	6.6		7.5			7.4		7.9		8		7.6	L †	7.7			7.1		7.3
Alkalinity (Total) Chloride	250 (5)		159	167 18	166	175	147		728 257			640 195		635 210	$\vdash = $	608 99		632 197		584 166		1	720 225		733
Ammoniacal Nitrogen	250 (5)		1.03	1.11	1.36	1.15	0.83		43.3			53		41		43		53.9		46.41			65.66		212 51.16
Nitrite Nitrate	50 (5)		0.01 2.18	0.01 0.66	0.01 1.54	0.01 1.47	0.01 1.25		0.005			0.0025		0.01	$\vdash = $	0.01 0.125		0.01 0.125		0.01 0.125		1	0.01 0.125		0.01 0.125
Sulphate	50 (5) 250 (5)		67.12	50.07	42.87	41.12	83.77	6.28	0.43	5.56	14.30	0.23	21.40	0.13	22.00	0.123	21.20	V.4£3	19.20	0.125			18.80		12.49
Sulphide Calcium			76.93	74.70	74 12	77.53	81.73	128.00		123.00	97.10		103.00		100.00		94.40		84.80		_	-	95.69		73.29
Potassium			8.27	7.06	7.93	8.04	8.01	36.80		40.70	36.70		36.30		38.30		40.00		37.60				45.08		49.73
Magnesium Sodium	200(5)		6.86 14.94	6.37 15.56	6.65 15.52	6.85 16.12	6.97 14.19	45.60 173.00		50.50 198.00	38.50 130.00		42.80 158.00		40.10 145.00		39.50 157.00		38.10 142.00				50.09 181.00		47.89 175.00
Biochemical Oxygen Demand	200(3)		1.5	1.5	2.5	1.5	1.5	273.00	10.0	1,0.00	230.00	3.9	130.00	2.5	243.00	2.9	137.00	2.8	242.00	3.8			3.8		2.5 77
Chemical Oxygen Demand Conductivity		_	10 523	10 502	10 497	10 507	10 526		85 2160			70 1860		58 1850		52 1780		52 1840		44 1690	_	1	77 2100		77 2080
Total Oxidisable Nitrogen	<u> </u>		2.18	0.66	1.54	1.47	1.25		0.15			0.13		0.15		0.15		0.15		0.15			0.15		0.15
Total Phosphorus			0.125	0.125	0.125	0.125	0.125		0.125			0.125		0.125		0.125		0.125		0.125			0.125		0.125

The Water Framework Directive Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Substances) (Substances)
MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basion's careteadricy.

Note: CQBicovalable derived via the Metal Bicovaliability Association Tool (M BAT) developed by WTDTA. Look at receptor specific association to the Metal Bicovaliability of the Control o

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)						BH202							H203											
HEAVY METALS	μg/l		26/07/2021	04/11/2021	01/02/2022	09/01/2019	23/01/2019 11/04/2019 10.00	24/04/2019	05/07/2019	16/07/2019	23/10/2019	12/01/2018	03/10/2018	20/10/2018	12/04/2021	04/11/2021	01/02/2022	18/07/2017	25/10/2017	11/01/2018	12/01/2018	09/04/2018	17/04/2018	27/06/2018	03/10/2018 16/10/2	018 09/01/2019
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)			13.36	16.30	10.00	10.00		10.00				10.00		1.84	5.98	1.45				10.00				10.00	10.00
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		0.025	0.025	0.025	1.000	1.000		1.000				1.000		0.025	0.025	0.025	5.000	1.000		1.000		1.000	1.000	1.000	1.000
Chromium (diss.filt)	50 (5)		0.498	0.677	0.831	2.500	1.740		0.570				10.500		1.689	3.136	1.400	12.500			2.500		2.500	2.500	2.500	2.500
Copper (diss.fit) Iron (diss.)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (ΔΔ) (18.2)	34.94	0.250	0.501 5876	0.271 62	10.400	10.600		2.500				42.600 63600		0.125	0.125	0.125	10.000 13000	6.810		13.000		18900	2.500 11900	2.500 9270	11.300
Mercury (diss.)	0.07 MAC (182)				0.0025		0.0025		101 0.0025				0.0025		0.0025	0.0025	0.0025	13000	10600		20600		18900	11900	92/0	25500
Manganese (diss.filt)	123 (AA) (868 7008 1)	276.92	3760		2313 334311	4290	1730		2620				2860		2600	2653.763681	2376 504088	2560	5920		4930		5370	2510	2030	5360
	70 (8) 2																									
Nickel (diss.filt)	4100 (AA) (1), 8.6 (AA) (2), 34 (MAC) (1&2)	14.98	20.10	21.22	23.40	6.51	2.50		2.50				145.00		10.38	39.00	7.09	12.50	2.50		2.50		2.50	2.50	2.50	2.50
Lead (diss.filt)	1.2(MAC) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64	0.083	0.125	0.125	10	10		10				10		0.125	0.125	0.125	12.5	10		10		10	10	10	10
Antimony (diss.filt)	5 (5)	10	0.22	0.38	0.35		0.50		0.50						0.46	0.71	0.23									
Selenium (diss.filt) Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (************************************	37.15	1.00	0.50	0.50	3.16	2.69	_	1.00				13.10		3.04	1.63	0.50	10.00	1.00	_	2.19		2.59	5.14	3.00	3.48
Iron (Total)	10.5 (AA) (1) TABO BIOGRAHIADIS C.5 (AA) (L) TABO	57.15	14100	22100	19900	3.10	2.00		1.00				15.10		81000	71400	72500		37500	23400	2.19	29400	2.39	15800	2.05	3.46
Manganese (Total)			3920	3580											2970	2778.708758		2570	6210	4910		5400		2480		\neg
Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)		0.50	0.68	0.70		0.87		0.29						1.69	3.14	1.40									
Chromium VI (diss.fit)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.025	0.025	0.128		0.025		0.025						0.025	0.025	0.025									
Aluminium (diss.filt) Vanadium (diss.filt)		+	20 0 347	0.472	20	20	20	+	20	-	-	-	107	-	0.439	20 1.455	20 0.276	50	50	-	20	-	20	20	20	20
Phenois	uq/l		0.547	0.472	0.610										0.439	1.433	0.276		_							
Phenois Total	7.7 (1&2) 46 (95th%ile) (1&2)		200.00	22.50	440.00			22.50		22.50	22.50	22.50			270.00	560.00	280.00									$\overline{}$
Speciated TDH	ug/l										130															
Aliphatics EC CS-C6																										
EC CS-C6 EC>C6-C8	15000 (7)		10	10	10			10	1	10	10			10	10	10	10									-
EC>C6-C8 FC>C8-C10	15000 (7) 300 (7)	+	12.5	12.5	12.5 7.5	-	-	12.5	1	12.5	12.5	-		12.5	12.5	12.5	12.5 7.5			-	-	-	 	 		\rightarrow
EC>C10-C12	300 (7)	1	7-3	7.5	/.3	 	 	10	1	7.5	7.3	 		160	7.5	7.3	7.3	1		 	 	-	1	l		-
EC>C12-C16	300 (7)							5		20	5			5												-
EC>C16-C21								5		20	5			5												
EC>C21-C35 EC>C35-C44								5		40	5			5												
								5		10	5			5												
Aromatics FC CS-C7	10 (7)	-	2.755	5 517	1			1	-	1	- 1			- 1	2 207	5.044	- 1									
EC>C7-C8	700 (7)		2.753	2.5	2.5			2.5		2.5	2.5			2.5		13.245	2.5									-
EC>C8-C10	300 (7)			2.3				25		2	25			25	20.302	13.143	1.3									-
EC>C10-C12	90 (7)							10		80	5			160												
EC>C12-C16	90 (7)							30		120	5			260												
EC>C16-C21 EC>C21-C35	90 (7)							70 30		170	5			200 70												
ES-C21-C35	90 (7) 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)		2.66	4.96	0.50			30 0.50		0.50	5 0.50	2.90		70	2 90	3.71	153									$-\!\!-\!\!-\!\!-$
Benzene Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)	-	0.50	0.50	0.50			0.50	-	0.50	0.50	0.50			0.50	1.34	0.50									
Ethylbenzene	300 (8)		0.50	2.62	1.72			0.50		0.50	0.50	4.10			0.50	2.77	0.50									-
p/m-Xylene			1.00	1.00	1.00			1.00 0.50		1.00	1.00	6.80			8.30	6.26	1.00									
o-Xylene			0.50	0.50	0.50			0.50		0.50	0.50	4.30			1.71	2.87	0.50									
Sum of detected Xylenes Polyaromatic Hydrocabons	500 (8)		1.50	1.50	1.50					1.50					10.01	9.14	1.50									
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)		0.350	8.623				0.228		0.029	0.162				1 710	1 900	1 122									
Acenaphthylene (aq)	(AA) (1 M2) 130 (130 142)			1.346				0.018		0.013	0.007				0.544		0.140									-
Acenaphthene (aq)			3.165	4.941				0.127		0.100	0.086				0.004	0.472	0.375									\neg
Fluorene (aq)	-			0.693				0.109		0.054	0.069				0.059	0.247	0.186									
Phenanthrene (aq)	0.1 (AA & MAC) (1 & 2)		0.056	0.102				0.214		0.062	0.119				1.066	0.174	0.203									
Anthracene (aq) Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)		0.037	0.080				0.011		0.003	0.011				0.653	0.080	0.016									$-\!\!-\!\!-\!\!-$
Pyrene (aq)	0.0003 (MM) (I & 2) 0.12 (MMC I)	1	0.024	0.036	t			0.082	1	0.022	0.036				0.792	0.141	0.053					l	t	l		\rightarrow
Benzo(a)anthracene (aq)			0.001	0.015				0.028		0.003	0.083				0.015	0.011	0.008									-
Chrysene (aq)	•		0.001	0.006				0.038		0.005	0.083				0.022	0.053	0.010									
Benzo(b)fluoranthene (aq)	0.017 (MAC) (182) 0.017 (MAC) (182)	-	0.002	0.001		-	 	0.065	1	0.005		-		-	0.020	0.013	0.007			-	-		-			
Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	+	0.001	0.001	 	-	-	0.031	1	0.003	0.571	-		-	0.012	0.005	0.004			-	-	-	 	 		\rightarrow
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)			0.002	0.001	 		 	0.036	1	0.003	0.064				0.042	0.025	0.012	_		-	-		 			-
Dibenzo(a,h)anthracene (aq)	-		0.002	0.002				0.017		0.002	0.084				0.002	0.002	0.002									-
Benzo(q,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		0.001	0.001				0.068		0.003	0.073				0.125	0.023	0.015									
INORGANICS	mg/l																									
Dissolved Organic Carbon	6 - 9 (28.4)	-	7.4	42.3 7.7	50 7.2		24.8	12.5	-	17 7.5					37.3	84.9 6.8	40.2 6.7	6.9	12.2	7 7 4		10.4 7.4	-	6.6	5.9 7.5	
pH Alkalinity (Total)	u - J (264)	-	7.4	960	1095	-	1064	7.8 553	+	7.5		-		-	914	1321	934	0.9	333	7.4 268	-	7.4 311	-	236	7.5 266	
Alkalinity (Total) Chloride	250 (5)	1	191	233	1095 252		1064	43	1	79.2 56	l				914 54	97	934	24	333 18	268		311 20	t	295 26	266 28	\rightarrow
Ammoniacal Nitrogen			72.45	114.3	138.73		54	15.7		33					56.27	166.37	84.5	2.73	3.4	2.91		2.67	i e	1.9	1.63	3
Nitrite			0.01	0.01	0.01		0.01	0.01		0.01					0.01	0.01	0.01	0.008	0.016	0.0025		0.0025		0.011	0.002	
Nitrate	50 (5) 250 (5)	L	0.125	0.125	0.125		0.03	0.15	1	0.125					0.125	0.125	0.125	0.03	0.18	0.03		0.03		0.03	0.03	
Sulphate	250 (5)	1	12.50	13.59	15.64	4.24	49.40	+	11.10	1	-	1	30.40	1	3.56	40.24	3.73	84.20	180.00	1	156.00	-	174.00	69.70	53.10	130.00
Sulphide Calcium		+	74.47	70.51	70.28	265.00	176.00	+	227.00	-	-	-	323.00	-	187.00	177.00	178.00	100.00	158.00	-	132.00	-	137.00	93.90	100.00	136.00
Potassium	1		74.47 50.79	79.51		70.80	29.50	+	50.10	-			275.00		49 39		49.02	5.38	5.02	-	5.34		5.28	93.90	5.48	136.00 5.31
Magnesium			47.79	55.15	56.19	28.70	15.60		22.80				127.00		30.41	40.16	30.74	17.50	21.50		20.90		24.10	16.10	17.50	22.60
Sodium	200(5)		172.00	218.00	221.00	64.40	35.00		50.30				619.00			167.00	52.19	16.80	18.80		17.80		19.10	16.60	18.10	19.00
Biochemical Oxygen Demand		L	2.5	4.4			3.5	2.5	1	2.9					9.8	21.0			2.5	2.5		2.5		2.5	1.5	
Chemical Oxygen Demand		-	60 2038	111	127	-	89	39	1	43		-		-	132	40	116		45	10	-	10	-	10	23	
Conductivity Total Oxidisable Nitrogen		-	2038 0.15		2925 0.15		2150 0.03	1210 0.15	-	1600 0.15					1971 0.15	3060 0.15	1988 0.15	693 0.03	999 0.2	880 0.03		908	-	646 0.03	684	
Total Oxidisable Nitrogen Total Phosphorus	1	1	0.15	0.15	0.15	 	0.03	0.15	1	0.15	-	 		 	0.15	1.15	0.15	0.03	0.125	0.03	 	0.03	1	0.03	0.0	-
TOWN THOUGHOUS	u .			, 0.223				V.14./		0.20									0.11.7						0.3	

The Water Framework Directive (Priority Solidances and Classification) Regulations (Northern Instand) 2015 Freshwater.
 The Water Framework Directive (Priority Solidances and Classification) Regulations (Northern Instand) 2015 Freshwater.
 The Water Framework Directive (Priority Solidances and Classification) Regulation (Northern Instand) 2015 Freshwater.
 The Consuderator Priority (Instandance) Republication (Northern Instandance) Repub

MAC. - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basical cautestoids peaks.

Note: 4 (Colitional bilde derived via the Met all Boowallability Assessment Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool (M. MAT) d

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)	BH204														BH205		
HEAVY METALS	μg/l		10/01/2019 11/04/2019 17/04/201	9 05/07/2019	08/07/2019	15/10/2019	30/10/2019	19/02/2020	26/02/2020	29/09/2020	12/04/2021	26/07/2021 04/11/2021 25/01/	022 11/04/2019 25/04/2019	05/07/2019 08/07/2019	15/10/2019	22/10/2019	23/10/2019 19/02/2020	20/02/2020 07/10/2020	13/04/2021
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		10.00	10.00		10.00		10.00		10.00	8.82	10.00 0.00	10.00	10.00	10.00		10.00	10.00	8.98
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		1.000	1.000		1.000		1.000		1.000	0.025	1.000	1.000	1.000	1.000		1.000	1.000	0.025
Chromium (diss.filt)	50 (5)									2.500	0.125	2.500	3.800	0.780	3.400		0.930	2.500	0.361
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94	2.500	2.500		13.500		2.500 14500		2.500	0.125	8.949 9071 14123 1238	13.500	2.500	6.860		5.640	2.500	0.125
Iron (diss.) Mercury (diss.filt)	1000 (AA) (1&2) 0.07 MAC (1&2)		15800	7340		21100		14500		2017	10234	9071 14123 1238	3 20 0.0025	9600	22400 0.0025		19900	20	4485
Manganese (diss.fit)	123 (AA) (*********************************	276.92	3350	3510		4400		3750		4190	3199,277086	2609.008956 3449.328238 3350.58	8136 3930	5110	4010		4620	2653.077442	3122 826717
	70 (8) 2																		
Nickel (diss.filt)	4 (AA) (1), 8.6 (AA) (2), 34 (MAC) (1&2)	14.98	2.50	2.50		2.50		2.50		2.50	2.03	2.50	6.97	8.98	7.19		6.79	11.09	6.58
Lead (diss.filt)	1.2 ^(888 7008 3) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64	10	10		10		10		10	0.125	10	10	10	10		10	10	0.125
Antimony (diss.filt) Selenium (diss.filt)	10(5)	10									0.10		0.50	0.50	0.50		0.50	-	0.39
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (100 MODE)	37.15	2.97	2.07		3.09		2.33		1.00	0.50	1.00	3.77	2.72	4.18		4.23	2.97	1.74
Iron (Total)											14400	11433.87446 16100 1390							18200
Manganese (Total)											3390	2647.410212 3480 352							3124
Chromium III (diss.filt) Chromium VI (diss.filt)	4.7 (AA) (1) 95th%die (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%die) (2)										0.13		1.90	0.39	1.70		0.47		0.36
Aluminium (diss.filt)	3.4 (AA) (1), U.6 (AA) (2), 32 (95th7sile) (2)		20	20		20		30		30	0.025 20	20 20 20	0.025 20	0.025 20	0.025		0.025	30	0.025
Vanadium (diss.filt)		1	1 1 1	-	1						0.125	20 20			20		20	20	20 0.345
Phenois	ug/l																		
Phenols, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2)											22.50	22.50					60.00	
Speciated TPH Aliphatics	ug/l																		
Aliphatics EC CS-C6	15000 (7)	+		+	 					-	 	10	10		+			10	+
EC>C6-C8	15000 (7)	+	 	+	t						t	10 12.5	10 12.5		+ -			10	+ -
EC>C8-C10	300 (7)				1						1	7.5	7.5					7.5	
EC>C10-C12	300 (7)												5	10				5	
EC>C12-C16 EC>C16-C21	300 (7)												5	5				5	
													5 5	5 180				5	
EC>C21-C35 EC>C35-C44		+												190				5	
														220				1	
Aromatics EC CS-C7	10 (7)											1	1					1	
EC>C7-C8	700 (7)											2.5	2.5					2.5	
EC>C8-C10 EC>C10-C12	300 (7) 90 (7)												25	10				_	
EC>C12-C16	90 (7)										_		3 40	10				5	
EC>C16-C21	90 (7)			_									70	70				5	
EC>C21-C35	90 (7)												5	5				5	
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)											0.50	0.50					0.50	
Toluene	74 (AA) 95th%le (380) (1), 74 (AA) 95th%le (370) (2)											0.50 0.50	0.50					1.72 0.50	
Ethylberizene p/m-Xvlene	300 (8)										_	0.50	0.50 1.00					0.50 1.00	
o-Xylene				_								1.00 0.50	0.50					0.50	
Sum of detected Xylenes	500 (8)											1.50						1.50	
Polyaromatic Hydrocabons	μg/l																		
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)											0.022 0.005	0.382 0.025	0.075 0.018			0.394 0.133	0.139 0.316 0.007 0.027	1.142 0.102
Acenaphthylene (aq) Acenaphthene (aq)	·										_	0.005	0.025	0.030			0.133	0.007 0.027	0.102
Fluorene (aq)	:			_								0.020	0.142	0.030			0.544	0.107 0.122	1.204
Phenanthrene (aq)	-											0.023		0.083					0.731
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)												0.177				0.135	0.051 0.245	
Fluoranthene (aq)												0.014	0.027	0.003			0.038	0.006 0.022	0.126
Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)											0.014 0.018	0.027 0.068	0.003 0.041			0.038 0.057	0.006 0.022 0.015 0.104	0.126 0.055
	0.0063 (AA) (1 & 2) 0.12 (MAC 1)											0.014 0.018 0.013	0.027	0.003 0.041 0.032			0.038 0.057 0.073	0.005 0.022 0.015 0.104 0.018 0.074	0.126 0.055 0.031
Benzo(a)anthracene (aq)	-											0.014 0.018 0.013 0.032	0.027 0.068 0.058 0.067	0.003 0.041 0.032 0.002			0.038 0.057 0.073 0.002	0.006 0.022 0.015 0.104 0.018 0.074 0.002 0.013	0.126 0.055 0.031 0.003
Benzo(a)anthracene (aq) Chrysene (aq) Benzo(b)fluoranthene (aq)	-											0.014 0.018 0.013 0.032 0.032	0.027 0.068 0.058 0.058 0.067 0.063 0.184	0.003 0.041 0.032 0.002 0.012			0.038 0.057 0.073 0.002 0.004 0.003	0.006 0.022 0.015 0.104 0.018 0.074 0.002 0.013 0.004 0.022 0.002 0.018	0.126 0.055 0.031 0.003 0.004 0.009
Benzo(a)anthracene (aq) Chrysene (aq) Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (182) 0.017 (MAC) (182)											0.014 0.018 0.013 0.032 0.032 0.038 0.039 0.045	0.027 0.088 0.058 0.067 0.063 0.184 0.157	0.003 0.041 0.032 0.002 0.012 0.012			0.038 0.057 0.073 0.002 0.004 0.003 0.001	0.006 0.022 0.015 0.104 0.018 0.074 0.002 0.013 0.004 0.022 0.002 0.018 0.001 0.014	0.126 0.055 0.031 0.003 0.004 0.009 0.006
Benzo(a)anthracene (aq) Chrysene (aq) Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq) Benzo(a)pyrene (aq)	-											0.014 0.013 0.013 0.032 0.038 0.039 0.045 0.083	0.027 0.068 0.058 0.057 0.063 0.184 0.157	0.003 0.041 0.032 0.002 0.012 0.012 0.012 0.010			0.038 0.057 0.073 0.002 0.004 0.003 0.001	0.006 0.022 0.015 0.104 0.018 0.074 0.002 0.013 0.004 0.022 0.002 0.018 0.001 0.014 0.002 0.026	0.126 0.055 0.031 0.003 0.004 0.009 0.006
Benzo(a)anthracene (aq) Chrysene (aq) Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq) Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.017 (MAC) (182) 0.017 (MAC) (182)											0.014 0.018 0.013 0.032 0.032 0.038 0.039 0.045 0.083	0.027 0.068 0.058 0.057 0.063 0.063 0.184 0.157 0.122 0.232	0.003 0.041 0.032 0.002 0.012 0.012 0.010 0.007			0.038 0.057 0.073 0.002 0.004 0.003 0.001 0.001	0.006 0.022 0.015 0.104 0.018 0.074 0.002 0.013 0.004 0.022 0.002 0.018 0.001 0.014 0.002 0.026 0.002 0.026	0.126 0.055 0.031 0.003 0.004 0.009 0.006 0.012 0.047
Benzo(a)anthracene (aq) Chrysene (aq) Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq) Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq)	0.017 (MAC) (182) 0.017 (MAC) (182) 0.0017 (MA) (1 8 2) MAC (0.27 (1) 0.027 (2))											0.014 0.018 0.013 0.032 0.032 0.038 0.045 0.065 0.029	0.027 0.068 0.058 0.057 0.063 0.184 0.157	0.003 0.041 0.032 0.002 0.012 0.012 0.010 0.007 0.0001			0.038 0.057 0.073 0.002 0.004 0.003 0.001 0.001 0.002	0.005 0.022 0.015 0.104 0.018 0.074 0.002 0.013 0.004 0.022 0.002 0.018 0.001 0.014 0.002 0.026 0.002 0.026 0.002 0.026 0.002 0.026 0.002 0.023	0.126 0.055 0.031 0.003 0.004 0.009 0.006 0.012 0.047
Benzo(a) anthracene (sq) Chrysene (sq) Benzo(b)fluoranthene (sq) Benzo(b)fluoranthene (sq) Benzo(a)pyrene (sq) Indeno(1,2,3-cx)pyrene (sq) Indeno(1,2,3-cx)pyrene (sq) Debezo(a,h)anthracene (sq) Benzo(a,h)peryene (sq)	0.017 (MAC) (182) 0.017 (MAC) (182)											0.014 0.018 0.013 0.032 0.032 0.038 0.039 0.045 0.083	0.027 0.058 0.058 0.058 0.063 0.063 0.154 0.157 0.152 0.232 0.234 0.160	0.003 0.041 0.032 0.002 0.012 0.012 0.010 0.007 0.005 0.005			0.038 0.057 0.073 0.002 0.004 0.003 0.001 0.001	0.006 0.022 0.015 0.104 0.018 0.074 0.002 0.013 0.002 0.013 0.002 0.018 0.002 0.018 0.001 0.014 0.002 0.025 0.002 0.025 0.002 0.025 0.002 0.003	0.126 0.055 0.031 0.003 0.004 0.009 0.006 0.012 0.047 0.014
Benzo(a) anthracene (as) Chrysene (as) Benzo(b)fluoranthene (aq) Benzo(b)fluoranthene (aq) Benzo(s)pyrene (aq) Indeno(1,23-cd)pyrene (aq) Dibenzo(a,h)parthracene (aq) Benzo(a,h)parthracene (aq) INORGANICS Dissolved Organic Carbon	6.0917 (MAC) (182) 6.0917 (MAC) (182) 6.00017 (AA) (1 8 2) ** MAC (507 (1) 0.027 (2)) 6.00017 (MAC) (1) 6.000002 (MAC) (2) 		114 95		8.9		10.9		7.2	4.6	5.9	0.014 0.018 0.013 0.013 0.022 0.088 0.099 0.005 0.009 0.004 0.028	0.027 0.068 0.058 0.057 0.063 0.184 0.119 0.137 0.132 0.234 0.214 0.140 0.214 0.214	0.003 0.041 0.032 0.002 0.002 0.012 0.012 0.007 0.000 0.000 0.000 0.000		28.6	0.038 0.057 0.073 0.002 0.004 0.003 0.001 0.001 0.002	0.005 0.022 0.015 0.104 0.018 0.074 0.002 0.013 0.004 0.022 0.002 0.018 0.001 0.014 0.002 0.026 0.002 0.026 0.002 0.026 0.002 0.026 0.002 0.023	0.126 0.055 0.031 0.003 0.004 0.009 0.006 0.012 0.047 0.014 0.034
Benzo(a) anthracene (aq) Chrysene (aq) Benzo(b)fluoranthene (aq) Benzo(b)fluoranthene (aq) Benzo(b)fluoranthene (aq) Benzo(a) pyrene (aq) Indeno(1,2,3-cd) pyrene (aq) Indeno(1,2,3-cd) pyrene (aq) Debenzo(a,h)anthracene (aq) Benzo(a,h)aperiyene (aq) INORGANICS Dissolved Organic Carbon pH	0.017 (MAC) (18.2) 0.017 (MAC) (18.3) 0.0017 (AA) (18.2) MAC (0.27 (1) 0.027 (2)) 0.0082 (MAC)(1) 8 0.00082 (MAC) (2)		6.9 7		6.9		7.1		7.2 7.4	6.9	6.8	0.014 0.018 0.018 0.013 0.023 0.023 0.039 0.039 0.045 0.068 0.029 0.004 0.004 0.008 7 5.5	0,027 0,058 0,058 0,058 0,059 0,158 0,158 0,158 0,152 0,252 0,252 0,254 0,160	0.003 0.041 0.032 0.002 0.002 0.012 0.010 0.001 0.005 0.005 0.005		6.9	0.038 0.057 0.073 0.002 0.004 0.003 0.001 0.001 0.002	0.006 0.022 0.015 0.104 0.018 0.074 0.002 0.013 0.004 0.022 0.001 0.014 0.001 0.014 0.002 0.03 0.002 0.03 0.002 0.03 0.002 0.03 0.002 0.05 0.002 0.05 0.002 0.05 0.002 0.05	0.126 0.055 0.031 0.003 0.004 0.009 0.006 0.012 0.047 0.014 0.034 27.5 7.1
Benzo(a) anthracene (sq) Chrysene (sq) Benzo(b)Muranthene (sq) Benzo(b)Muranthene (sq) Benzo(b)Muranthene (sq) Benzo(a) pyrene (sq) Inden (1,2)-d/g)pyrene (sq) Dibenzo(a,h)anthracene (sq) Benzo(a,h)bentwere (sq) Benzo(a,h)bentwere (sq) Benzo(a,h)bentwere (sq) Benzo(a,h)bentwere (sq) Benzo(a,h)bentwere (sq) Benzo(a,h)bentwere (sq) Benzo(a,h)bentwere (sq) Benzo(a,h)bentwere (sq) Benzo(a,h)bentwere (sq) Benzo(a,h)bentwere (sq) Benzo(a,h)benzwere (sq) Benzo(a,h)			6.9 7 364 323		6.9 308		7.1 321		7.2 7.4 309	6.9 348	6.8 301	0.014 0.014 0.015	0,027 0,088 0,058 0,056 0,053 0,158 0,159 0,	0.003 0.041 0.032 0.002 0.002 0.002 0.002 0.001 0.007 0.001 0.005 0.001 28.5 6.9		6.9 935	0.038 0.057 0.073 0.002 0.004 0.003 0.001 0.001 0.002	0.006 0.022 0.015 0.104 0.015 0.104 0.018 0.074 0.002 0.013 0.004 0.025 0.002 0.013 0.001 0.014 0.001 0.014 0.002 0.025 0.002 0.006 0.002 0.006 0.007 0.006 0.007 0.006 0.007 0.006 0.007 0.006 0.007 0.006 0.007 0.006 0.007 0.006	0.126 0.055 0.031 0.003 0.004 0.009 0.006 0.012 0.047 0.014 0.034 22.5 7.1 1066
Benzo(a) anthracene (so) Chrysene (aq) Benzo(b)fluoranthene (aq) Benzo(b)fluoranthene (aq) Benzo(b)fluoranthene (aq) Benzo(a) juyrene (aq) Indend (2,2-d)pyrene (aq) Dibenzo(a,hyanthracene (aq) Benzo(a) juyrene (aq) Dibenzo(a,hyanthracene (aq) Dibenzo(a,h	6.0917 (MAC) (182) 6.0917 (MAC) (182) 6.00017 (AA) (1 8 2) ** MAC (507 (1) 0.027 (2)) 6.00017 (MAC) (1) 6.000002 (MAC) (2) 		6.9 7 364 323 21 21		6.9 308 26		7.1 321 24		309 22	6.9 348 46	6.8	0.014	0,027 0,056 0,056 0,056 0,057 0,057 0,127 0,	0.003 0.041 0.032 0.002 0.012 0.012 0.012 0.010 0.007 0.000 0.000 0.005 0.001 28.5 6.9 874 776		6.9	0.038 0.057 0.073 0.002 0.004 0.003 0.001 0.001 0.002	0.006 0.022 0.015 0.104 0.018 0.074 0.002 0.013 0.004 0.022 0.003 0.001 0.001 0.014 0.002 0.054 0.002 0.054 0.002 0.055 0.002 0.055 44.8 28.6 7 7 7 1120 876 117 52	0.126 0.055 0.031 0.003 0.004 0.009 0.006 0.012 0.047 0.014 0.034 27.5 7.1 1066 52
Bersso(a)arthracener (sa) Christene (sa) Bersso(b)flooranthrene (sr) Bersso(b)flooranthrene (sr) Bersso(a)pryrene (sa) Indenot (s.2,3-cd)pryrene (sa) Indenot (s.2,3-cd)pryrene (sa) Bersso(a,h)persyrene (sa) Bersso(a,h)persyrene (sa) Bersso(a,h)persyrene (sa) Bersso(a,h)persyrene (sa) Bersso(a,h)persyrene (sa) Berssol (s.2,3-cd)pryrene (sa) Berssol (s.2,3-cd)pryrene (sa) Allasinity (Total) Chloride American (stripe)	0.017 (MAC) (182) 0.017 (MAC) (182) 0.00017 (MAC) (182) 0.00017 (MA) (18.2) MAC (0.27 (1) 0.027 (2)) 0.00017 (MAC) (18.000012 (MAC) (2) 0.00017 (MAC) (18.000012 (MAC) (18.000012 (MAC) (2) 0.00017 (MAC) (M		6.9 7 364 323 21 21 21 3.07 2.2 0.012 0.01		6.9 308 26 2.4 0.01		7.1 321 24 3.3 0.01			6.9 348 46 2.24 0.01	6.8 301 31	0.014 0.014 0.014 0.014 0.015 0.015 0.015 0.017	0.027 0.068 0.069 0.009 0.019 0.014 0.137 0.132 0.234 0.136 0.37 0.77 7.7 1100 78 78 78	0.003 0.041 0.022 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.003 0.002 0.003		6.9 935 103	0.038 0.057 0.073 0.002 0.004 0.003 0.001 0.001 0.002	0.006 0.022 0.015 0.104 0.015 0.104 0.018 0.074 0.002 0.013 0.004 0.025 0.002 0.013 0.001 0.014 0.001 0.014 0.002 0.025 0.002 0.006 0.002 0.006 0.007 0.006 0.007 0.006 0.007 0.006 0.007 0.006 0.007 0.006 0.007 0.006 0.007 0.006	0.126 0.055 0.0031 0.003 0.0004 0.0009 0.0006 0.012 0.014 0.034 0.034 0.034 0.034 0.034
Benusol alerthracone (oa) Ornestere (oa) Denset (benes (oa) Benus (benus (benus (oa) Benus (benus (benus (oa) Benus (benus (benus (oa) Benus (benus (benus (oa) Benusol (benus (oa) Benusol (benus (oa) Benusol (benusol (oa) Benusol (benusol (oa) Benusol (benusol (oa) Benusol (benusol (oa) Benusol (benusol (oa) Benusol (benusol (oa) Benusol (oa	0.017 (MAC) (182) 0.017 (MAC) (182) 0.00017 (MAC) (182) 0.00017 (MA) (18.2) MAC (0.27 (1) 0.027 (2)) 0.00017 (MAC) (18.000012 (MAC) (2) 0.00017 (MAC) (18.000012 (MAC) (18.000012 (MAC) (2) 0.00017 (MAC) (M		6.9 7 364 323 21 21 21 3.07 2.2 0.012 0.01 0.03 0.15		6.9 308 26 2.4		7.1 321 24 3.3		309 22 1.49	6.9 348 46 2.24 0.01 0.125	6.8 301 31 1.45 0.01 0.125	0.014 0.014 0.014 0.014 0.014 0.012 0.012 0.012 0.012 0.015	0.027 0.068 0.069 0.069 0.069 0.061 0.121 0.122 0.122 0.123 0.124 0.124 0.125 0.	0.003 0.041 0.032 0.002 0.002 0.012 0.012 0.012 0.010 0.057 0.000 0.055 0.000 285 6.9 8.74 76 9.96 0.001 0.001		935 103 18.98	0.038 0.057 0.073 0.073 0.000 0.000 0.001 0.001 0.001 0.001 0.001 0.002	0,006 0,002	0.126 0.055 0.031 0.003 0.004 0.009 0.009 0.009 0.004 0.014 0.014 27.5 7.1 1066 52 2.2.85 0.027
Beruso(a) archrasone (sa) Oniverse (sa) Denso(o) Anomalie (sa) Benso(o) Aproverse (sa) Benso(a) Aproverse (sa) Indenso(a), 2,3 - Giproverse (sa) Indenso(a,2,3 - Giproverse (sa) Debenso(a, h) perviews (sa) Benso(a, h) perviews (sa			6.9 7 364 323 21 21 21 3.07 2.2 0.012 0.01	89.70	6.9 308 26 2.4 0.01	108.00	7.1 321 24 3.3 0.01	113.00	309 22 1.49 0.01	6.9 348 46 2.24 0.01	6.8 301 31 1.45 0.01	0.014 0.014 0.014 0.014 0.015 0.015 0.015 0.017	0.027 0.068 0.069 0.069 0.069 0.061 0.121 0.122 0.122 0.123 0.124 0.124 0.125 0.	0.003 0.041 0.022 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.003 0.002 0.003	148.00	935 103 18.98 0.01	0.038 0.057 0.073 0.002 0.004 0.003 0.001 0.001 0.002	0.006 0.002 0.015 0.104 0.018 0.074 0.002 0.013 0.002 0.013 0.004 0.022 0.002 0.024 0.002 0.024 0.002 0.024 0.002 0.024 0.002 0.025 0.002 0.005 1.000 0.001 0.000 0.001 0.000 0.002 0.002 0.005 0.002 0.005	0.126 0.055 0.0031 0.003 0.0004 0.0009 0.0006 0.012 0.014 0.034 0.034 0.034 0.034 0.034
Benso() intrinsione (ep) Benso() intrinsion	0.017 (MAC) (182) 0.017 (MAC) (182) 0.00017 (MAC) (182) 0.00017 (MA) (18.2) MAC (0.27 (1) 0.027 (2)) 0.00017 (MAC) (18.000012 (MAC) (2) 0.00017 (MAC) (18.000012 (MAC) (18.000012 (MAC) (2) 0.00017 (MAC) (M		6.9 7 364 323 21 21 3.07 2.2 0.012 0.01 0.03 114.00	89.70	6.9 308 26 2.4 0.01		7.1 321 24 3.3 0.01		309 22 1.49 0.01	6.9 348 46 2.24 0.01 0.125 76.73	6.8 301 31 1.45 0.01 0.125 62.20	0014 0014 0011 0011 0012 0012 0019 0010 0010 0010	0.027 0.068 0.069 0.067 0.061 0.061 0.061 0.061 0.061 0.07 0.07 0.07 0.07 0.07 0.07 1.00 0.07 1.00 0.07 1.00 0.07 1.00 0.07 1.00 0.07 1.00 0.07 1.00 0.07 1.00 0.07 1.00 0.07 1.00 0.07 1.00 0.07 1.00 1.0	0.003 0.041 0.032 0.002 0.002 0.002 0.002 0.003 0.002 0.003 0.005 0.005 0.001 0.005 26.5 6.9 874 75 9.56 0.01 0.01 0.05 23.1		935 103 18.98 0.01	0.038 0.057 0.057 0.052 0.002 0.003 0.001 0.001 0.001 0.001 0.002 0.002 0.002 0.002 0.002	0,006 0,002	0.126 0.055 0.031 0.003 0.000 0.009 0.009 0.009 0.004 0.014 0.014 27.5 7.1 1066 52 2.2.85 0.027 0.027 63.01
Benzo() Intrinsore (m) Chryster (m) Chryster (m) Chryster (m) Benzo() Apprent (m) Benzo() Apprent (m) Index(), 2, -chryster (m) Index(), 2, -chryster (m) Benzo() Apprent (m) Index(), 2, -chryster (m) Benzo(), 2, -chryster (m) Benzo(), 2, -chryster (m) Benzo(), 2, -chryster (m) Benzo(), 2, -chryster (m) Benzo(), 2, -chryster (m) Benzo(), 2, -chryster (m) Alkalnyk (104) Chryster (m) Nitze Nitze Nitze Sciphide Golden Golden	0.017 (MAC) (182) 0.017 (MAC) (182) 0.00017 (MAC) (182) 0.00017 (MA) (18.2) MAC (0.27 (1) 0.027 (2)) 0.00017 (MAC) (18.000012 (MAC) (2) 0.00017 (MAC) (18.000012 (MAC) (18.000012 (MAC) (2) 0.00017 (MAC) (M		6.9 7 364 323 21 21 3.07 2.2 0.012 0.01 0.03 114.00 127.00		6.9 308 26 2.4 0.01	136.00	7.1 321 24 3.3 0.01	113.00 134.00 5.44	309 22 1.49 0.01	6.9 348 46 2.24 0.01 0.125	6.8 301 31 1.45 0.01 0.125 62.20	0.014 0.014 0.014 0.014 0.015 0.015 0.011	0.027 0.028 0.028 0.028 0.028 0.028 0.029 0.029 0.029 0.029 0.031	0,0001 0,041 0,012 0,012 0,012 0,012 0,012 0,013 0,007	327.00	935 103 18.98 0.01	0.038 0.057 0.073 0.073 0.000 0.000 0.001 0.001 0.001 0.001 0.001 0.002	0,006 0,002 0,003 0,005	0.126 0.055 0.031 0.003 0.004 0.009 0.006 0.012 0.047 0.034 0.034 27.5 7.1 1066 52 22.2 85 0.027 0.125 0.027
Benso() intrinsione (ep) Benso() intrinsion			6.9 7 364 323 21 21 21 3.07 2.2 0.012 0.01 114.00 1127.00 5.18 21.90	89.70 119.00 5.66 21.10	6.9 308 26 2.4 0.01	136.00 6.19 22.60	7.1 321 24 3.3 0.01	134.00 5.44 21.10	309 22 1.49 0.01	6.9 348 46 2.24 0.01 0.125 76.73 127.74 5.94 21.88	6.8 301 31 1.45 0.01 0.125 62.20 114.22 5.17 19.42	0.014 0.014 0.014 0.014 0.012 0.012 0.012 0.012 0.012 0.013 0.014 0.015	0077 0007 0007 0007 0007 0007 0007 000	0,001 0,011 0,012 0,013 0,013 0,013 0,013 0,013 0,013 0,013 0,007	327.00 38.40 43.40	935 103 18.98 0.01	0.038 0.057 0.057 0.057 0.002 0.004 0.001 0.001 0.001 0.001 0.002 0.	0,006 0,002	0.126 0.055 0.031 0.003 0.000 0.000 0.009 0.009 0.001 0.014 0.034 7.1 7.1 1066 52 2.2.85 0.027 0.027 0.027 0.027 0.027 0.027 0.034 0.035 0.
Bensical intrinsione (ear) Chrysteria (Sal) Chrysteria (Sal) Chrysteria (Sal) Bensic(Life and International Salitation Bensic(Life and International Salitation Difference (and International Salitation Difference (and International Salitation Difference (and International Salitation Difference (and International Salitation Difference (and International Salitation Difference (and International Salitation Difference (and International Salitation Difference (and International Salitation Salitation Palassium Palassium Palassium	0.017 (MAC) (182) 0.017 (MAC) (182) 0.00017 (MAC) (182) 0.00017 (MA) (18.2) MAC (0.27 (1) 0.027 (2)) 0.00017 (MAC) (18.000012 (MAC) (2) 0.00017 (MAC) (18.000012 (MAC) (18.000012 (MAC) (2) 0.00017 (MAC) (M		6.9 7 354 323 21 21 21 307 2.2 0.012 0.01 0.03 114.00 127.00 5.38	89.70 119.00 5.66	6.9 308 26 2.4 0.01	136.00 6.19	7.1 321 24 3.3 0.01	134.00 5.44	309 22 1.49 0.01	6.9 348 46 2.24 0.01 0.125 76.73	6.8 301 31 1.45 0.01 0.125 62.20 114.22 5.17	0.014 0.014 0.013 0.013 0.013 0.013 0.012 0.014 0.045 0.045 0.014	0077 0007 0007 0007 0007 0007 0007 000	0.003 0.041 0.021 0.021 0.022 0.022 0.022 0.022 0.020 0.000	327.00 38.40	935 103 18.98 0.01	0.038 0.057 0.057 0.072 0.002 0.002 0.003 0.003 0.003 0.002 0.003 0.002 0.002 0.003 0.003 0.004 0.004 0.004 0.004 0.005 0.004 0.	0,006 0,002	0.126 0.095 0.0031 0.003 0.0004 0.0009 0.0006 0.0012 0.0047 0.0144 0.034 27.5 22.25 0.027
Bennot justinisence (ai) Chysice (ai) Chys	6.917 (MAC) (182) 0.917 (MAC) (182) 0.00017 (AM) (18.2) ** NAC (10.7 (1) 0.927 (2)) 0.00017 (AM) (18.2) ** NAC (10.7 (1) 0.927 (2)) 0.00012 (MAC) (1) 0.000002 (MAC) (2) 		6.9 7 364 323 21 21 21 3.07 2.2 0.012 0.01 0.03 114.00 0.15 1177.00 1.18 70 1.18 70 3.3 1.5	89.70 119.00 5.66 21.10	6.9 308 26 2.4 0.01 0.125	136.00 6.19 22.60	7.1 321 24 3.3 0.01 0.125	134.00 5.44 21.10	309 22 1.49 0.01	6.9 348 46 2.24 0.01 0.125 76.73 127.74 5.94 21.88 19.52 1.5	6.8 301 31 1.45 0.01 0.125 62.20 114.22 5.17 19.42 19.05 2.5	0.014 0.014 0.013 0.013 0.013 0.022 0.022 0.024 0.045 0.045 0.028 0.024	0077 0060 0060 0060 0060 0060 0060 0060	0.001 0.001 0.001 0.002 0.002 0.002 0.003	327.00 38.40 43.40	6.9 935 103 18.98 0.01 0.125	0.038 0.057 0.057 0.057 0.002 0.004 0.001 0.001 0.001 0.001 0.002 0.	0.006 0.027	0.126 0.095 0.005 0.003 0.000 0.000 0.000 0.000 0.001 0.012 0.014 0.034 27.5 7.1 1066 52 2.2.85 0.027 6.3.01
Bennick partnersene (all) Bennick Stevenstein (all) Bennick Stevenstei	6.917 (MAC) (182) 0.917 (MAC) (182) 0.00017 (AM) (18.2) ** NAC (10.7 (1) 0.927 (2)) 0.00017 (AM) (18.2) ** NAC (10.7 (1) 0.927 (2)) 0.00012 (MAC) (1) 0.000002 (MAC) (2) 		6.9 7 364 323 22 22 22 21 3073 22 3073 22 3073 22 3073 32 31400 117700 3.38 2130 3.33 15.5	89.70 119.00 5.66 21.10	6.9 308 26 2.4 0.01 0.125	136.00 6.19 22.60	7.1 321 24 3.3 0.01 0.125	134.00 5.44 21.10	309 22 1.49 0.01 0.125	6.9 348 46 2.24 0.01 0.125 76.73 127.74 5.94 21.88 19.52 1.5	6.8 301 1.45 0.01 0.125 62.20 114.22 5.17 19.42 19.95 2.5	0.014 0.014 0.014 0.014 0.015	0077 0088 0088 0089 0097 0097 0098 0098	0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.000	327.00 38.40 43.40	6.9 935 103 18.98 0.01 0.125	0.038 0.057 0.057 0.057 0.002 0.004 0.001 0.001 0.001 0.001 0.002 0.	0.006 0.027	0.126 0.055 0.031 0.003 0.0004 0.0004 0.0004 0.012 0.014 0.014 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5
Bennol hardnesser (ed) Chryster (ed) and Chryster (ed) and Chryster (ed) and Dennol Shar anthere (ed) Bennol Shar anthere (ed) Bennol Shar anthere (ed) Dennol Shar anthere	6.917 (MAC) (182) 0.917 (MAC) (182) 0.00017 (AM) (18.2) ** NAC (10.7 (1) 0.927 (2)) 0.00017 (AM) (18.2) ** NAC (10.7 (1) 0.927 (2)) 0.00012 (MAC) (1) 0.000002 (MAC) (2) 		6.9 7 364 323 31 22 327 327 22 329 329 329 320 321 320 321 320 321 320 321 320 321 320 320 320 320 320 320 320 320 320 320	89.70 119.00 5.66 21.10	6.9 308 26 2.4 0.01 0.125	136.00 6.19 22.60	7.1 321 24 3.3 0.01 0.125	134.00 5.44 21.10	309 22 1.49 0.01 0.125	6.9 348 46 2.24 0.01 0.125 76.73 127.74 5.94 21.88 19.52 1.5 10 8855	6.8 301 31 1.45 0.01 0.125 62.20 114.22 5.17 19.42 19.95 2.5 10	0.014 0.014 0.014 0.014 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.014	0077 0089	0.001 0.004 0.004 0.000	327.00 38.40 43.40	6.9 935 103 18.98 0.01 0.125 2.8 53 2190	0.038 0.057 0.057 0.057 0.002 0.004 0.001 0.001 0.001 0.001 0.002 0.	0.000 0.022	0.126 0.055 0.031 0.003 0.003 0.000 0.000 0.000 0.000 0.000 0.000 0.004 0.014 0.014 0.014 1066 27.5 22.85 0.000 0.015 1066 0.015 0.015 1066 0.015 1066 0.015 1066 0.015 1066 0.015 1066 0.015 1066 0.015 1066 0.015 1066 0.015 1066 0.015 1066 0.015 1066 0.015 1066 0.015
Bennick partnersene (as) Bennick partnersene (as) Bennick Stevensterne	6.917 (MAC) (182) 0.917 (MAC) (182) 0.00017 (AM) (18.2) ** NAC (10.7 (1) 0.927 (2)) 0.00017 (AM) (18.2) ** NAC (10.7 (1) 0.927 (2)) 0.00012 (MAC) (1) 0.000002 (MAC) (2) 		6.9 7 364 323 22 22 22 21 3073 22 3073 22 3073 22 3073 32 31400 117700 3.38 2130 3.33 15.5	89.70 119.00 5.66 21.10	6.9 308 26 2.4 0.01 0.125	136.00 6.19 22.60	7.1 321 24 3.3 0.01 0.125	134.00 5.44 21.10	309 22 1.49 0.01 0.125	6.9 348 46 2.24 0.01 0.125 76.73 127.74 5.94 21.88 19.52 1.5	6.8 301 1.45 0.01 0.125 62.20 114.22 5.17 19.42 19.95 2.5	0.014 0.014 0.014 0.014 0.015	0077 0007 0007 0007 0007 0007 0007 000	0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.000	327.00 38.40 43.40	6.9 935 103 18.98 0.01 0.125	0.038 0.057 0.057 0.057 0.002 0.004 0.001 0.001 0.001 0.001 0.002 0.	0.006 0.027	0.126 0.055 0.031 0.003 0.0004 0.0004 0.0004 0.012 0.014 0.014 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Instance) 2015 Feathwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Instance) 2015 Feathwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Instance) 2015 Feathwater.
 The Water Framework Directive) Regulation Annual Water Directive (Instance) 2015 Feathwater.
 The Water Framework Directive) Regulation Water Directive (Instance) 2015 Feathwater (I

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution-peaks in continuous discharges since they are significantly lower than the values derived on the basic of autoestockity.

Note:

Note: Comparison of the

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)												ВН206	6												
HEAVY METALS	µg/l		27/07/2021	27/10/2021	25/01/2022	20/07/2016	09/08/2016	27/09/2016	11/04/2018	11/04/2019	19/02/2020	24/02/2020	01/07/2020 2	2/07/2020	27/07/2020	26/08/2020	05/10/2020	23/11/2020	17/02/2021	14/04/2021	28/07/2021	01/11/2021	27/01/2022	20/07/2016	09/08/2016	20/07/2017	24/10/2017
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2) 0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l		10.00	0.00						10.00	10.00						10.00		6.28	12.90		7.42				12.50	10.00
Cadmium (diss.filt) Chromium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l	_	1.000 2.500							1.000	1.000 0.950						1.000	-	0.025	0.025		0.025		-		5.000 12.500	1.000
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94	29.325							13.600	10.000						2.500		0.125	0.805	0.250	0.125	0.125			10.000	8.300
Iron (diss.)			29900	7838	27600					27900	38000						107		14389	29400	14004	10346				8890	11700
Mercury (diss.filt) Manganese (diss.filt)	0.07 MAC (182) 123 (AA) (*********************************	276.92	3627 849036	2440 207010	3115.456553					0.0025	0.0025						0.0025 10826 34101		0.0025	0.0025	0.0025	0.0025 8080	0.0025 6260			1170	1620
Molybdenum (diss.filt)	70 (8) ?		3027.043030	3440.283818	3115.450553					13000	12500						10020.34101			8440	10100	8080	6260				
Nickel (diss.filt)	4 (MAC) (182)		8.18							30.70	16.10						32.22		20.55	26.02	53.00	32.70	16.86			12.50	86.90
Lead (diss.filt)	1.2 ^(MA 70W 5) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182) 5 (5)	9.64	10							10	10						10		0.125	1.200486617	0.025	0.125	0.125			12.5	10
Antimony (diss.filt) Selenium (diss.filt)	10(5)	10									0.50						0.51		0.52	0.68	0.60	0.56	0.48				
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (100 Hours)	37.15	7.90							6.00	5.77						3.34		1.03	6.05	4.23	1.35	0.50			10.00	6.62
Iron (Total)			43900 3870	23300 3640	46000 3340														42300 8390	25900 8690	65300 11700	36700 8670	25400 7000			50200 1450	
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)	_	3870	3640	3340						0.48						0.80		0.68	1.28	1.40	0.81	0.78			1450	18/5.9/0162
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)										0.025						0.025		0.025	0.025	0.025	0.025	0.025				
Aluminium (diss.filt)			20	20	20					20	20						20		20	20	20	20	20			50	50
Vanadium (diss.filt)	ug/I																0.741		0.991	2.146	1.498	0.866	1.009				
Phenois, Total	7.7 (1&2) 46 (95th%ile) (1&2)									22.50		60.00					490.00			370.00	570.00	22.50	22.50				
Speciated TPH Aliphatics	ug/l																										
Aliphatics EC CS-C6	15000 (7)								-	10		10	10	10	10		10	10	10	10	10	10	10	1			-
EC>06-08	15000 (7)									151		12.5	12.5	12.5	12.5		12.5	12.5	12.5	12.5	12.5	12.5	134.966				
EC>C8-C10	300 (7) 300 (7)									123		7.5	7.5	7.5	7.5		7.5	7.5	7.5	7.5	7.5	7.5		1			
EC>C10-C12 EC>C12-C16	300 (7) 300 (7)	_		-	1	1		1	!	390 910	+	5 10				1	l	1		-	1	-	1	1	1		+
EC>C16-C21	500 (1)									1400		310 340															_
EC>C21-C35 EC>C35-C44										680																	
										30		5															
Aromatics EC CS-C7	10 (7)									179		19.4	2313	463	850		744	114.544	152.209	99.584	1383.73	904.609	1				_
EC>C7-C8	700 (7)									2.5		2.5	208	32.3	72.3		180	28.114	91.674	58.641	812.771	496.611	2.5				
EC>C8-C10 EC>C10-C12	300 (7) 90 (7)									25 390		5															
EC>C12-C16	90 (7)									780		150															-
EC>C16-C21	90 (7)									470		38															
EC>C21-C35	90 (7) 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)									70 179.00		5 19.40	2227.00	453.00	807.00		687.00	112.14	146.46	96.41	1342.12	826.83	70.76				
Benzene Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)									0.50		0.50	86.10	9.74	43.10		56.70	2.40	5.75	3.17	41.61	77,78	3.54				
Ethylbenzene	300 (8)									0.50		0.50	106.00	15.10	14.70		111.00	22.85	34.10	21.06	325.37	165.70	23.06				
p/m-Xylene o-Xylene										1.00 0.50		0.50	9.40 6.70	4.07 3.47	8.28 6.17		7.78 4.86	1.00 1.16	50.24 1.58	33.67 0.50	436.21 9.59	245.03 8.10	33.19 0.50				
Sum of detected Xvienes	500 (8)									0.30		1.50	16.10	7.53	14.50		12.60	1.50	51.83	34.41	445.79	253.13	34.07				-
Polyaromatic Hydrocabons	μη/l 2 (AA) (1 &2) 130 (MAC 1&2)											192 620											5.494				
Naphthalene (aq) Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)		0.014	0.294	0.068 0.012					36.135 4.741		192.620 33.150					93.848 16.139	37.664 8.710	12.065 0.614	12.259 5.650	142.385 21.655	189.159 6.714					
Acenaphthene (aq)			0.024	0.043	0.133					6.313		18.741					11.335	9.424	0.467	0.004	11.986	5.040	5.634				_
Fluorene (aq)	•		0.031	0.107	0.117					4.050		1.274					1.504 1.749	1.193	2.976	1.139 0.419	1.185	1.216 0.634					
Phenanthrene (aq) Anthracene (aq)	0.1 (AA & MAC) (1 & 2)	_	0.019	0.032	0.063					5.402 0.728		1.439 0.139					0.212	1.417 0.240	1.108 0.277	0.419	0.655	0.634	0.664				
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)		0.014	0.033	0.025					1.192		0.403					0.843	0.651	0.328	0.113	0.158	0.518	0.239				
Pyrene (aq)	-		0.013	0.045	0.031					1.259		0.416					0.864	0.601	0.265	0.083	0.084	0.612	0.204				\perp
Benzo(a)anthracene (aq) Chrysene (aq)	-	_	0.003	0.005	0.004	 	l	 	 	0.218 0.303	+	0.061	f			 	0.237	0.125 0.178	0.224	0.033	0.013	0.155 0.189		1	1		+
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)		0.012	0.009	0.011					0.092		0.023					0.206	0.134	0.117	0.023	0.008	0.133	0.042				
Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2)		0.005	0.004						0.047		0.007		Ţ			0.138	0.080	0.078	0.030	0.007	0.050	0.029				\vdash
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	_	0.007	0.013 0.016	0.037	 		 	 	0.088	-	0.027	1			 	0.258	0.103 0.141	0.160 0.106	0.055	0.010	0.130 0.152	0.048	1			
Dibenzo(a,h)anthracene (aq)			0.002	0.002	0.017					0.086		0.002					0.042	0.021	0.010	0.016	0.002	0.008	0.002				
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		0.005	0.008	0.003					0.085		0.010					0.136	0.089	0.075	0.017	0.011	0.073	0.027				
INORGANICS Dissolved Organic Carbon	mg/I			23.7	30.8	65	45	54	64.2			49.6					36.8		51.6	55.9		83.4	64	83	110		68.8
pH	6 - 9 (2&4)		7.1	6.9	7	7.4	6.9	6.8	7.1			7					6.9		7.2	7	7	7	6.9	7.1	7.2	7.9	6.8
Alkalinity (Total) Chloride	250 (5)	\rightarrow	979 67	976 51	1029	330	740 1900	520 2000	1019	-		849 932		-	_		955	1 -	878 581	1020	1244	1089	1061	2000 340	3000 460	491	1792
Chlonde Ammoniacal Nitrogen	250 (5)		22.05	27.26	55 33.07	0.24	1900 0.067	0.055	1324 7.04	 		932 15.02	 				990 27.43	1	581 17.33	402 16.89	95.37	52.51	27.82	340 1.6	460 3.8	491 378	204
Nitrite			0.01	0.01	0.01	0.059	0.01	0.01	0.01			0.01					0.01		0.01	0.01	0.01	0.01	0.01	0.047	0.01	0.016	0.0025
Nitrate	50 (5) 250 (5)	\rightarrow	0.125		0.125	0.25	0.25	0.25	0.15	55.10	30.60	0.125		-		1	0.125	1	0.125	0.125	0.125	0.125	0.125	0.25	0.25	0.03	
Sulphate Sulphide	250 (5)		28.77	30.59	17.75				 	66.10	39.40		 	-			22.02	1	65.17	148.15	17.92	21.67	111.97	1	1	14.50	8.05
Calcium			320.00							503.00							305.55		317.00	339.00	233.00	229.00	323.00			239.00	182.00
Potassium			44.13	52.79	51.89					25.90	33.00						37.47		22.98	25.91	61.59	40.39	24.30			239.00	128.00
Magnesium Sodium	200/5)	-	38.52 63.65	38.93 68.07	39.80 61.23		 		+	75.90 642.00	68.30 446.00		 				62.16 349.22	1	57.95 319.00	57.18 244.00	66.69 331.00	54.09 301.00	49.20 275.00	1	1	148.00 503.00	72.80 242.00
Biochemical Oxygen Demand	200(3)	-	2.5	2.5	4.8		l		25.0			7.7		-			13.0	1	6.6	12.0	15.0	9.0	21.0	1		303.00	25.0
Chemical Oxygen Demand			46	51	56				1725			179					237		36	152	57	48	178				386
Conductivity Total Oxidisable Nitrogen		\rightarrow	1948 0.15	1990 0.15	2066 0.15				5730 0.15			4290 0.15	 				3560 0.15	-	3310 0.15	3280 0.15	3650 0.15	3300 0.15	2928 0.15	-	1	6747 0.03	
Total Oxidisable Nitrogen Total Phosphorus	<u> </u>		0.13	0.13	0.125				1.57			0.15					0.49		0.125	0.125	0.13	0.15	0.15			0.03	1.61

- The Water Famework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Famework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Famework Directive (Priority Substances and Classification) Regulation (Northern Ireland) 2015 Transitional waters.
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- MAC. This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EQS), Where the MAC EQS are marked as "not applicable", the AA-EQS values are considered protective against abort term pollution peaks in continuous discharges since they are significantly lower than the values defined on the basic of acute

- Note: CODDonalable derived us the Metal Board bilding Assessment Tool (M-ATT) developed by WFTTAL Look at recorder specific assessment using the M-DATA (M-DATA) and the Metal Board bilding assessment Tool (M-ATT) developed by WFTTAL Look at recorder specific assessment using the M-DATA (M-DATA) and the Metal Board bilding assessment Tool (M-ATT) developed by WFTTAL Look at recorder specific assessment using the M-DATA Tool with put Look and Look at recorder specific assessment using the M-DATA Tool with put Look and Look below the Enterference to as the Profit Control of the Profit Contr

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)						BH207													
HEAVY METALS	μg/I	12/01/2018	22/02/2018	17/04/2018 27/0	6/2018 03/07/201	03/10/2018	16/10/2018	09/01/2019 17/01/	11/04/2019	29/04/2019	05/07/2019 09/07/2019	15/10/2019	24/10/2019 06/10/2020	15/04/2021	02/08/2021	02/11/2021	31/01/2022 20/07/20	16 09/08/2016	08/04/2019	11/04/2019	3/07/2019 05/07/2019
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)	10.00		1	0.00	10.00		10.00	10.00		10.00	10.00	10.00	1.49	3.07	2.49	2.75			10.00	10.00
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l	1.000			.000	1.000		1.000	1.000		1.000	1.000	1.000			0.025	0.025			1.000	1.000
Chromium (diss.filt)	50 (5)	2.500 34.94 23.900			.640 I.400	2.500 11.800		2.500 22.600	2.500		10.100	8.570	1.990 2.500	1.830 0.125	2.656 0.500	1.750 0.125	1.840 0.125			0.250 2.500	3.700 17.400
Copper (diss.filt) Iron (diss.)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (1&2)	34.94 23.900 36900			300	25600		22.600	23200		25700	8.570 26600	2.500	22500	25600	14457	29700			3270	37000
Mercury (diss.fit)	0.07 MAC (1&2)				300	23000		0.0025	0.0025		0.0025	0.0025	0.0025	0.0025	0.0025		0.0025			0.0025	0.0025
Manganese (diss.filt)	123 (AA) (*** *****************************	276.92 1670		1	090	1810		1330	1360		1340	1420	1725.81155	1 1521.86651	1609.945461		1669.823829			2290	5140
Molybdenum (diss.filt) Nickel (diss.filt)	70 (8) ? 4(MAC) (182)	14.98 57.50						34.90			25.70	23.80		7.74		12.30	10.30			11.00	20.30
Lead (diss.filt)	1.2(MAC) (1AA) (1), 8.6 (AA) (2), 34 (MAC) (1&2)	9.64 10			10	22.50		34.90 10	10		10	23.80	15.61	0.125	0.125	0.125				10	20.30
Antimony (diss.filt)	5 (5)													0.123	0.113	0.123	0.113				
	10(5)	10											0.10	0.21	0.24	0.22	0.10			0.50	0.50
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC	37.15 9.13	74400	73900	5.90 39600	5.23		8.67	5.62		5.37	6.17	4.88	0.50 54600	2.96 62900	0.50	0.50 54200			9.95	12.70
Iron (Total) Manganese (Total)			2143.926884		39600 1200					_		_			1781.211981						
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)												1.99	1.83	2.70	1.75	1.80			0.25	1.85
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)												0.025	0.050	0.025	0.025				0.025	0.025
Aluminium (diss.filt) Vanadium (diss.filt)		20			61	20		52	20		20	20	20	20 0.283	0.578	20 0.368	0.340			20	20
Phenols	ug/I												2.000	0.263	U.376	0.308	0.340				
Phenois, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2)							70.0)	22.50	1220.00		22.50 640.00	490.00	22.50	480.00	22.50		22.50		22.50
Speciated TPH	ug/l																				
Aliphatics EC CS-C6	15000 (7)	 	+	+		+	1	10	_	10	10	+	10 10	10	10	10	10	_	10		10
FC>C6-C8	15000 (7) 15000 (7) 300 (7)	 	t			+	1	10		12.5	10 12.5	1	10 10	12.5	12.5	12.5			12.5		12.5
FC>C8-C10								7.5		7.5	7.5		7.5 7.5	7.5	7.5	7.5	7.5		7.5		7.5
EC>C10-C12 EC>C12-C16	300 (7)							20		80	330		5						5		40
EC>C12-C16 FC>C16-C21	300 (7)	-						5 20		5	10 20		5	_					5		5
EC>C21-C35								40		50	310		5						5		10
EC>C35-C44								5		5	30		5						5		5
Aromatics FC CS-C7	10 (7)							1		1					5.712				1		1
EC-C7-C8	700 (7)	-						2.5		2.5	5.3 65		2.4 3.73 10.6 18.2	3.832	46.211		4.451 9.239		2.5		2.5
EC>C8-C10	300 (7)							2.5		2.5	65		10.0 10.2	27.053	40.211	9.576	0.229		25		2.5
EC>C10-C12	90 (7)							20 40		80 150	330		5						5		40
EC>C12-C16 EC>C16-C21	90 (7)										610								5		120
EC-C1-C35		-						50 20		170 90	510 320		5	_					20		180 60
	90 (7) 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 58th%lie (380) (1), 74 (AA) 58th%lie (370) (2)							4.0		0.50	5.30		2.40 3.23	3.62	4.98	3.75	4.07		0.50		1.50
Benzene Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)							7.7		0.50	0.50		0.50 0.50	0.50	0.50	0.50	0.50		0.50		0.50 0.50
Ethylbenzene p/m-Xvlene	300 (8)							24.5		0.50	24.40		0.50 2.11	3.60	7.17 35.31		0.50 6.49		0.50		
o-Xylene								23.6		0.50	30.40 10.20	_	7.00 14.60 3.60 1.03	23.24 0.50	3.00	7.84 0.50	0.50		1.00 0.50		1.00 0.50
Sum of detected Xylenes	500 (8)										40.60		10.60 15.60	24.04	38.32	8.54	6.88				1.50
Polyaromatic Hydrocabons	μg/l							0.57		3.518	0.016								0.054		0.066
Naphthalene (aq) Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)							0.52		3.518 0.067	0.016		6.955 1.109 0.151 0.041	1.137	1.161	0.116	0.638		0.054		0.066
Acenaphthene (aq)								0.12		0.502	0.049		0.485 0.155	0.079	0.128	0.043			0.011		0.021
Fluorene (aq)	-							0.17		0.475	0.080		0.431 0.137	0.053		0.030	0.096		0.020		0.038
Phenanthrene (aq)	0.1 (AA & MAC) (1 & 2)							0.52		0.631	0.273		0.776 0.425 0.112 0.090	0.147	0.131 0.085	0.024	0.157		0.022		0.063
Anthracene (aq) Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)							0.12	2	0.114	0.090 0.406	_	0.112 0.090 0.684 0.443	0.017	0.085	0.014	0.020 0.187		0.003		0.016
Pyrene (aq)	-							1.23		0.549	0.385		0.662 0.391	0.025	0.036	0.045	0.158		0.006		0.022
Benzo(a)anthracene (aq)	-							1.68	3	0.186	0.156		0.130 0.146	0.006	0.010	0.011	0.082		0.001		0.002
Chrysene (ag) Benzo(b)fluoranthene (ag)	0.017 (MAC) (182)		-			+	-	1.68	3	0.258 0.446	0.224	-	0.183 0.236 0.117 0.171	0.012 0.007	0.018	0.012	0.090		0.002		0.016 0.019
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.00017 (AA) (18.2) MAC (0.27 (1) 0.027 (2))		f -	1 - 1 -		1	1			0.446	0.260 0.147	1 1	0.117 0.171 0.094 0.100	0.007	0.022	0.012	0.075	_	0.001		0.013
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))							1.73		0.265	0.179		0.084 0.191	0.010	0.023	0.012	0.109		0.001		0.008
Indeno(1,2,3-cd)pyrene (aq)						1		1.30		0.370	0.291		0.138 0.153	0.010	0.026	0.019	0.060		0.002		0.002
Dibenzo(a,h)anthracene (aq) Benzo(q,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	 	+	+		+	1	0.61 1.22		0.028	0.045 0.282	+	0.044 0.019 0.097 0.121	0.002	0.002			_	0.002		0.004
INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC)(2)					1		1.22		0.274	0.202		3.121	0.005	0.040	0.003	0.030		VANA		
Dissolved Organic Carbon				70.2	88.4		33.4	52		39.9	56.1		46 40.6	37			35.1 83		4.3		21.3
pH	6 - 9 (2&4)			6.9	6.9	1	7.1	6.8		6.8	6.9		7.4 6.7	6.7	6.7	6.7	6.7 6.8		6.7		7
Akalinity (Total) Chloride	250 (5)	 	 	1933	2228	+	1129	179 16:	,	1599	1682 130	+ +	1710 1387 131 78	1123	1541 110	1251	1203 930 45 45	2300	153 28		609 25
Ammoniacal Nitrogen	250 (5)	1 1	211	225	274	1	109	26:		185	191	1	177.5 3.53	128.01	157.6	125.4	130.21 0.6	1.2	5.61		40
Nitrite				0.015	0.009		0.008	26: 0.00	В	0.01	0.01		0.01 0.01	0.01	0.01	0.01	0.01 0.01	0.01	0.06		0.01
Nitrate	50 (5) 250 (5)			0.03	0.03		0.03	0.0		0.15	0.125		0.125 0.125	0.125	0.125		0.125 0.25	0.25	1.46		0.125
Sulphate Sulphide	250 (5)	7.54		1	6.60	44.30	1	17.20	7.80	+	6.72	7.38	6.21	3.16	5.27	18.88	4.08	_	1	25.40	10.00
Calcium		184.00	f -	11	16.00	174.00	1	137.00	170.00	1	193.00	181.00	177.42	169.00	219.00	202.00	183.00	_		53.00	138.00
Potassium		128.00		1	7.00	69.70		118.00	108.00		106.00	115.00	82.11	61.65	76.25	67.56	66.14			6.69	16.50
Magnesium	SAN(F)	21.80 213.00			8.00	44.50		73.10	72.20		74.00	73.70 180.00	59.17 108.75	52.37	66.53	56.47				8.65	16.60
Sodium Biochemical Oxygen Demand	200(5)	213.00	-	36.0	33.0	105.00	20.0	156.00	138.00	26.0	178.00	180.00	108.75	66.61 13.0	114.69 8.5	94.61 9.9	68.78 8.3		2.5	20.90	24.70
Chemical Oxygen Demand				581	770		40	513		287	288	l	396 484	239	49	47	48		10		50
Conductivity			1682	4058	4952		2462	390		3340	3570		3620 2950	2392	3105	2590	2484		475		1300
Total Oxidisable Nitrogen Total Phosphorus				0.03	0.03		0.03	0.0		0.15	0.15		0.15 0.15	0.15	0.15	0.15	0.15		1.52 0.125		0.15
I otal Phosphorus	1		1	2.28	1.91		0.65	1.6		0.94	1.44		1.05 1.73	0.91	0.72	0.7	0.93		0.125		0.37

The Water Framework Directive (Priority Substances and Cassification) Regulations(Northern Ireland) 2015 Freehwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations(Northern Ireland) 2015 Freehwater.
 The Cassification (Priority Substances and Cassification) Regulations(Northern Ireland) 2015 Transitional waters.
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 The Cassification (Priority Substances and Cassification) Regulation (Priority Subst

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS) where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of acceleration (Pack).

Note 1 (Optional size derived via the Metal Biosvalidability Associated Tool (M. MAT) developed by WDTAG. Look at receptor specific associated using the Matal Sociation of the Control of

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)			H208																BH209					
HEAVY METALS	μg/l		15/10/2019	21/10/2019	23/10/2019	18/02/2020	19/02/2020	08/10/2020	20/04/2021	04/08/2021	25/10/2021	24/01/2022	20/07/2016 09/08/2	016 03/10/2018	11/10/2018	07/01/2019	09/01/2019	11/04/2019	15/04/2019	03/07/2019	05/07/2019	15/10/2019	21/10/2019	18/02/2020	19/02/2020	28/09/2020
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		10.00				10.00	10.00	0.47	3.17		3.07		10.00			10.00	10.00			10.00	10.00			10.00	10.00
Cadmium (diss.filt) Chromium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		1.000 2.700				0.250	2.191 1.756	0.053 0.125	0.025		0.025 0.125		1.000 2.500	_		1.000 2.500	1.000			1.000	1.000			1.000	1.000 2.500
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94	26.800				2.500	68.930	0.472	0.500		0.125		40.400			13.200	2.500			10.300	2.500			2.500	2.500
Iron (diss.) Mercury (diss.filt)	1000 (AA) (1&2)		62700				10900	77700	1120	68400		5181		60300			24000	92			30600	9920			7250	199
	0.07 MAC (18.2) 123 (AA) (480 T008 1)	070.00	0.0025				0.0025	0.0025	0.0025	0.0025 5410		0.0025		0.0025 2810			1990	1450				1330			1380	1594.078169
Manganese (diss.filt) Molybdenum (diss.filt) Nickel (diss.filt)		276.92	2760				2460	3053.240212				1433.906949									2120	1350				
	41000 (MAC) (1), 8.6 (AA) (2), 34 (MAC) (1&2)	14.98	7.11				8.37	7.97	6.13	21.30		4.81		2.50			5.68	7.32			5.38	2.50			2.50	2.50
Lead (diss.filt)	1.2(884 1008 3) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64	10				10	10	0.125	0.125		0.125		10			10	10			10	10			10	10
Antimony (diss.fit) Selenium (diss.fit)	10(5)	10	0.50				0.50	0.22	0.10	0.24		0.10														-
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC	37.15	7.66				5.88	12.79	3.34	5.88		2.92		7.22			5.19	2.58			4.29	2.05			4.90	4.63
Iron (Total)									2048.823402	103000		6470.892			-											
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)		1.35				0.25	1.76	0.13			0.13			_											-
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.025				0.025	0.025	0.025	0.025		0.025														
Aluminium (diss.filt) Vanadium (diss.filt)			20		1		20	20 0.125	20	20		20		20	4		20	20		_	20	20			20	20
Phenois	ug/I							0.125	0.125	0.125		0.125														
Phenols, Total	7.7 (1&2) 46 (95th%ile) (1&2)				130.00	22.50		22.50	22.50	22.50		22.50														
Speciated TPH	ug/l																									
Aliphatics EC CS-C6	15000 (7)	+	+		 	10		10	10	10	10	10		_	+				+	1	+	+				+
EC>06-08 EC>08-010	15000 (7) 300 (7)					12.5		12.5	12.5	12.5	12.5	12.5														
EC>C8-C10 EC>C10-C12	300 (7) 300 (7)					7.5		7.5	7.5	7.5	7.5	7.5														
EC>C12-C16	300 (7)				5	5									_											-
EC>C16-C21	500 (1)				5	5																				
EC>C21-C35 EC>C35-C44					5	5																				
					5	5									_											-
Aromatics EC CS-C7	10 (7)					1		1	1	1	1	1														-
EC>C7-C8 EC>C8-C10	700 (7) 300 (7)					2.5		2.5	2.5	2.5	2.5	2.5														
EC>C8-C10 EC>C10-C12	300 (7) 90 (7)				5	5									_											
EC>C12-C16 EC>C16-C21	90 (7)				5	5																				-
	90 (7)				5	5																				
EC>C21-C35	90 (7) 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)				5	0.50		1.89	0.50	0.50	0.50	0.50			_											
Benzene Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)					0.50		0.50	0.50		0.50	0.50														-
Ethylbenzene	300 (8)					0.50		0.50	0.50	0.50	0.50	0.50														
p/m-Xylene n-Xylene		_				1.00 0.50		1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50									-	-				
Sum of detected Xvienes	500 (8)					1.50		1.50			1.50	1.50														-
Polyaromatic Hydrocabons	μg/l																									
Naphthalene (aq) Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)				2.263 0.247	0.249		0.100	0.013	0.054		0.017			_											
Acenaphthene (aq)					0.163	0.013		0.009	0.001	0.028		0.018			+						1	1				-
Fluorene (aq)	•				0.297	0.010		0.015	0.002	0.021		0.015														
Phenanthrene (ag) Anthracene (ag)	0.1 (AA & MAC) (1 & 2)	+	+		0.626	0.022	 	0.088	0.003	0.040		0.021		_	-				1	+	+	+				+
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)				0.142	0.003		0.035	0.003	0.011		0.013			+						1	1				-
Pyrene (aq)	-		1		0.096	0.004		0.023	0.003	0.005		0.012								1						\perp
Benzo(a)anthracene (aq) Chrysene (aq)	 	+	+		0.013	0.001	 	0.006	0.001			0.016 0.013		_	-				1	+	+	+	1			+
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)				0.028	0.001		0.005	0.001	0.004		0.014														
Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2)		1		0.005	0.001		0.004	0.001	0.001		0.017								1						\perp
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))		-		0.003	0.001		0.008	0.001	0.003		0.036 0.001		_	-			!	1	-	 	 				-
Dibenzo(a,h)anthracene (aq)	-	1	1		0.002	0.002	l	0.002	0.002	0.002		0.017			1	1				1	1	1				-
Benzo(q,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)				0.007	0.001		0.004	0.001	0.005		0.010														
INORGANICS Dissolved Organic Carbon	mg/l			27.7		6.4		16.6	3.4			,	69 79		100.4	49.1			36.6	59.4			20.7	20.8		36.3
pH	6 - 9 (2&4)			6.6		6.9		6.5	6.4	6.6		6.5	6.7 6.8		7	6.9			7	7			6.9	7		7.1
Alkalinity (Total)				674		218		538	116	469		135	940 1800		528	1294			1148	1480			749	889		1241
Chloride Ammoniacal Nitrogen	250 (5)	+	+	28 65.5	1	29 11.55	 	26 33.06	24	28 15.54		31 4.11	210 220 0.16 57	_	771 83	147 45.3			117	183 48	+	+	39 16.41	57 25.24		231 14.65
Nitrite		+	+	0.01		0.028		0.01	0.01	0.01		0.01	0.033 0.01	_	0.141	0.0025		!	0.01	0.01	+	+	0.01	0.01		0.01
Nitrate	50 (5) 250 (5)			0.125		1.54		0.125	1.7	0.125		1.62	0.25 0.25		0.03	0.03			0.15	0.125			0.125	0.125		0.125
Sulphate	250 (5)		13.40	-			23.80	9.15	25.11	5.68	-	24.72		55.20	+		122.00	75.40	-	-	51.50	160.00			92.40	17.02
Sulphide Calcium	- 		151.00	1			64.70	142.17	42.08	144.39	1	46.90		437.00	+	1	419.00	347.00	1	1	414.00	301.00			321.00	371.00
Potassium			13.50				9.14	9.30	5.95	16.73		6.80		72.40			50.70	42.60			55.90	26.30			36.00	49.70
Magnesium	200(5)		9.53				9.71	9.08	8.07	24.31		8.62		74.20			50.30	42.00			63.00	24.30			30.80	47.62
Sodium Biochemical Oxygen Demand	200(5)		22.00	5.0		1.5	19.50	15.40 17.0	19.13 2.5	23.96 8.9		19.59 1.5		176.00	14.0	5.2	115.00	104.00	6.7	7.1	138.00	44.90	6.9	7.1	63.00	112.02 3.7
Chemical Oxygen Demand Chemical Oxygen Demand		1	1	35	1	10	l	26	10	10		10			10	53		t	124	58	1	1	102	98		153
Conductivity				1470		596		1250	405	1030		452			3600	2780			2390	3170			1690	1870		2590
Total Oxidisable Nitrogen Total Phosphorus			 	0.15 1.66		1.57 0.27		0.15 1.09	1.7 0.125	0.15	-	1.62 0.125		_	0.03	0.03		-	0.15 0.26	0.15	1	1	0.15	0.15		0.15
i otai Priospriorus				1.bb		0.27		1.09	0.125	0.125		0.125	1		0.52	0.54			0.26	0.125			0.44	U.48		0.27

The Water Famework Directive (Priority Substances and Cassification) Regulations (Northern related) 2015 Freshwater.
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 The Cassification of Water (Priority Water Priority Substances) The Northern Directive (Priority Substances) and Consudewater (Priority Water Famework Directive) (England Water Water Water Water (Priority Water Famework Directive)
 The Water Water Standard ** (doubt writer wheald WTRE)
 In vitro Directive Water Standard ** (and Water Wate

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EQS, Where the MAC EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of acutedout.

Note: 1000 care label femmed via the Metall Biovaribability Assessment Tool (M-BAT) developed by WFDTAL Look at recognitor specific assessment using the M-BAT (and the Metall Biovaribability Assessment Tool (M-BAT) developed by WFDTAL Look at recognitor specific assessment using the M-BAT (and the Metall Biovaribability assessment Tool (M-BAT) developed by WFDTAL Look at recognitor specific assessment using the M-BAT (and the Metall Biovaribability assessment Tool (M-BAT) developed by WFDTAL Look at recognitor specific assessment using the M-BAT tool winsp (Look Card Look of the Self-Are Metall Biovaribability assessment tool (M-BAT) developed by WFDTAL Look at recognitor specific assessment using the M-BAT tool winsp (Look Card Look of the Self-Are Metall Biovaribability assessment using the M-BAT tool winsp (Look Card Look of the Self-Are M-BAT tool winsp (Look Card Look of the Self-Are M-BAT tool winsp (Look Card Look of the Self-Are M-BAT tool winsp (Look Card Look of the Self-Are M-BAT tool W-BAT LOOK of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Tool Card Tool Card Tool Card To

Sample Point /		MBAT PNEC																								
Determinands	TSV	(ug/l)															BH2:	0								
HEAVY METALS	μg/l		20/04/2021	04/08/2021	25/10/2021	24/01/2022	01/08/2017	17/10/2017	09/01/2018	12/01/2018	11/04/2018	17/04/2018	26/06/2018	27/06/2018 01/10/2018	03/10/2018	07/01/2019	09/01/2019 11/04/20	9 15/04/2019	02/07/2019	05/07/2019	15/10/2019	21/10/2019	18/02/2020	19/02/2020	28/09/2020	20/04/2021
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		1.85	10.00	0.00		12.50			10.00		10.00		10.00	10.00		10.00 10.00			10.00	10.00			10.00	10.00	0.17
Cadmium (diss.filt) Chromium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l 50 (5)		0.025	1.000 2.500			5.000 12.500	5.000		1.000 2.500		1.000 2.500		1.000 2.500	1.000 2.500		1.000 1.000 2.500	_		1.000	1.000	_	_	1.000	1.000 2.500	0.420 0.125
Copper (diss.filt)	1 (AA) his available (see Nois 1) (4) (see Nois 4) (5)	34.94	0.125	8.934			10.000	10.000		2.500		2.500		2.500	2.500		2.500 2.500			2.500	2.500			2.500	2.500	3.421
Imn (diss.)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (1&2)	34.54	2609	38600	935	2836	50	50		87		20		20	20		20 20			20	20			20	20	20
Mercury (diss.filt)	0.07 MAC (1&2)				700		-			-																
Manganese (diss.filt)	123 (AA) (*** now*)	276.92	1376.451457	2836.803	1441.803088	1240.560293	3950	2010		4980		5750		6370	1910		113 1270			1080	89			1020	1807.552651	3268.657998
Molybdenum (diss.filt)	70 (8) ? 4************************************	14.98												8.87	2.50											
Nickel (diss.filt) Lead (diss.filt)	1.2 ^(800 TOSE 3) (AA) (1), 8.6 (AA) (2), 34 (MAC) (182)	14.98 9.64		2.50			12.50			5.48		7.84		8.87	2.50		2.50 2.50			2.50	2.50			2.50	2.50	6.64
Antimony (diss.filt)	5 (5)	5.04	0.125	10			12.5	12.5		10		10		10	10	-	10 10	_	-	10	10			10	10	0.125
Selenium (diss.filt)	10(5)	10	0.35																							0.10
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (************************************	37.15		5.01			10.00	10.00		4.65		4.33		5.71	2.03		2.54 3.92			2.51	2.11			1.00	2.46	3.50
Iron (Total)			17600	64000		10119.0112	698	1130	467.5975166		985		586													344.5457093
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th/gile (32)		1497.41214	3180	1497.034874	1282.196647	4130	2000	4700		5770		6430													3740 0.13
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)	_	0.025											-	-	-		_	-		 					0.074
Aluminium (diss.filt)	3.7 (2.7 (1)) 3.2 (2.7 (2)) 3.2 (3.3 (2.7 (2)) 3.2 (3.3 (2		20	20	20	20	50	50		20		20		20	20		20 20			20	20			20	20	20
Vanadium (diss.filt)			0.506																							0.125
Phenois	ug/l																									
Phenois, Total Speciated TPH	7.7 (182) 46 (95th%ile) (182)																									
Aliphatics	ý.																									
Aliphatics EC CS-C6	15000 (7)	1	1	1	1										1	1 1			1	1	1	1				
EC>C6-C8 EC>C8-C10 EC>C10-C12	15000 (7) 300 (7)																									
EC>C8-C10	300 (7)																									
EC>C10-C12 EC>C12-C16	300 (7) 300 (7)	+	1	1	-					_				—	1	-	1		1		1					
FC>C16-C21	300 (7)																									
EC>C21-C35 EC>C35-C44																										
Aromatics FC CS-C7	10 (7)																									
EC>C7-08	10 (7) 700 (7)																									
EC>C8-C10	300 (7)	_	-											-	-	-		_	-		 					
EC>C10-C12	90 (7)																									
EC>C12-C16	90 (7)																									
EC>C16-C21	90 (7)																									
EC>C21-C35 Benzene	90 (7) 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)																	_		_		_	_			
Toluene	74 (AA) 95th Sile (380) (1), 74 (AA) 95th Sile (370) (2) 300 (8)	_	-											-	-	-		_	-		 					
Ethylbenzene	300 (8)																									
p/m-Xylene																										
o-Xylene Sum of detected Xylenes	500 (8)																									
Polyaromatic Hydrocabons																										
Naphthalene (aq)	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)																									
Acenaphthylene (aq)																										
Acenaphthene (aq)																										
Fluorene (aq)	•																									
Phenanthrene (aq) Anthracene (aq)	0.1 (AA & MAC) (1 & 2)	+	1	1	1										1	1 -		_	1		1	l				
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)	1	1	1	1										1	1 1			1	1	1	1				
Pyrene (aq)	111111111111111111111111111111111111111																									
Benzo(a)anthracene (aq)	-																									
Chrysene (aq) Benzo(b)fluoranthene (aq)	0.017 (MAC) (182)	+	1	-											1				1	 	1	 	-			
Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2)	+	1												1			_	1		1					
	0.017 (MAC) (182) 0.017 (MAC) (182) 0.0017 (MA) (182) 0.00017 (AA) (182) MAC (0.27 (1) 0.027 (2))	1	1	1	1										1	1 1			1	1	1	1				
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)																										
Dibenzo(a,h)anthracene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		1																1							
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2)																									
Dissolved Organic Carbon			35.7		42.1	40		5.1	3.8		3.6		2.7	3.8		3.6		4.6	3.2			4	3.1		3.4	4.1
pH	6 - 9 (2&4)		6.9	6.8	6.8	6.9	7.1	7.8	8.1		6.9		6.9	6.8		7.1		7.2	6.9			6.8	7.1		6.9	6.7
Alkalinity (Total)			1260	1633	1291	1317		255	246		227		226	249		258		271	225			261	232		236	218
Chloride Ammoniacal Nitrogen	250 (5)	+	117 38.05	243 64.1	102 44.89	112 43.4	19	15 0.26	21	\vdash	21 0.16		0.02	20	1	17	1	19	20		1	17	23		23 0.2	16 0.05
Ammoniacal Nitrogen Nitrite		+	38.05 0.01	64.1 0.01	44.89 0.01	43.4 0.01	0.02	0.26	0.009		0.16		0.02	0.02	1	0.02		0.54	0.2	 	1	0.2	0.2		0.2	0.05
Nitrate Nitrate	50 (5)	+	0.125			0.125		5.39	2.24		4.06		3.6	2.87	1	3.3		3.9	2.98	t	1	3.46	1.57		3.86	3.11
Sulphate	50 (5) 250 (5)		76.63	21.22	346.03	268.42	46.10			45.70		70.40		48.10	44.10		49.70 89.30			47.40	45.00			40.90	34.07	34.72
Sulphide	-														1						1					
Calcium			367.00	442.00	410.00	493.00	101.00	109.00		101.00		99.30		98.90	107.00	\vdash	108.00 114.00		1	94.80	105.00			93.10	96.36	89.50
Potassium Magnesium		+	50.27 49.32		54.93 53.72	54.10 54.01	9.74	18.10		10.90		10.40		8.43 9.87	11.20 8.04		13.80 17.10 8.59 11.30		1	10.60	16.40 8.39	 	-	10.70 7.67	10.83	9.20
Sodium	200(5)	+					9.26 20.50			19.50		21.70		18.50	19.00	1 -	22.00 24.30		1	18.80	22,40	 	1	7.b/ 21.10	17.74	16.80
Biochemical Oxygen Demand			2.5	10.0	2.5	9.9		2.5	2.5		2.5		1.5	1.5	-	1.5		1.5	1.5			1.5	1.5	-	1.5	2.5
Chemical Oxygen Demand			92	202	111	112		20	20		10		10	10		10		10	10			10	10		10	10
Conductivity			2638			2948	646	745	656		675		625	661		683		772	613			659	610		618	581
Total Oxidisable Nitrogen Total Phosphorus		+	0.015	0.15 0.125	0.15	0.15	3.21	5.41 0.125	2.25 0.125		4.06 0.125		3.62 0.125	2.88 0.125	1	3.3		3.9 0.125	2.98 0.125	 	1	3.46 0.125	1.57 0.125		3.86 0.125	3.11 0.125
Total Pilospiloi dS	<u> </u>		0.125	0.125	0.27	U.20		0.125	0.125		0.125		0.123	U.125	1	0.125		0.125	0.125		1	0.125	0.125		0.123	0.125

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MAC. This yearneter is the forecomment Loality Standard expressed as a maximum allowable concentration (MAC-EQS) where the MAC-EQS are marked as "not applicable", the AA-EQS subseasor considered protective against when term pollution peak in continuous discharges since they are significantly lower than the value delivers on the basis of acutetics(or).

Note:

Note: 1-Collocovalable derived via the Metal Bioavailability Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-Batt of Collocoval Colloc

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)								BH212						BH	213		BH214								
HEAVY METALS	ا/ور		04/08/2021	25/10/2021	24/01/2022	17/01/2019	29/04/2019	08/07/2019	22/10/2019	24/02/2020	12/10/2020	03/08/2021	27/10/2021	25/01/2022	10/07/2017	02/08/2017	18/10/2017	10/01/2018	10/08/2016	19/07/2017	24/10/2017	12/01/2018	21/02/2018	17/04/2018	18/04/2018	27/06/2018 04/0	/07/2018
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		10.00	0.00		10.00	10.00	10.00	10.00	10.00	10.00	2.25	2.76	2.04						12.50	10.00	10.00		10.00		10.00	
Cadmium (diss.filt) Chromium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		1.000 2.500			1.000 2.500	1.000	1.000 0.250	1.000 0.740	1.000 0.250	1.000 0.125	0.025	0.025 0.125	0.025 0.125						5.000 12.500	1.000	1.000 2.500		1.000 2.500		1.000	
Copper (diss.filt)	50 (5) 1 (AA) bioavailable ^(see Note 1) (1) ^(see Note 4) (2)	34.94	2.500			2.500	2.500	2.500	2.500	2.500	2.500	0.125	0.125	0.125						10.000	2.500	2.500		2.500		2.500 2.500	-
Iron (diss.)	1000 (AA) (1&2)	54.54	20	20	20	1660.00	108.00	20	2370	319	20	3386	20	20						3230	3310	2970		6380		908	$\overline{}$
Mercury (diss.filt)	0.07 MAC (182)					0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025													=
Manganese (diss.filt) Molyhdenum (diss.filt)	123 (AA) (**** ****************************	276.92	3458.751601	14.80121297	5	1330	1350	1600	1360	1070	1355.593863	3389.510202	1461.600881	1389.995129						1090	4540	1410		3960			\rightarrow
Nickel (diss.filt)	4 (MAC) (182)	14.98	7.08			2.50	2.50	2.50	2.50	2.50	2.50	3.39	0.58	0.54						12.50	2.50	2.50		2.50		2.50	\rightarrow
Lead (diss.filt)	1.2(MAC) (1&2)	9.64	10			10	10	10	10	10	10	0.125	0.125	0.125						12.5	10	10		10		10	=
Antimony (diss.filt) Selenium (diss.filt)	5 (5)	10					0.50	0.50	0.50	0.50	0.10	0.10	0.10	0.10												-	\rightarrow
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (100 Hours)	37.15	4.20			1.00	1.00	1.00	1.00	1.00	1.00	1.61	0.50	0.50						10.00	1.00	2.44	1	1.00		1.00	\rightarrow
Iron (Total)				604.9558082									6148.112165	17700		2610000		453000		3840	17100		3847.406367		10100		5890
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)		4080	429.3324841	1221.166127		0.70	0.25	0.37	0.25	0.12	3490 0.13	1465.879427 0.13	1450.229954 0.13		62800		10100		1090	4710		1425.058194		4040		2580
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)						0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025													\rightarrow
Aluminium (diss.filt)	1 110 1 110 1		20	20	20	20	20	20	20	20	20	20	20	20						50	50	20		20		20	=
Vanadium (diss.filt)	ug/I	_							_		0.125	0.125	0.125	0.125													
Phenois Total	7.7 (1&2) 46 (95th%ile) (1&2)					22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	25000.00												$\overline{}$
Speciated TPH	ug/l																										
Aliphatics EC CS-C6	15000 (7)	1	1 -	1 -	1	10	10	10	1	10	- 10	10	40	10	1		1		1				\vdash				\neg
EC>06-08	15000 (7)	+	1	1		10 12.5	10	10	 	10 12.5	10 12.5	10	10 12.5	10 12.5			1					+	 				\rightarrow
EC>C8-C10	300 (7)					7.5	7.5	7.5		7.5	7.5	7.5	7.5	7.5													
EC>C10-C12 EC>C12-C16	300 (7)	1	1	1		50	10	30	5	5							1						\vdash				\blacksquare
EC>C12-C16 EC>C16-C21	300 (7)					5	5	5	5	5																-	-
EC>C21-C35						5	5	60	5	5																	-
EC>C35-C44						5	5	5	5	5																	=
Aromatics FC CS-C7	10 (7)						1			1		- 1	1														-
EC>C7-C8	700 (7)					2.5	2.5	25		2.5	2.5	2.5	2.5	2.5								-					\rightarrow
EC>C8-C10	300 (7)					25	25																				
EC>C10-C12 EC>C12-C16	90 (7)					50	10	30	5	5																	
EC-C16-C21	90 (7)					120	40	90	5	5												-					$\overline{}$
EC>C21-C35	90 (7)					10	30	150	5	5																	
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)					0.50	0.50	0.50		0.50	0.50	0.50	0.50	0.50	40.00												
I oluëne Ethylhenzene	74 (AA) 90177516 (380) (1), 74 (AA) 90117516 (370) (2)		-	-		0.50	0.50	0.50		0.50	0.50	0.50	0.50	0.50	130.00 40.00		-					-	-				-
p/m-Xylene						1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	173.00												
o-Xylene	500 (8)					0.50	0.50	0.50		0.50 1.50	0.50	0.50	0.50 1.50	0.50 1.50	40.00												
Sum of detected Xylenes Polyaromatic Hydrocabons								1.50		1.50	1.50	1.50	1.50	1.50													
Naphthalene (aq)	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)					0.073	0.205	0.069	0.371	0.154	0.618	41.324	0.309	0.053	40.000												$\overline{}$
Acenaphthylene (aq)	•					0.006	0.009	0.014	0.012	0.012	0.002	1.646	0.004	0.009													
Acenaphthene (aq) Fluorene (aq)	<u> </u>					0.029	0.096	0.040	0.274	0.028	0.177 0.108	0.831	0.050	0.054								-					\rightarrow
Phenanthrene (aq)	-					0.090	0.153	0.069	0.140	0.022	0.246	0.156	0.029	0.055													\rightarrow
Anthracene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)	1	1 -	1 -		0.013	0.017	0.003	0.019	0.003	0.028	0.100	0.019	0.019			1				— —	1	-				— ∓
Fluoranthene (aq) Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)	+	1	1		0.065	0.062	0.024	0.083	0.017	0.104	0.022	0.036	0.030			1				 	+	 			+	\rightarrow
Benzo(a)anthracene (aq)	-					0.265	0.016	0.002	0.002	0.008	0.009	0.003	0.001	0.001													
Chrysene (aq)	0.017 (MAC) (18.3)	1	1 -	1 -		0.265	0.023	0.009	0.004	0.013	0.016	0.005	0.003	0.005			1				— —	1	-				
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.00017 (AA) (18.2) MAC (0.27 (1) 0.027 (2))	+	1	1			0.035	0.010	0.002	0.009	0.009	0.007	0.001	0.003			1				!	+	1			-	-
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))					0.944	0.012	0.005	0.001	0.017	0.015	0.008	0.003	0.025													
Indeno(1,2,3-cd)pyrene (aq)	-					0.087	0.003	0.001	0.003	0.014	0.011	0.009	0.002	0.001													
Dibenzo(a,h)anthracene (aq) Benzo(g,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	1	1	1	 	0.138 0.081	0.002	0.002	0.002	0.014 0.013	0.002	0.002	0.002	0.014	 		1		 		 	+	+			\longrightarrow	
INORGANICS	mg/l																										
Dissolved Organic Carbon	6 - 9 (2&4)	1	6.8	7.1	3.1 6.8	15.9 7.7	11.4	13.2	11.9 7.3	9.6	11 7.3	7.1	11.3	10.6	1	6.5	65	4836	430	6.7	7 7 4		\vdash		5.8		3.7 6.8
pH Alkalinity (Total)		1	6.8 236	7.1	6.8 242	7.2 538	7.3 535	7.2 545	7.3 446	7.6 352	7.3 401	7.1	7.4 456	7.5 425	 	6.5 17734	6.5 16484	6.9 11700	7.1 7900	6./	7.4 246	+	+		7.3 190	\longrightarrow	6.8 141
Chloride	250 (5)		19	5	15	14	18	19	12	18	19	15	18	16		3500	3610	2970	1500	26	20				21		27
Ammoniacal Nitrogen			0.2	0.2	0.2	2.91	2.99	2.91	3.04	2.49	4.43	3.05	5.23	2.12		2880	2811	2670	9.1	0.37	0.38		0.22		1.08		
Nitrite Nitrate	50 (5)	+	0.01 3.31	0.01	0.01 2.59	0.0025	0.01	0.01	0.01 0.125	0.01 0.125	0.01 0.125	0.01	0.01	0.01			1	0.075	0.01 0.25	0.01 5.63	0.011	1	 		0.006		0.019 2.87
Sulphate	50 (5) 250 (5)	1	3.51 28.80	27.88	33.68	6.01	2.11	2.50	1.21	0.125	2.61	1.25	1.42	0.125			1	0.03	0.25	14.80	18.40	24.60	1	15.30	0.62	-	4.07
Sulphide																											=
Calcium Potassium		+	94.68	92.78 10.30	102.65	155.00 10.50	176.00 10.30	195.00 11.30	158.00 9.79	130.00	153.00 9.06	171.00 8.43	174.00 8.25	158.00 7.44			1			52.90 12.50	96.20 7.36	21.50	 	70.70 7.88			\rightarrow
Magnesium Magnesium		1	9.43	4.85	8.39	13.30	13.00	14.10	10.80	8.80	9.82	12.70	9.99	9.49			1			3.52	7.02	4.54	1	5.60		-	\rightarrow
Sodium	200(5)		16.05	15.70	18.70	13.00	13.80	15.40	11.40	10.30	11.76	17.69	10.89	10.11						14.60	13.80	13.60		13.00			=
Biochemical Oxygen Demand		1	5.4	1.5	1.5 10	6.9	15.0 45	2.5	13.0 29	8.5 34	4.1	9.0 26	7.0 28	13.0			51700.0				2.5 57	1	-		1.5		2.5
Chemical Oxygen Demand Conductivity		+	10 616	10 527	10 591	30 991	45 917	35 1040	29 845	34 719	26 769	26 882	28 851	26 808		36700	79200 36900	43100 31170		421	57 572	+	394		10 470	+	10 442 2.89
Total Oxidisable Nitrogen			3.31	0.88	2.59	0.03	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15						5.64	0.88				0.83		2.89
Total Phosphorus		1	0.125	0.125	0.125	1.55	0.125	0.125	0.125	0.45	0.125	0.125	0.125	0.125			1	5.16			0.125				0.125		0.125

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Instand) 2015 Freshwater.
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 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Instand) 2015 Transitional waters.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered portective against short eem pollution peaks in continuous discharges since they are significantly lower than the values defined on the based ancatestory.

Note: CODIcional stable derived via the Metall Biovariability Assessment Tool (M-BAT) developed by WTDTAL Look at recorptor specific assessment using the M-BAT (Seveloped by WTDTAL Look at recorptor specific assessment using the M-BAT (Seveloped by WTDTAL Look at recorptor specific assessment using the M-BAT (Seveloped by WTDTAL Look at recorptor specific assessment using the M-BAT tool with place Code Calls developed by WTDTAL Code at recorptor specific assessment using the M-BAT tool with place Cancel Look before the Code Cancel Canc

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)				BH216																				
HEAVY METALS	μg/l		03/10/2018	18/10/2018 09/01/2019	10/01/2019	11/04/2019	16/04/2019	28/05/2019	31/05/2019	05/07/2019 23/07/2019	15/10/2019	29/10/2019	30/09/2020	19/04/2021	03/08/2021 0	3/11/2021 31/	1/2022 19/0	7/2017 24	1/10/2017	12/01/2018	1/02/2018	17/04/2018	18/04/2018	27/06/2018	04/07/2018 0	3/10/2018
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		10.00	10.00		10.00				10.00	10.00		10.00	2.00		0.00			10.00	10.00		10.00		10.00		10.00
Cadmium (diss.fit)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		1.000	1.000		1.000			1.000 2.500	1.000	1.000		1.000	0.025	1.000				1.000	1.000		1.000		1.000		1.000 2.500
Chromium (diss.filt) Copper (diss.filt)	50 (5)	34.94	2.500 2.500	2.500 2.500		2.500			2.500	2.500	2.500		2.500 2.500	0.125 0.897	2.500 2.500		12	500	2.500	2.500 2.500		2.500 2.500		2.500 2.500		2.500
Iron (diss.)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (ΔΔ) (18-2)	34.94	6570	2730		3230			3240	5010	2780		2202	2968	1001	437	1645		259	4700		766		736		1300
Mercury (diss.filt)	0.07 MAC (1&2)								0.0025																	
Manganese (diss.filt)	123 (AA) (*********************************	276.92	3000	8550		4100			2120	2310	5670		3095.665025	3126.046335	1175.817096 2	227.500661 358	291256 2	20	3200	2250		3810		1660		6160
Molybdenum (diss.filt)	70 (8) ?	14.98				5.90			2.50		6.27		250					SO.	10.30			7.56		5.88		9.25
Nickel (diss.filt) Lead (diss.filt)	4)************************************	14.98 9.64	14.10	13.00					2.50	2.50			2.50	3.71	2.50		1	.50	10.30	6.22		7.56		5.88		9.25 10
Antimony (diss.filt)	5 (5)	5.04	10	10		10			10	10	10		10	0.125	-10				10	10		10				
Selenium (diss.filt)	10(5)	10											0.00	0.23												
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (MAX (AB) (2) +ABC (MAX (AB) (AB) (AB) (AB) (AB) (AB) (AB) (AB)	37.15	4.50	4.11		3.28			1.00	1.00	1.00		2.28	1.14	1.00				1.00	1.00		1.00		1.00		1.00
Iron (Total)														24600	2079.944301 2				691.20175		37100		71900		2860	
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)											_		3390 0.13	1201.786767 2	304.584434	166U 6	180	3840		2980		7100	-	1730	-
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th %ile) (2)													0.050					_					-		
Aluminium (diss.filt)			20	20		20			20	20	20		20	20	20	20	20	i0	50	20		20		20		20
Vanadium (diss.filt)														0.125										\Box		
Phenois	ug/l 7.7 (1&2) 46 (95th%ile) (1&2)																							_	_	_
Phenols, Total Speciated TPH	7.7 (182) 46 (95th/sile) (182) ug/l	1 -	t —									1														
Aliphatics EC CS-C6	, , , , , , , , , , , , , , , , , , ,																									
EC CS-C6	15000 (7)																									=
EC>C6-C8	15000 (7) 300 (7)	1	-		1	1					+	1	-	1									-			
EC>C8-C10 EC>C10-C12	300 (7)	1	1		1	1			+			1	1	1	-	-		_	-						+	-
EC>C12-C16 EC>C16-C21	300 (7)	1	1		1	1					1	1	1	1												$\overline{}$
EC>C16-C21																										
EC>C21-C35 EC>C35-C44																										
																		_	_						+	$\overline{}$
Aromatics EC CS-C7	10 (7)																									
EC>C7-C8	700 (7)																									
EC>C8-C10 EC>C10-C12	300 (7) 90 (7)																									
EC>C10-C12 EC>C12-C16	90 (7)																									
EC>C16-C21	90 (7)	-																_						+		
EC>C21-C35	90 (7)																									
Benzene																										
Toluene Ethylbenzene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2) 300 (8)																									
p/m-Xvlene	300 (6)				 	-			-		+			-					-		-				+	
o-Xvlene																										
Sum of detected Xvlenes	500 (8)																									
Polyaromatic Hydrocabons	μη/l 2 (AA) (1 &2) 130 (MAC 1&2)																									_
Naphthalene (aq) Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)				 	-			-		+			-					-		-				+	$\overline{}$
Acenaphthene (aq)																										
Fluorene (aq)																								\vdash		
Phenanthrene (aq) Anthracene (aq)	0.1 (AA & MAC) (1 & 2)																	_								
Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)	+	1		1	1					+	+		1						-				+	-+	-
Pyrene (aq)	-		i e								1	1														
Benzo(a)anthracene (aq)	-																									=
Chrysene (aq) Benzo(h)fluoranthene (an)	0.017 (MAC) (182)	-	-		-	1					+	 		1				_	-					+		-
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.00017 (AA) (18.2) MAC (0.27 (1) 0.027 (2))	t	t		1	1					+	+		1	-			-		-			l	+	-+	-
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))																									
Indeno(1,2,3-cd)pyrene (aq)					1	1								1												
Dibenzo(a,h)anthracene (aq) Benzo(q,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	 	-		1	1					+	 	-	1				_								
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2) mg/l										_															
Dissolved Organic Carbon				4.6	6		7	4.5		5.1		7.4	2.6	5.9		8	7		68.8				59.9		59.9	
pH	6 - 9 (2&4)			6.7	7.1		6.8	7		7.2		7	7.3	6.9	6.7				7.5				7.9		7.4	
Alkalinity (Total)	250 (5)	 	-	140 27	169 25	1	174	139		142	+	204	150 41	184	111 29		188		487				430		301	
Chloride Ammoniacal Nitrogen	250 (5)	1	1	27 5 ng	0.35	1	0.48	30 0.52	+	31 052	+	0.2	41 0.2	0.42	29 0.2				14		635		34 12.1		49	-
Nitrite		1		0.007	0.0025	1	0.01	0.01		0.01	+	0.01	0.02	0.01	0.032				0.0025				0.009	-	0.009	$\overline{}$
Nitrate	50 (5) 250 (5)			1.87	1.75		1.3	4.8		4.1		1.5	3.99	1.62		1.35	3.02	.63	0.03				0.14		0.32	
Sulphate	250 (5)		256.00	107.00		44.70			25.50	22.30	48.90		25.12	19.32	20.64	95.36	9.17	3.00	437.00	52.70		437.00		175.00		439.00
Sulphide Calcium		1	144.00	97.20	1	76.60			63.80	64.30	93.80	1	64.78	75.94	57.05	94.56	4.17 25	0.00	318.00	93.40		292.00	-	145.00		284.00
Potassium		+	12.30	7.55	1	76.60 8.18			10.30	10.60	6.59	+	8.42	75.94 6.90					20.70	93.40 13.80		16.60		145.00	-+	19.90
Magnesium			9.82	6.93		5.98			5.19	5.11	6.47	1	5.20	5.08	4.83	6.25	5.24 1	.80	16.00	7.39		15.20		7.74		19.90 17.90
Sodium	200(5)		19.80	14.70		15.00			15.20	15.10	14.60		14.91	14.47		17.28		.30	60.50	22.30		54.60		52.80		62.50
Biochemical Oxygen Demand		 	-	1.5	1.5	1	1.5	1.5		1.5	+	1.5	1.5	2.5	2.5		1.5	_	3.1				2.5		2.5	
Chemical Oxygen Demand Conductivity		1	1	833	1368	1	10 527	10 465	+	10 471		10 584	10 466	10 484					176 1788		684		150 1592		161	-
Total Oxidisable Nitrogen		t	t	188	1.75	1	1.3	4.8		4.1	+	1.5	4.01	1.62	6.68	1.35		64	0.03		207		0.15	+	0.33	
Total Phosphorus				0.125	0.125		0.125	0.125		0.125		0.125	0.125	0.125	0.125		.125		0.26				0.83		0.35	

The Water Framework Directive (Proutly Substances and Cassification) Regulations (Northern lestand) 2015 Freshwater.
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 The Cassification (Proutly Substances and Cassification) Regulations (Northern lestand) 2015 Francisconal waters.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-KDS, Where the MAC-KDS are marked as "not applicable", the AA-KDS values are considered protective against short term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of acutedout production.

Note:

Note: 1 - (Colocional sizio de riveri via 1 - (March 1 - (March 1 - (March 2 - (M

		1																					
Sample Point / Determinands	TSV	MBAT PNEC (ug/l)		8H217																			
HEAVY METALS	μg/l	18/10/2018	09/01/2019	10/01/2019 11/04/2019	16/04/2019	28/05/2019	31/05/2019	05/07/2019	23/07/2019 15/10	2019 29/10/201	19 30/09/2020	19/04/2021	03/08/2021	03/11/2021 3	1/01/2022 25/	10/2017 12	/01/2018 21/02	/2018 17/04/2018	18/04/2018	27/06/2018	04/07/2018 1	7/10/2018	18/10/2018 09/01/2019
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		10.00	10.00			10.00	10.00	10.	0	10.00	12.81	10.00	0.00		10.00	10.00	10.00		10.00			10.00
Cadmium (diss.filt) Chromium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		1.000 2.500	1.000			1.000 2.500	1.000	1.0	0	1.000 2.500	0.025	1.000 2.500				1.000 10.500	1.000 8.130		1.000 7.200		+	1.000 2.500
Copper (diss.filt)	1 (AA) bioavailable (tes Note 1) (1) (tes Note 4) (2) 1000 (ΔΔ) (182)	34.94	6.410	2.500			2.500	2.500	2.5	0	2.500	0.125	2.500			2.500	2.500	2.500		2.500		_	2.500
Iron (diss.)	1000 (AA) (182)		14300	936			280	464	14		333	336	575	244			1720	1450		1220			4000
Mercury (diss.filt)	0.07 MAC (182) 123 (AA) (MADDE 1)	276.92					0.0025		61	_	2949 978559									738		-	
Manganese (diss.filt) Molybdenum (diss.filt)	70 (8) 2		8520	4550		_	1630	1900			2949.978559	6510	2225.854844	7270	6020	602	/51	/55				-+	1460
Nickel (diss.filt)	4 ^(MAC) (AA) (1), 8.6 (AA) (2), 34 (MAC) (1&2)	14.98	2.50	5.59			2.50	5.46	2.5)	2.50	2.77	2.50			50.30	74.10	79.60		68.40			35.40
Lead (diss.filt) Antimony (diss.filt)	1.2(MBR TOUR 3) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64	10	10		-	10	10	- 1		10	0.125	10			10	10	10	_	10		-	10
Selenium (diss.filt)	10(5)	10										0.91										-	
Zinc (diss.filt)	10(5) 10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC	10 37.15	4.40	1.00			1.00	1.00	1.0)	1.00	0.50	1.00				3.83	12.80		7.52			2.36
Iron (Total)													1112.852408 2247.476013			26100 0.914819	964		235000 8850		17500 925		
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)											0.56	2247.470023	7300	0320 200	0.514015		20	00.00		32.3	-	
Chromium VI (diss.fit)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)											0.050											
Aluminium (diss.filt) Vanadium (diss.filt)			20	20			20	20	2		20	20	20	20	20	50	42	50		41			20
Phenols	ug/l											2.702											
Phenols, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2)																						
Speciated TPH Aliohatics	ug/l																						
Aliphatics EC CS-C6	15000 (7)	 	1		+	+	1	1		_	-	1	1 1				1	0	10	1	10	10	
EC>C6-C8 EC>C9-C10	15000 (7) 300 (7)																12		12.5			12.5	
EC>C8-C10 EC>C10-C12																	7	.5	7.5 5		7.5	7.5 540	
EC>C12-C16	300 (7) 300 (7)																	5	5		30	5	
EC>C16-C21																			120		211	5	
EC>C21-C35 EC>C35-C44																	4	18	763 114		2480 312	580 5	
Aromatics FC CS-C7												1							114	1	312	-3	
	10 (7) 700 (7)																		1		1	1	
EC>C7-C8 EC>C8-C10	700 (7)																2		2.5		2.5	2.5 25	
FC>C10-C12	90 (7)																2	5	5		25 5	540 600	
EC>C12-C16	90 (7)																	8	5		50		
EC>C16-C21 EC>C21-C35	90 (7)																	5	5		39 40	770	
	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)																-				40	220	
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%le (380) (1), 74 (AA) 95th%le (370) (2)																						
Ethylbenzene p/m-Xylene	300 (8)																						
o-Xylene																						-	
Sum of detected Xvlenes	500 (8)																						
Polyaromatic Hydrocabons Naphthalene (aq)	µg/l 2 (AA) (1 &2) 130 (MAC 1&2)																0.0	04	0.981		0.004	0.262	
Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)					_						-	_				0.0		0.020	-	0.002	0.014	
Acenaphthene (aq)																	0.0		0.293			0.253	
Fluorene (aq) Phenanthrene (aq)																	0.0		0.092			0.141	
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)																0.0		0.012		0.003	0.012	
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)																0.0	101	0.037		0.001	0.095	
Pyrene (aq) Benzo(a)anthracene (aq)	<u> </u>		1		1	+	1	-		_	_	+	+				0.0		0.049	+		0.122 0.045	
Chrysene (aq)	<u> </u>							<u> </u>									0.0	101	0.029		0.001	0.045	
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)		1		1	1	1					1	$\perp = $				0.0	101	0.029	1	0.001	0.031	
Benzo(k)fluoranthene (ag)	0.017 (MAC) (1&2) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	-	1		+	+	1	+		_	-	+	+				0.0		0.029	+	0.001	0.031	
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	() () Proc (a.z. (2) a.az. (2))																0.0	101	0.012		0.001	0.010	
Dibenzo(a,h)anthracene (aq)	- 0.0082 (MAC)(1) & 0.00082 (MAC) (2)																0.0	102	0.002 0.017		0.002 0.001	0.002	
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2) mg/l				_	_	_	_									0.0	U1	0.017	_	0.001	0.014	
Dissolved Organic Carbon		43.3		35.6	54.6	17.5			46.5	48.1	30.8	40.8			44.5	244.8	36	57	275		253		37.4
pH	6 - 9 (2&4)	7.4	L	6.9	7.5	7.6	1		7.8	7.7	7.4	7.6	7.5	7.6	7.6	7.3	7.	.2	7.4		7.2		7.4
Alkalinity (Total) Chloride	250 (5)	400	1	539	426 35	190 30	+	1	344 45	532 35	508 83	444	337 45	382		3384 638	37 81		3583 808	1	3351 758	-	3965 916
Ammoniacal Nitrogen	200(5)	9.08	1	8.38	12	3.4	1	1	8.6	11.18	13.38	8.26	8.53	9.02	11.36	513	56	52	537	1	499		638
Nitrite Nitrate		0.015		0.0025	0.01	0.05			0.06	0.01	0.01	0.01	0.038	0.01		0.01	0.0		0.013		0.015		0.025
Nitrate Sulphate	50 (5) 250 (5)	0.35	174.00	0.03 217.00	0.15	3.1	59.60	86.30	0.93	0.125	0.125 71.49	0.125 167.15	0.85 16.90			0.03 36.90	56.10	49.90	0.03	45.40	0.03	-	0.03 43.00
Sulphide	200(5)				1	1	33.00					207.25	10.30	-11.71					1		1	_	
Calcium			228.00	203.00			87.10	124.00	239		174.00	216.00	102.35				145.00	135.00		135.00			152.00
Potassium Magnesium		+	15.00 16.90	15.30	+	+	10.80	14.10 8.20	15.		17.06	12.62				141.00	472.00 161.00	451.00 155.00		418.00 150.00	 	-	299.00
Sodium	200(S)	 	39.50	52.00	+	+	27.30	41.50	48.		49.45	41.64					692.00	668.00		594.00	1 -	-	394.00
Biochemical Oxygen Demand		2.5		11.0	2.5	1.5			2.1	2.7	2.5	2.5	2.5	5.7		33.0	45		57.0		38.0		64.0
Chemical Oxygen Demand Conductivity		107	1	57 672	138	40 622	1	1	117 986	115	154	91	119 814	79 1590		774 8367	93		948 8698	 	912 8378	-	1386 9873
Total Oxidisable Nitrogen Total Phosphorus		0.36		0.03	0.15	3.1		1	0.99	0.15	0.15	0.15	0.89	0.15	0.15	0.03	0.	03	0.03	1	0.03	-	0.08
Total Phosphorus		0.125		0.26	0.125	0.125			0.125	0.25	0.28	0.125	0.26	0.29	0.125	2.25	2.	46	4.41		1.8	$=$ \perp	1.78

The Water Framework Directive (Pricetty Substances and Casardication) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Framework Directive (Pricetty Substances and Casardication) Regulations (Northern Ireland) 2015 Freshwater.
 The Casardication (Pricetty Substances and Casardication) Regulations (Northern Ireland) 2015 Transitional water.
 The Casardication (Pricetty)

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of cuterbooks.

Next = COCK and Cit is derive a TCS referred to a to the PEC. Sciolard. They fewer widely explained control from the Cock and Cit is derive a TCS referred to a to the PEC. Sciolard. They fewer widely explained control from the Cock and Cit is derive a TCS referred to a to the PEC. Sciolard. They fewer widely explained control from the Cock and Cit is derive a TCS referred to a to the PEC. Sciolard. They fewer widely explained control from the Med III devalability is assument. Tool the ADI TCS referred to the PEC. Sciolard Cock and City of the Cock a

Sample Point /		MBAT PNEC																								
Determinands	TSV	(ug/l)		Bł	1218																				BH219	
HEAVY METALS	µg/l		23/01/2019	11/04/2019	16/04/2019 05/07/	23/07/2019	15/10/2019	29/10/2019	19/02/2020	04/03/2020	06/10/2020	19/04/2021	03/08/2021	03/11/2021	31/01/2022	12/01/2018	22/02/2018	17/04/2018	03/10/2018	17/10/2018	09/01/2019	11/04/2019	17/04/2019	05/07/2019 1	/07/2019 15/	10/2019 24/2
Arsenic (diss.filt) Cadmium (diss.filt)	50 (AA) (1) 25 (AA (2) 0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l			10.00	10.0		10.00		10.00		10.00	10.63	10.00	0.00		10.00		10.00	10.00		10.00	10.00		10.00		10.00
Chromium (diss.filt)	50 (5)						1.000		1.000		8.085	8.476	9.735			2.500		2.500	1.000		2.500	1.000		1.000		
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (1&2)	34.94		2.500	6.0		2.500		2.500		2.500	0.386	2.500			27.100		35.500			2.500	14.400		17.500		22.900
Iron (diss.) Mercury (diss.fit)	1000 (AA) (1&2) 0.07 MAC (1&2)			6750	152	00	676		6750		882	1896	1905	985	1576	42100		45400			12400	29900		34300	-	65100
Manganese (diss.filt)	123 (AA) (*********************************	276.92		926	89	0	838		1020		796.8800836	811.7856063	832.23931	767.8785978	805.3980711	9600		9630	8440		6420	8880		8430		9640
Molybdenum (diss.filt)	70 (8) ? 4)*******************(AA) (1), 8.6 (AA) (2), 34 (MAC) (1&2)	14 98		60.20	45.0				83.30		E0 21	62.40				2.50								2.50		2.50
Nickel (diss.filt) Lead (diss.filt)	1.2(MAC) (1), 8.6 (AA) (2), 34 (MAC) (1&2)	14.98 9.64		60.20 10	45.1	60	40.20		83.30 10		58.31 10	0.125	65.38	0.00		2.50		2.50 10	2.50 10		2.50	2.50 10		2.50		2.50
Antimony (diss.filt)	5 (5)					_																				
Selenium (diss.filt) Zinc (diss.filt)	10(5) 10.9 (AA) (1) +ABC bloavallable 6.8 (AA) (2) +ABC (MR MONT 2)	10 37.15		4.57	3.3	-	2.63				0.00 5.34	1.54							8.08		8.06	6.79		4.29		7.75
Iron (Total)	10.5 (AA) (1) +ABC bloavallable 6.6 (AA) (2) +ABC	37.10		4.57	3.3	18	2.63		2.88		5.34	37100	2.92 24600	25500	24200	7.65	63800	7.65 55600	8.08		8.06	6.79		4.29		7.75
Manganese (Total) Chromium III (diss.filt)													931.5017737				10000	9880								
Chromium III (diss.fit) Chromium VI (diss.fit)	4.7 (AA) (1) 95th%ile (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)											8.48 0.050														
Aluminium (diss.filt)	0.4 (AA) (1), 0.0 (AA) (2), 02 (3001 MIC) (2)			43	20)	20		49		20	45.99903605	20	20	40.24189044	20		20	20		20	20		20		20
Vanadium (diss.filt)												6.601														
Phenois Phenois, Total	ug/l 7.7 (182) 46 (95thfüle) (182)									<u> </u>	22 SD															
Speciated TPH Aliphatics EC CS-C6	ug/l										2230															
Aliphatics FC CS-CS	15000 (7)	1	- 10		40	40				40	- 10	10		- 10	10											
EC>06-08	15000 (7)	+	10	 	10 12.5	10 12.5	-	10		10 12.5	10	10 12.5	10 12.5	10	10									 		-+
EC>C8-C10	300 (7)		7.5		7.5	7.5		7.5		7.5	7.5	7.5	7.5	7.5	7.5											
EC>C10-C12 EC>C12-C16	300 (7) 300 (7)		240	-	290 410	190		5	 	5			 													-+
EC>C16-C21	300 (1)		30		570	600		5		5																
EC-C21-C35 EC-C35-C44			70		220	770		5		560																
			5		5	5		5		5																
Aromatics EC CS-C7	10 (7)		1		1	7.2		3.8		4.59	5.94	7.959	7.092	2.414	6.707											
EC>C7-C8 EC>C8-C10	700 (7) 300 (7)		2.5		2.5	47.6		39.2		26.6	35.9	40.632	39.736	12.284	37.12											
FC>C10-C12	90 (7)		25 240		25 290	190		5		5									-							+-
EC>C12-C16	90 (7)		190		5	320		5		5																
EC>C16-C21 EC>C21-C35	90 (7) 90 (7)		280		60	40 5		5		5																
	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		20		0.50	4.30		3.80		4.59	4.66	6.55	5.70	1.99	5.37											
Benzene Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)				0.50	2.90 6.90		0.50		0.50	1.28	1.41	1.40	0.50	1.34											
Ethylbenzene p/m-Xylene	300 (8)				0.50 1.00	6.90 23.80		15.10 13.40		4.39 11.90	7.16 16.30	8.28 18.36	8.51 17.29	0.50 6.61	7.05 17.55				-							+-
o-Xylene					0.50	14.00		10.70		10.30	11.20	12.59	12.55	4.53	11.18											
Sum of detected Xylenes Polyaromatic Hydrocabons	500 (8)					37.80		24.10		22.20	27.40	30.95	29.83	11.14	28.73											
Naphthalene (aq)	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)		0.976		2.048	0.041		10.387		0.052	3,637	1.448	6.203	0.083	0.560											
Acenaphthylene (aq)	***************************************		0.012		0.043	0.037		0.119		0.003	0.002	0.015	0.410	0.014	0.011											
Acenaphthene (aq) Fluorene (aq)	<u> </u>		0.189		0.530 0.261	0.361 0.196		1.744 0.751		0.013	0.867	0.091	0.352	0.025												
Phenanthrene (aq)	-		0.168		0.316	0.215		0.797		0.003	0.600	0.124	0.155	0.105	0.095											
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)	1	0.020		0.031	0.033		0.080		0.003	0.207	0.032	0.102	0.067	0.052					_						
Fluoranthene (aq) Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)		0.091	-	0.104	0.097		0.226		0.002	0.230	0.062	0.055	0.051	0.048											-+
Benzo(a)anthracene (aq)	-		0.150		0.026	0.020		0.033		0.001	0.084	0.016	0.011	0.047	0.011											
Chrysene (aq) Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)		0.150	1	0.034	0.037 0.040		0.050 0.022		0.001	0.164	0.028	0.022	0.016	0.016											-+
Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2)			1	0.006	0.016		0.020		0.001	0.079	0.014	0.011	0.004	0.009											-
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))		0.603		0.019	0.024		0.020		0.001	0.167	0.019	0.023	0.013	0.016											
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq)	+ :	+ +	0.073	1 - 1	0.040	0.036		0.016		0.001	0.084	0.020	0.012	0.010	0.014				1							+-
Benzo(g.h.i)pervlene (ag)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		0.106 0.068		0.007 0.036	0.052 0.053		0.005 0.012		0.001	0.020 0.037	0.021	0.002 0.013	0.004	0.011											
INORGANICS Dissolved Organic Carbon	mg/l	1	359		272.7	369.2		178		365	300	316.5		199.6	281.8			14.1		30.2	17.6		13.4		17.8	2
Dissolved Organic Carbon pH	6 - 9 (2&4)	1 1	7.1	1 1	7.2	7.3		7		7.2	7.1	7.2	7.2	7.2	7.1			7.3	1	7	7.1		7		6.9	
Alkalinity (Total)			2731		3542	3070		2753		4552	3498	5000	4440	3198	4247			952		1107	887		947		1093	1
Chloride Ammoniacal Nitrogen	250 (5)	_	466 380	1	1.44	572 1.8		479 374.3		956 0.2	503 250.74	674 0.74	723 1	500 1.73	571 0.97		13.7	22		26	18 16.4		17		1.31	
Nitrite			0.018		0.01	0.15		0.01		0.01	0.01	0.01	0.01	0.01	0.19			0.045		0.009	0.0025		0.01		0.01	0
Nitrate	50 (5) 250 (5)	1	0.07	40.40	0.15	0.125	20.20	0.125	55.00	0.125	0.125	0.125	0.125 49.59	0.125		16.30		0.03	53.30	0.06	0.03	43.30	0.15	5.27	0.125	4.16
Sulphate Sulphide	250 (5)	+ +		48.40	34.	10	29.20		66.90		42.40	48.85	49.59	61.89	42.18	16.20		20.60	53.70		36.50	42.20		3.4/		4.10
Calcium				170.00	160.		162.00		204.00		161.77	163.00	175.00	138.74	158.00	301.00		325.00			306.00	353.00		381.00		409.00
Potassium Magnesium		+		454.00 158.00	365. 139		332.00 124.00		607.00 188.00		463.70 141.08	548.00 173.00	575.00 185.00	408.00 127.10		18.70 26.50		16.60 23.70			16.70 17.60			15.70 20.80		17.90 23.60
Sodium	200(5)	+		657.00	139. 500.		440.00		938.00		141.08 668.94	785.00	793.00	553.00		28.00			27.30		17.60			22.20		26.50
Biochemical Oxygen Demand			77.0		48.0	30.0		20.0		41.0	44.0	43.0	42.0	23.0	34.0			2.5		19.0	15.0		2.5		11.0	
Chemical Oxygen Demand Conductivity		+ +	843 6580	1 1	10 8450	668 7360		501 6410		995 10800	888 8270	837 9834	10 9866	579 7170	781 9109		4051	28 1740	+	42 2000			27 1690		322 1820	2
Total Oxidisable Nitrogen			0.09		0.15	0.15		0.15		0.15	0.15	0.15	0.15	0.15	0.15		70.74	0.03		0.07	0.03		0.15		0.15	0
Total Phosphorus			3		2.25	1.94		1.77		3.43	3.12	2.75	2.24	1.58	2.63			0.125		0.42	0.125		0.125		0.44	0

The Water Framework Directive (Proutly Substances and Cassification) Regulations (Northern lestand) 2015 Freshwater.
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 The Cassification (Proutly Substanded (Northern Lestanded (Nort

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-KDS, Where the MAC-KDS are marked as "not applicable", the AA-KDS values are considered protective against short term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of acutedout production.

Note: Copinional salide derived via the Metal Bioxival shall by Assessment Tool (M. MAT) developed by WFDTAG. Look at receptor specific assessment using the M. Tool via Copinional shall be a transfer of the Copinional shall be a transfer of the Copinional shall be a transfer of the Copinional shall be a transfer of the Copinional shall be a transfer of the Copinional shall be a transfer operation as the Copinional shall be a transfer operation as the Matel Bioxival shall be assessment to look the Copinional shall be a transfer operation as the Matel Bioxival shall be a shall be shall be a shall be a shall be a shall be a shall be a shall be

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																		BH220						
HEAVY METALS			10/03/2020	35 (03 (3030	20/00/2020	10/01/2021	02/00/2021	02/11/2021	21/01/2022	20/02/2016	00/00/2015	10/10/2017	47/04/2010	27/05/2010	en (en /nose	03/10/2010	47/40/2040 00/0	2010 11/01/2	10 10 10 100	05/03/3010	22/02/2010	L sessos L a	4/10/2010	40/03/2020	25/02/2020	20/00/2020
Arsenic (diss.filt)	μg/l 50 (AA) (1) 25 (AA (2)		10.00	25/02/2020	10.00	13,50	10.00	0.00	31/01/2022	20/07/2016	03/08/2016	12.50	10.00	10.00	05/07/2018	10.00	17/10/2018 09/01	0 10.00	16/04/201	10.00	22/07/2019	10.00	A/10/2019	10.00	25/02/2020	10.00
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		1.000		1.000	0.025						5.000	1.000	1.000		1.000	1.0			1.000		1.000		1.000		1.000
Chromium (diss.filt)	50 (5)				2.500	0.357	2.500						2.500	2.500		2.500	2.5									2.500
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (182)	34.94	2.500		2.500	0.410	6.606 28400	27900	21800			10.000 7580		6.980		7.690 18500	10.	00 13.700		6.330		9.250		14.500 54800		2.500 7441
Mercury (diss.fit)	0.07 MAC (182)		21600	-	18300	83300	28400	2/500	21800	-		7580		15500		16300		20900	_	15000	-	30100		34600		/441
Manganese (diss.filt)	123 (AA) (MB 108 1)	276.92	2900		8610	12300	10200	6510	6960			2130	3020	3160		3460	40	0 3420		3100		3990		11500		3476.173502
Molyhdenum (diss filt)	70 (8) ?																									
Nickel (diss.filt) Lead (diss.filt)	4, (AA) (1), 8.6 (AA) (2), 34 (MAC) (182) 1.2(88 508 5) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	14.98 9.64	5.08		2.50 10	2.99 0.125	2.50					12.50 12.5	5.94	7.49 10		5.94 10	5.			5.07 10		5.54 10		2.50		5.99 10
Antimony (diss.filt)	5 (5)	9.04	10		10	0.125	10					12.5	10	10		10		10	_	10		10		10		10
	10/5	10			0.00	0.27																				
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (************************************	37.15	3.34		4.52	3.07	4.44					10.00	3.07	2.83		2.11	3.	6 4.04		2.13		3.15		6.58		2.43
Iron (Total)		_	_			239000 14700	42400 10700	43200 6354	31100 7210			29300 3780	11200 2900		19200 3120				_				_			$\overline{}$
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)					0.36	20700	0334	72.20			3700	2300		3120											-
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)					0.050																				
Aluminium (diss.filt) Vanadium (diss.filt)		1	20	1 -	20	20 0.125	20	20	20	1 -		50	20	20		20		20		20	1	20	T	20		20
Vanadium (diss.filt) Phenols	ug/l					0.125																	_			
Phenols, Total	7.7 (1&2) 46 (95th%ile) (1&2)																			7						
Speciated TPH	ug/l																									
Aliphatics EC CS-C6	15000 (7)																									
	15000 (7) 15000 (7)	1	1	+	 	1		-	-	1	 	-	 	 	 	1	 			+	1	+			-	
EC>C6-C8 EC>C8-C10	300 (7)																									
EC>C10-C12	300 (7)																									
EC>C12-C16 EC>C16-C21	300 (7)																									
EC>C21-C35																			_							$\overline{}$
EC>C35-C44																										-
Aromatics																										
EC CS-C7 EC>C7-C8	10 (7) 700 (7)																									
EC>C8-C10	300 (7)			-				 		-						-		_	_	_	-	+				
EC>C10-C12 EC>C12-C16	90 (7)																									
EC>C12-C16	90 (7)																									
EC>C16-C21 EC>C21-C35	90 (7)																									
Berizene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)	-																	_							$\overline{}$
Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)																									
Ethylbenzene	300 (8)																									
p/m-Xylene																										
o-Xylene Sum of detected Xylenes	500 (8)	-																	_							
Polyaromatic Hydrocabons	μg/l																									
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)																									
Acenaphthylene (aq) Acenaphthene (aq)																										
Fluorene (aq)	:																		_							
Phenanthrene (aq)	-																									
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)																									
Fluoranthene (aq) Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)																									
Benzo(a)anthracene (aq)	-	+	+	+	 				 	1		 				1	 	_	_	+	1	+ + +	_		-	
Chrysene (ag)	-																									
Benzo(b)fluoranthene (aq)	0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.00017 (AA) (18.2) MAC (0.27 (1) 0.027 (2))			1												1										
Benzo(k)fluoranthene (aq) Benzo(a)pyrene (aq)	0.017 (MAC) (1&2) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	+	+	+	+	-		1		1						1	 	_	_	+	1	+				
Indeno(1,2,3-cd)pyrene (aq)	3,00017 (m) (1 0 1) Fine (0.17 (1) 0.017 (2))	+	+	1	t			1	t	1		t				1		_		+	1	1	-			
Dibenzo(a,h)anthracene (aq)	-																									
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2)																			1						
INORGANICS Dissolved Organic Carbon	mg/l			10.8	8.5	12.5		17.6	105.5	47	290	25.6	18.5		29.4		31.5 2	8	21		43.5		46.1		23.7	12.8
pH pH	6 - 9 (2&4)	1	1	6.8	6.7	6.7	6.8	6.8	6.8	6.9	6.9	6.8	6.8	1	6.9	1	7 6	1	6.9	1	7.4	1	6.8		6.9	6.7
Alkalinity (Total)				1100	839	1109	1249	995	806	820	1200	951	761		918		1225 9	5	878		896		947		847	922
Chloride	250 (5)			14	27	12	15	17	32	65	81	63	50		63	1	95 5		48		66		57		49	93
Ammoniacal Nitrogen Nitrite		-	 	8.82 0.01	5.56 0.01	9.72 0.01	18.37 0.01	24.77 0.01	30.58 0.01	0.28	0.34	60 0.0025	42.4 0.02		52 0.0025	1	73 S 0.005 0.0	25	0.01	+	61 0.01	+	57.7 0.01		44.04 0.01	11.68 0.01
Nitrate	50 (5)	+	+	0.125	0.125	0.125	0.125	0.125	0.01	0.25	0.25	0.0025	0.02		0.03	1		3	0.15	+	0.125	1	0.125		0.125	0.125
Sulphate	50 (5) 250 (5)		23.90		1.31	1.37	10.31	162.91	2.54			57.60	34.00	13.70		8.85	37	0 47.00	2.23	3.53		2.51		0.60		3.25
Sulphide																							T			
Calcium Potassium	+	1	218.00	1	308.00	409.00 15.04	460.00 17.34	414.00	305.00	1	1	198.00 48.60	199.00	233.00	1	298.00 57.00		00 178.00		217.00 42.50	1	247.00 41.00		374.00		233.00
Magnesium		+	32.30 26.20	1	11.61	15.04	17.34 25.03	21.50 25.13	13.07	1		48.60 29.80	33.10 22.60	42.80 29.30		43.60	27			42.50 28.10	1	41.00 26.80		13.10 18.00		42.25 27.79
Sodium	200(5)		49.60		13.03	20.79	23.62	25.35	12.30			72.20	47.70	58.90		83.40		10 54.40		58.40		58.30		15.20		60.08
Biochemical Oxygen Demand				7.8	2.5	10.0	6.5	7.8	2.5			2.5	2.5		6.9		2.5 4		13.0		3.1		9.5		13.0	2.5
Chemical Oxygen Demand		+	+	150 1830	10 1540	10 2042	35 2247	10 1980	67 1464	1		106 2078	47 1603		92 1904	1	95 4 2460 19		49 1790	+	50 1840	+	43 1910		77 1740	97 1900
Conductivity Total Oxidisable Nitrogen	+	1	1	0.15	0.15	0.15	0.15	0.15	0.15	1	 	0.03	0.03	 	0.03	1	0.03 0.	3	0.15	+	0.15	1	0.15		0.15	0.15
Total Phosphorus				0.39	0.31	0.125	0.125	0.42	0.3			0.38	0.3		0.26		0.125 0.	8	0.28		0.125		0.125		0.43	0.125

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basis of particularity.

Note: 4 (2000 ovalidate derived via the Metal Biovariability Associated Tool (M. BAT) developed by WET FAL. Look at receptor specific associations of the Metal Biovariability association of the Metal Biovar

	•	1 1	ı																						
Sample Point / Determinands	TSV	MBAT PNEC (ug/l)															BH221								
HEAVY METALS	μg/l		19/04/2021	03/08/2021	02/11/2021	31/01/2022	24/10/2017	12/01/2018	20/02/2018	12/04/2018	17/04/2018	27/06/2018	02/10/2018	03/10/2018	09/01/2019	11/04/2019	15/04/2019 05/07/2019	08/07/2019	15/10/2019	22/10/2019 19	/02/2020	24/02/2020	29/09/2020	13/04/2021 27/07/2	021 08/11/2021
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		4.03	10.00	0.00		10.00	10.00			10.00	10.00		10.00	10.00	10.00	10.00		10.00		10.00		10.00	7.73 10.00	0.00
Cadmium (diss.filt) Chromium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		0.025	1.000 2.500			1.000	1.000 2.500			1.000 2.500	1.000 2.500		1.000 2.500	1.000	1.000	1.000		1.000		1.000		2.500	0.025 1.000 0.385 2.500	
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94	0.125	2.500			2.500	2.500			2.500	2.500		2.500	2.500	2.500	2.500		2.500		2.500		2.500	0.259 8.923	
Iron (diss.)	1000 (AA) (1&2)		12372	5553	14570	15400	2680	1540			225	1090		2530	12800	57	1120		6700		4020		53	865 8493	6405
Mercury (diss.fit)	0.07 MAC (182) 123 (AA) (*********************************	276.92						1810				3330		5300					0.0025 2960		1600		2262 211217	1250 212221 1225 250	
Manganese (diss.filt) Molybdenum (diss.filt)	70 (8) ?		2228.822276	2290.524715	3510.3136//	2/10./15456	2890	1810			3320	3330		5300		2590	2810		2960		1600		2363.311217	1359./12321 1/35.265	/44 2419.956964
Nickel (diss.fit)	Δ ^(NM NM N) (ΔΔ) (1), 8.6 (ΔΔ) (2), 34 (MΔC) (182)	14.98	4.13	2.50			2.50	2.50			2.50	2.50		5.75	2.50	2.50	7.84		9.99		2.50		2.50	2.33 2.50	
Lead (diss.filt)	1.2 (MAC) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64	0.125	10			10	10			10	10		10	10	10	10		10		10		10	0.125 10	
Antimony (diss.filt) Selenium (diss.filt)	5 (5) 10(5)	10	0.10																				0.00	0.29	\rightarrow
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (ABC)	37.15	0.50	1.00			2.62	1.00			32.30	1.00		3.18	8.24	2.01	1.00		1.00		1.00		1.00	4.38 7.20	
Iron (Total)			25200	14000 2352,69666	30800 3510	25900 2753,099994	29500 3310		28500 2076.803088	13500 3290		11400 3460												8568.687151 21100 1362.292037 1830.863	17200
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)	-	0.70	Z35Z.69666	5510	2/53.099994	3310		20/6.803088	3290		3460	-					+						0.38	JS4 2490.917883
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.050																					0.025	
Aluminium (diss.filt) Vanadium (diss.filt)			20 0.332	20	20	20	50	20			20	20		20	20	20	20		20		20		20	20 20 0.378	20
Vanadium (diss.filt) Phenols	ug/l		U.332							_														0.378	
Phenois, Total	7.7 (1&2) 46 (95th%ile) (1&2)																								
Speciated TPH	ug/l																								
Aliphatics FC CS-C6	15000 (7)	+		+	1	1		 				+	+		+			+	+	 					\rightarrow
EC>06-C8	15000 (7)																								_
EC>C8-C10 FC>C10-C12	300 (7)																								
EC>C10-C12 EC>C12-C16	300 (7) 300 (7)																								
EC>C16-C21	300 (7)																								\rightarrow
EC>C21-C35 EC>C35-C44																									
Aromatics EC CS-C7	10 (7)																								-
EC>C7-C8	700 (7)																								-
EC>C8-C10 EC>C10-C12	300 (7)																								
EC>C10-C12 EC>C12-C16	90 (7) 90 (7)																								
EC>C16-C21	90 (7)																								\rightarrow
EC>C21-C35	90 (7)																								
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)																								
Ethylpenzene	300 (8)																								\rightarrow
p/m-Xylene																									
o-Xylene Sum of detected Xylenes	500 (8)																								
Polyaromatic Hydrocabons	μg/l																								
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)																								
Acenaphthylene (aq)	·																								
Acenaphthene (aq) Fluorene (aq)	:																								_
Phenanthrene (aq)	-																								
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)																								
Fluoranthene (aq) Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)																								_
Benzo(a)anthracene (aq)	*																								
Chrysene (aq)	0.017 (MAC) (1&2)																								
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (182)																								_
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))																								_
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a h)anthracene (aq)	-					1 -	1						1												-
Benzo(a,h.)perviene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)			1	+	1	 	f				 	 		 	1		+	+	 					-++
INORGANICS	mg/l																								
Dissolved Organic Carbon	6.0(294)		13	7	23.9	24.3	17.3		-	9.6		19.7	24.5		12.1		20.2	24.1		23.8		13.7	6	17.2	17.08
pH Alkalinity (Total)	6 - 9 (2&4)		6.8 618	7 754	6.6 948	6.8 721	7.7 439	f		7.2 432		7.3 561	7.3 962		7.6 669	1	7.2 513	7.1 790	+	7.1 667		7.4 346	7.2 585	7.5 7.2 419 493	7.4 534
Chloride	250 (5)		36	41	53	44	21			24		41	56		26		34	40		38		32	54	34 41	25
Ammoniacal Nitrogen			29.52	39.8	54.47	39.66	12		6.49	8.93		11.2	24.9		15.4		13.6	19.7	1	27.97		12.5	14.52	13.89 14.9	14.29
Nitrite Nitrate	50 (5)	+	0.01		0.01	0.01 0.125	0.006	 		0.041		0.0025	0.006		0.0025		0.01 0.15	0.01 0.125	+	0.01 0.125		0.01	0.01 0.125	0.01 0.01 0.125 0.125	
Sulphate	50 (5) 250 (5)	+ -	7.87		4.17	8.80	3.77	16.30		0.03	48.30		0.03	8.23	0.03	3.99	0.15	0.125	2.04		14.00	0.125	2.60	1.62 2.34	
Sulphide																									
Calcium		1 7	170.00		264.00 42.70	189.00	133.00				144.00		1	278.00	10.10	134.00	174.00 19.50	_	163.00		103.00		164.00	108.20 124.3	
Potassium Magnesium		+	26.08 18.06		42.70 28.70	32.03 21.07	12.10 13.90	8.12 9.60	-		9.02 15.10	11.90 21.50	 	25.90 39.00	18.10 18.70	15.50 20.00	19.50 24.40	+	24.20 24.20	 	13.00 13.20		17.86 20.97	16.47 15.79 16.61 21.73	14.28
Sodium	200(5)		38.57	41.29	62.08	47.44	22.80	19.00			23.70	47.40		70.90	20.10	50.40	57.10		51.30		26.70		38.36	37.97 60.17	31.26
Biochemical Oxygen Demand			11.0	2.5	10.0	16.0	4.5			4.5		6.0	14.0		8.3		5.7	27.0	1	10.0		4.9	5.9	2.5 2.5	9.0
Chemical Oxygen Demand Conductivity			28 1317	42 1538	59 1910	41 1517	138 875	f	637	42 920		193 1139	177 1808		41 1272	1	118 1040	1190 1390	+	82 1330		99 786	131 1150	42 84 887 1051	107 1050
Total Oxidisable Nitrogen		1 1	0.15	0.15	0.15	0.15	0.03		0.57	0.03		0.03	0.03		0.03	1	0.15	0.15	+	0.15	- +	0.15	0.15	0.15 0.15	0.15
Total Phosphorus			0.125	0.125	0.29	0.125	0.125			0.36		0.27	0.26		0.125		0.54	1.09		0.125		0.39	0.125	0.125 0.125	

The Water Famework Directive (Priority Substances and Cassification) Regulations (Northern related) 2015 Freshwater.
 The Water Famework Directive (Priority Substances and Cassification) Regulations (Northern related) 2015 Freshwater.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS, Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of acutedout.

Note: 1000 care label femmed via the Metall Biovaribability Assessment Tool (M-BAT) developed by WFDTAL Look at recognitor specific assessment using the M-BAT (and the Metall Biovaribability Assessment Tool (M-BAT) developed by WFDTAL Look at recognitor specific assessment using the M-BAT (and the Metall Biovaribability assessment Tool (M-BAT) developed by WFDTAL Look at recognitor specific assessment using the M-BAT (and the Metall Biovaribability assessment Tool (M-BAT) developed by WFDTAL Look at recognitor specific assessment using the M-BAT tool winsp (Look Card Look of the Self-Are Metall Biovaribability assessment tool (M-BAT) developed by WFDTAL Look at recognitor specific assessment using the M-BAT tool winsp (Look Card Look of the Self-Are Metall Biovaribability assessment using the M-BAT tool winsp (Look Card Look of the Self-Are M-BAT tool winsp (Look Card Look of the Self-Are M-BAT tool winsp (Look Card Look of the Self-Are M-BAT tool winsp (Look Card Look of the Self-Are M-BAT tool W-BAT LOOK of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Look of the Self-Are M-BAT Tool Card Tool Card Tool Card Tool Card Tool Card To

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)		BH2A Drumahoe						BH301											BH302						
HEAVY METALS	μg/l		25/01/2022	27/04/2021	11/04/2019	03/07/2019	05/07/2019	15/10/2019	04/11/2019	19/02/2020	13/10/2020	21/04/2021	19/07/2021	26/10/2021	02/02/2022	09/04/2019	11/04/2019	15/10/2019	06/11/2019	17/02/2020	19/02/2020	13/10/2020	21/04/2021	19/07/2021	26/10/2021	02/02/2022	10/04/2019
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		23/02/2022	1.73	31.90	03/07/1013	32.20	10.00	04/11/1015	10.00	10.00	19.53	16.71	13.28	18.11	03/04/2023	10.00	10.00	00/11/1015	17/01/1010	28.60	35.54	66.30	45.70	36.80	65.70	10/04/1013
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l			0.025	1.000		1.000	1.000		1.000	1.000	0.025	0.025	0.025	0.025		1.000	1.000			1.000	1.000	0.025	0.025	0.025	0.025	
Chromium (diss.filt)	50 (5) 1 (AA) bioavailable ^(see Note 1) (1) ^(see Note 4) (2)	****		0.125	0.805		1.400	1.300		0.250 8.140	0.488	0.349	0.397	0.388	0.360		13.400	14.000			2 500	8.940 19.818	6.041 7.153	3.691 5.151	3.032	5.488 2.381	
Copper (diss.filt) Iron (diss.)	1 (AA) bioavailable (1) (2)	34.94	cocc	U.125 969	15.800 29900		45200	44500		8.140 25100	9356	20400	0.250 31200	27500	28700		13.400 21500	536			1850	19.818	7.153 463	350	4.431 353	509	
Mercury (diss.filt)	0.07 MAC (182)		0033	0.0025	0.0025		0.0025	0.0025		0.0025	0.0025	0.0025	0.0025	0.0025	0.0025		0.0025	0.0025			0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	
Manganese (diss.filt)	123 (AA) (*********************************	276.92	1711.547773	2582.97181	4730		3410	4820		3350	3296.811115	1064.697877	2399.375302	4650	3052.128357		5590	956			704	790.7612041	631.865184	735.2114665	703.9422247	619.7424775	
Molybdenum (diss.filt) Nickel (diss.filt)	70 (8) ? 4(MAC) (18, 8.6 (AA) (2), 34 (MAC) (182)	14.98		4.76	18.20			22.10		8.35		5.74	12.33		12.84		263.00	350.00					243.00			205.00	
Lead (diss.filt)	1.2(MAC) (1), 8.6 (AA) (2), 34 (MAC) (162)	9.64		4./b 0.125	18.20		16.20	10		8.35	15.74	0.125	0.025	0.125	0.125		263.00	350.00			241.00	395.97	0.481226249	0.605	0.352	0.622386403	
Antimony (diss.filt)	5 (5)												0.025	0.113										0.005			
Selenium (diss.filt)	10(5)	10		0.34	0.50		0.50	0.50		0.50	0.10	0.10	0.10	0.10	0.10			1.20				0.20	0.83	0.57	0.41	0.76	
Zinc (diss.filt) Iron (Total)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC	37.15	14200	5.77 18800	7.65		8.68	7.94		4.55	3.15	0.50 37100	6.53 42000	1.70 36200	1.97 36400		10.40	19.70			13.70	28.08	4.98 50700	3.79 5543.407044	2.03 5817.419507	2.56 16200	
Manganese (Total)			1837.750661	2868.430704								1143.71737	2434.103025	4570	2940								1958.786803	899.4431603		896.732002	
Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)			0.13	0.40		0.70	0.65		0.25	0.49	0.35	0.39	0.39	0.25			7.00				8.94	6.04	3.70	3.03	5.49	
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)			0.130	0.025		0.025	0.025		0.025	0.025	0.025	0.025	0.025	0.107			0.025				0.025	0.025	0.025	0.025	0.025	
Aluminium (diss.filt) Vanadium (diss.filt)		_	20	20 0.125	20		20	20		20	0.125	20 0.125	20 0.120	20 0.125	20 0.125		47	41			70	60.33050341 4.920	20 3.164	20	20 1.597	20	
Phenois	ug/l																										
Phenols, Total	7.7 (1&2) 46 (95th%ile) (1&2)			22.50	22.50	22.50			22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50			200.00	60.00		1940.00	22.50	22.50	2.10	22.50	22.50
Speciated TPH	ug/l																										
Aliphatics EC CS-C6	15000 (7)	+	+	10	10	10			10	10	10	10	10	10	10	10		+	10	10		10	10	10	10	10	10
EC>06-C8	15000 (7)	+	+	12.5	10 12.5	10.5			12.5	12.5	12.5	10	12.5	12.5	10	12.5		!	10	12.5		12.5	12.5	12.5	12.5	10 12.5	1462.5
FC>C8-C10	300 (7)			7.5	7.5	7.5			7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5			7.5	7.5		7.5	7.5	7.5	7.5	7.5	7.5
EC>C10-C12	300 (7)				5	10			5	5						950			5	5							240
EC>C12-C16 EC>C16-C21	300 (7)	_			5	5			5	5						30		_	5	5		_			_		5
EC>C21-C35			-		20	5			5	5						5			5	5							
EC>C35-C44					5	5			5	5						5			5	5							30 5
Aromatics FC CS-C7	10.77																					5 27					1470
EC-C7-C8	10 (7) 700 (7)			1	2.5	2.5			2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5			3.6 10.9	6.5 15.5		5.27 15.4	4.833 8.969	4.848 8.196	4.084 2.5	2.5	1470 51
EC>C8-C10	300 (7)			2.3	25	2.3			2.3	2.3	2-3	2.5	2.5	2.3	2.3	2.5			10.9	13.3		13.4	8.909	0.190	2.3	2.3	140
EC>C10-C12	90 (7)				5	10			5	5						950			5	5							140 240 610
EC>C12-C16	90 (7)				40	30			5	5						1500			5	5							
EC>C16-C21 EC>C21-C35	90 (7)	_			40 40	50 10			5	5						1200 800			5	5							600
Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)			0.50	0.50	0.50			0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50			3.60	5.18		4.29	4.33	4.22	3.56	0.50	60 1470.00
Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)			0.50	0.50	0.50			0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50			0.50	1.32		0.50	0.50	0.50	0.50	0.50	51.00
Ethylbenzene	300 (8)			0.50	0.50	0.50			1.00	0.50	0.50	0.50	0.50	0.50 1.00	0.50 1.00	0.50 1.00			4.50 3.90	5.25 5.47		6.66	4.11 2.80	2.90 3.11	0.50 2.33	0.50	127.00
p/m-Xylene o-Xylene			-	1.00 0.50	1.00 0.50	1.00 0.50			0.50	1.00 0.50	0.50	1.00 0.50	1.00	0.50	0.50	0.50			3.90 2.50	3.39		5.02 2.77	1.56	3.11 1.56	2.33 1.17	1.00 0.50	0.50
Sum of detected Xylenes	500 (8)			1.50		1.50			1.50	1.50	1.50	1.50	1.50	1.50	1.50				6.40	8.86		7.78	4.35	4.67	3.49	1.50	
Polyaromatic Hydrocabons	μg/Ι																										
Naphthalene (aq) Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)			0.105 0.009	0.408	0.039			0.712	0.008	0.004	0.217	0.061	0.312	0.114	0.473			0.462	1.560 0.017		0.033	0.586	0.175	0.515 0.011	0.542 0.057	730.775 27.949
Acenaphthene (aq)				0.013	0.095	0.022			0.138	0.001	0.001	0.026	0.016	0.034	0.095	0.063			0.042	0.138		0.001	0.067	0.046	0.053	0.049	56.595
Fluorene (aq)	•			0.010	0.123	0.038			0.134	0.002	0.028	0.030	0.020	0.041	0.037	0.106			0.034	0.076		0.018	0.073	0.036	0.099	0.074	2.931
Phenanthrene (aq)	0.1 (AA & MAC) (1 & 2)			0.057	0.356	0.044			0.175	0.003	0.086	0.042	0.023	0.020	0.041	0.260			0.085	0.185		0.073	0.154	0.026	0.066	0.071	1.030
Anthracene (aq) Fluoranthene (aq)	0.1 (AR & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)		-	0.003 0.014	0.027	0.003			0.003	0.003	0.003	0.003	0.015	0.012	0.003	0.013			0.039	0.033		0.003	0.033	0.017	0.056	0.029	0.067
Pyrene (aq)				0.010	0.054	0.008			0.035	0.001	0.021	0.011	0.003	0.007	0.011	0.061			0.034	0.060		0.034	0.060	0.007	0.191	0.023	0.056
Benzo(a)anthracene (aq)	-			0.001	0.034	0.005			0.009	0.001	0.003	0.002	0.002	0.001	0.002	0.021			0.010	0.025		0.018	0.004	0.003	0.141	0.007	0.013
Chrysene (aq) Benzo(b)fluoranthene (aq)	0.017 (MAC) (182)	+	-	0.003 0.001	0.040	0.007			0.011	0.001	0.005	0.004	0.004	0.001	0.004	0.028		-	0.012	0.032		0.026	0.009	0.007	0.030	0.011	0.017
Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2)	1	1	0.001	0.032	0.017			0.010	0.001	0.002	0.002	0.003	0.001	0.003	0.008	1		0.006	0.008		0.018	0.004	0.010	0.001	0.007	0.006
Benzo(a)pyrene (ag)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))			0.001	0.015	0.007			0.007	0.001	0.004	0.002	0.001	0.001	0.003	0.018			0.007	0.011		0.040	0.004	0.008	0.007	0.014	0.006 0.016
Indeno(1,2,3-cd)pyrene (aq)	•			0.001	0.057	0.002			0.006	0.001	0.003	0.002	0.006	0.001	0.003	0.035			0.006	0.003		0.020	0.005	0.031	0.005	0.012	0.016
Dibenzo(a,h)anthracene (aq) Benzo(a,h,i)perviene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	+	-	0.002	0.078	0.002			0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.010		-	0.002	0.002		0.015	0.002	0.007	0.002	0.002	0.014
INORGANICS	mg/I			0.004	0.040	0.002			3.007	2.004	0.002	0.002	0.007	0.001	0.002	0.004			0.004	0.003		0.040	0.003	0.027	0.004	0.022	0.023
Dissolved Organic Carbon			17.8	1.9	8.9	10.2			10	7.8	10.6	7		10.1	8.1	235		170		304		304	143.1		330	133.5	79
pH	6 - 9 (2&4)	1	7.3	6.5	6.9				6.8	7 347	6.7	7 317	6.9	6.8	6.8	7.2		7.2		7.4		7.1	7.5	7.1	6.8	7.1	6.9
Alkalinity (Total) Chloride	250 (5)	+	460	134	351 41	438 36		—	384	34/	435	317	331 31	371	322 27	3480 1107	 	3646 730		3904 867	1	3368 5569	3022 692	2865 675	2864 164	2752	1629 145
Ammoniacal Nitrogen	250 (5)		15.9	0.2	4.5	15.5			10.69	3.99	13.06	2.37	10.86	9.82	6.7	441		399.41		1.41		1.92	1.78	471.74	70.09	1.97	104
Nitrite			0.01	0.01	0.01				0.01	0.01	0.01	0.01	0.01	0.01	0.01			0.01		0.062		0.01	0.054	0.143	0.01	0.01	0.01
Nitrate Sulphate	50 (5) 250 (5)	+	0.125 1.69	1.86 28.17	0.15	0.125	32.70	80.20	0.125	0.125	0.125	0.125 84.03	0.125 77.43	0.125 74 58	0.125 77.21	0.15	31.80	0.125 27.80	-	0.125	27.30	0.125	0.125	0.125 17.80	0.125 18.10	0.125 17.44	0.15
Sulphide	250 (5)	+	1.69	26.17	168.00		32.70	80.20		109.00	74.20	84.03	77.43	74.58	11.21		31.80	27.80			27.30	24.77	18.84	17.80	16.10	17.44	-
Calcium		1	118.79	48.73	167.00	1	110.00	109.00		146.00	125.31	134.02	110.00	121.03	121.85	1	74.90	47.80			75.80	52.11	57.78	36.70	37.48	72.40	$\overline{}$
Potassium			16.02	3.84	19.70		35.10	32.80		14.20	30.50	13.72	27.05	27.95	24.49		227.00	307.00			379.00	292.00	270.00	254.00	255.00	248.00	
Magnesium	200(5)	1	18.04 35.85	6.05 40.90	15.50 34.70		20.30 44.30	20.10 37.50		13.50 26.60	20.09 33.21	12.80 21.54	17.40 31.15	19.24 33.56	17.08 26.61		142.00	138.00			158.00	133.94	112.22	103.00	109.57	111.47	
Sodium Biochemical Oxygen Demand	200(5)	+	35.85	40.90	2.5	4.4	44.50	37.30	2.5	3.1	33.21	21.54	31.15 5.0	53.5b	26.61 4.3	65.0	1050.00	41.0		36.0	265.00	27.0	15.0	13.0	6.9	19.0	11.0
Chemical Oxygen Demand		1	38	10	10	10			10	10	10	10	10	10	10	1184	1	10		751	1	632	488	59	46	423	10
Conductivity			956	492	1080	1080			985	951	1100	872	944	1010	912	9150		9230		9650		8430	7589	7425	2560	6930	10 3550
Total Oxidisable Nitrogen Total Phosphorus			0.15 0.125	1.86 0.125	0.15	0.15			0.15 0.125	0.15	0.15	0.15	0.15 0.125	0.15	0.15	0.15		0.15		0.15		0.15	0.15	0.15	0.15 0.27	0.15 0.56	0.15
rotai Phosphorus	- L	1	U.125	U.125	u.34	0.29			0.125	0.125	U.125	U.125	U.125	U.125	0.125	0.67	1	U.84		1	1	U.93	U.39	0.62	U.27	0.56	0.59

- The Water Framework Directive (Proutry Sobstances and Casaffication) Regulations (Northern Instand, 2015 Freshwater.
 The Water Framework Directive (Proutry Sobstances and Casaffication) Regulations (Northern Instand, 2015 Freshwater.
 The Water Framework Directive (Proutry Sobstances and Casaffication) Regulations (Northern Instand, 2015 Translational waters.
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- MAC. This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS, Where the MAC-EQS are marked as "not applicable"; the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly/lower than the values derived on the basic of acute

| Table Tabl | Sample Point /
Determinands | TSV | MBAT PNEC | | | BH303 |
 | | | | вн | 1401
 | | | BH40:
 | 2 | | | BH403
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 | 404 | |
 | BH405 | | |
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Second Column		
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 | | | |
| Second Column | HEAVY METALS | ug/l | | 11/04/2019 | 15/10/2019 | 31/10/2019 | 19/02/2020
 | 26/11/2020 | 17/02/2021 | 13/04/2021 | 28/07/2021 | 27/10/2021
 | 25/01/2022 | 14/04/2021 | 28/07/2021
 | 01/11/2021 27 | 7/01/2022 1 | 15/04/2021 | 02/08/2021
 | 01/11/2021 2 | 27/01/2022 | 14/04/2021 | 02/08/2021
 | 01/11/2021 | 27/01/2022 | 27/04/2021
 | 04/08/2021 | 11/08/2021 | 26/04/2021 |
| The column Column | Arsenic (diss.filt) | 50 (AA) (1) 25 (AA (2) | | 10.00 | 10.00 | | 10.00
 | | | 4.12 | 3.48 | 2.74
 | 3.77 | 6.09 | 7.41
 | 10.59 | 9.27 | 7.14 | 11.69
 | 7.22 | 6.20 | 17.90 | 33.40
 | 26.70 | 24.40 | 14.00
 | 11.15 | | 8.14 | | | | |
| Second column | | | | | | |
 | | | | |
 | | |
 | | | |
 | | | |
 | | |
 | | | |
| March Marc | | 50 (5) | | 2.400 | 2.600 | | 1.900
 | | 1 | | |
 | | | 0.125
 | 0.125 | 0.125 | | | | | |
 | | 2.801 | |
 | | 0.454 |
 | 1.116 | | 0.546 |
| March Marc | Copper (diss.filt) | 1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) | 34.94 | | | |
 | | 1 | | |
 | | |
 | | | |
 | | | |
 | | |
 | | | 0.776 |
| March Marc | | 1000 (AA) (1&2) | | | | |
 | | | | |
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 | | | |
| The contract The | | U.U/ MAC (162) | 670.00 | | | | 0.0025
 | | | | |
 | 0.0025 | | 0.0121
 | | 0.0157 | | 0.0025
 | 0.0025 | 0.0025 | 0.0157 | 0.0113
 | 0.00958 | 0.0112 | 0.0025
 | 0.00922 | | 0.0025 |
| Column | Mahdadanum (diss.riit) | | 276.92 | 4880 | 2320 | | 3220
 | | - | 6/80 | 9090 | 9430
 | /310 | 3/400 | 28300
 | 29500 | 20100 | 9/50 | 13600
 | 5/60 | /640 | 15100 | 13/00
 | 13000 | 12200 | 8490
 | 12100 | | 15500 |
| Column C | | | 14.98 | 19.10 | 18.60 | | 10.60
 | | - | 4.05 | 3.88 | 3 37
 | 2.40 | 98.40 | 97.40
 | 99.30 | 73.50 | 57.48 | 55.50
 | 13.02 | 41.50 | 23.95 | 17.20
 | 15.73 | 15.91 | 38.20
 | 66.50 | + | 22.67 |
| Second Column Col | Lead (diss.filt) | 1.2(000 7000 3) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182) | | 10 | 10 | | 10
 | | | | |
 | | 1 50817893 |
 | 0.125 0.3 | 329424802 O | |
 | | 413061883 | 1 347457726 | 0.125
 | 0.125 | 0.125 | 0.125
 | | | | | | | |
| ## 150 100 100 100 100 100 100 100 100 100 | | 5 (5) | | | | |
 | | | | 0.0303.0.03 |
 | | |
 | | | |
 | | | 2.0 |
 | | |
 | | | |
| Part | Selenium (diss.filt) | | | | 0.50 | |
 | | | 0.46 | | 0.30
 | | |
 | | 0.10 | | 0.40
 | 0.10 | 0.42 | 0.30 | 0.27
 | | |
 | 0.32 | | |
| Column C | | 10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (10.0 A) | 37.15 | 2.53 | 3.80 | | 3.18
 | | | | | | | |
 | | |
 | | | |
 | | | |
 | | |
 | | | 20.62 |
| March Marc | Iron (Total) | | | | | |
 | | | | |
 | | |
 | | | |
 | | | |
 | | |
 | | | 36300 |
| March Marc | Manganese (Total) | | | | | |
 | | | | 9720 |
 | | |
 | | | |
 | | | 16700 |
 | | |
 | 12800 | | 15700 |
| Column C | | 4.7 (AA) (1) 95th%ale (32) | | | | |
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 | | | |
 | | | |
 | | |
 | | | 0.55 |
| Property | | 3.4 (AA) (1), 0.0 (AA) (2), 32 (95til sile) (2) | | 0.025 | 0.025 | | 0.025
 | | - | 0.025 | 0.025 | 0.025
 | 0.025 | 0.025 | 0.025
 | 0.025 | 0.025 | 0.050 | 0.025
 | 0.025 | 0.025 | 0.025 | 0.025
 | 0.025 | 0.025 | 0.025
 | 0.025 | | 0.025 |
| Column C | Vanadium (diss filt) | 1 | - | 20 | 20 | | 20
 | | - | 0.350 | 0.705 | 0.360
 | 2 040 | 1 694 | 0.922
 | 0.125 | 0.125 | 0.660 | 0.807
 | 0.266 | 0.657 | 0.731 | 0.273
 | 0.270 | 0.125 | 0.125
 | 0.600 | + + | 0.125 | | | | |
| Problem Prob | | ug/I | | | | _ |
 | | | 2.330 | 2,703 |
 | 2.540 | |
 | | | |
 | | | 31 | 2.273
 | 2.270 | -123 | 3.123
 | 2.000 | | |
| Column C | Phenois Total | | | | | 100.00 | 22.50
 | | | 22.50 | 22.50 | 22.50
 | 22.50 | 22.50 | 22.50
 | 22.50 | 22.50 | 720.00 | 22.50
 | 22.50 | 610.00 | 240.00 | 140.00
 | 90.00 | 250.00 | 22.50
 | | 460.00 | 22.50 |
| Marging | Speciated TPH | ug/l | | | | | _
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| C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C- | Aliphatics | | | | | |
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| ## COLOR 10 10 11 12 13 13 13 13 13 13 | EC CS-C6 | | | | | 10 | 10
 | 10 | 10 | 10 | 10 | 10
 | | 10 | | | | | |
 | | | 10 |
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 | 10 | 10 |
 | | 10 | 10 |
| ## COLOR 10 11 12 13 14 15 15 15 15 15 15 15 | EC>C6-C8 | 15000 (7) | | | | |
 | 12.5 | | 12.5 | |
 | | 12.5 |
 | 12.5 | 12.5 | |
 | | | |
 | | |
 | _ | | 12.5 |
| ## CCCCCCC ## CCCCCCCCCCCCCCCCCCCCCCCCC | EC>C8-C10 | | | | | 7.5 | 7.5
 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5
 | 7.5 | 7.5 | 7.5
 | 7.5 | 7.5 | 7.5 | 7.5
 | 7.5 | 7.5 | 7.5 | 7.5
 | 7.5 | 7.5 | 7.5
 | _ | 7.5 | 7.5 |
| ## CASCAC 107) | EU>C10-C12 | 300 (7) | | - | + | 440 | 5
 | | - | | | -
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 | - | |
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| ## COLOR 10 10 10 10 10 10 10 1 | EC>C12-C16 | 300 (1) | | _ | _ | | 5
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| Control Cont | FC>C35-C44 | | | | _ | |
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| CO 99 100 100 100 100 100 100 100 100 100 | | | _ | | | _ |
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| CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC | EC CS-C7 | | _ | | | 19.4 | 136.6
 | 2644,753 | 1961.964 | 1 | 1 | 1
 | 1 | 3733.535 | 2779.153
 | 3229.508 1 | 1055.502 | 3.056 | 13.46
 | 3.998 | 4.232 | 4655.122 | 4776.867
 | 1909,462 | 3243.325 | 66,642
 | | 2590,592 | 1 |
| CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC | EC>C7-C8 | | | | | 281 | 24.8
 | 206.841 | 713.365 | 8.753 | 7.784 | 2.5
 | 5.106 | 353.386 | 239.338
 | 380.924 | 329.647 | 6.717 | 2.5
 | 9.79 | 5.344 | 2023.633 | 2329,426
 | 987.048 | 1503.425 | 2.5
 | | 743.276 | 2.5 | | | | |
| CCC1215 | EC>C8-C10 | | | | | |
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| Column C | | | | | | |
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| C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C- | | 90 (7) | | | | 300 | 5
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| Beare State March And March (Fift And March (Fift) And March | | 90 (7) | | | | 150 | 5
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| Times | | | | | | |
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| ## Complement | Benzene | 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) | | | | |
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 | | |
 | | | |
| ## Appendix | Ethylhenzene | 74 (AA) 55th ale (350) (1), 74 (AA) 55th ale (370) (2) | | | + | |
 | | | | 2.42 | 0.50
 | | | |
 | | | |
 | U.SU
E.O1 | | |
 | | | 2.49
 | _ | | 0.50 | | | | |
| Solver | | **** | _ | | | |
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 | | | |
 | | | 1.00
 | | | 1.00 | | | | |
| Second | | | _ | | | |
 | | | | |
 | 0.50 | 25.50 | 12.44
 | 23.43 | 17.35 | 1.46 | | | | |
 | | | 42.49 |
 | | |
 | | | |
| Supplement (a) | Sum of detected Xvlenes | 500 (8) | | | | 132.90 |
 | | 360.13 | 1.50 | 4.29 | 4.84
 | 5.00 | 65.10 | 29.00
 | 55.05 | 44.92 | 5.09 | 1.50
 | 4.29 | 5.02 | 134.04 | 161.01
 | 103.73 | 137.63 | 1.50
 | | | | | | | |
| Appendix Company Com | Polyaromatic Hydrocabons | μg/l | | | | |
 | | | | |
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 | | | |
 | | |
 | | 43.17 | |
| Comprehension Comprehensio | | 2 (AA) (1 &2) 130 (MAC 1&2) | | | | |
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 | | | |
| Proceed (a) 1.07 0.50 1.08 1.07 0.00 | | - | | | | 622.980 | 39.036
 | 811.681 | 567.396 | 1.076 | 0.447 | 0.373
 | 0.438 | 3.589 |
 | | 1462.373 | 0.667 | 5.422
 | 4.374 | 13.312 | | 1013.751
 | 137.957 | 4832.956 | 0.718
 | | 102.600 | |
| Present Present (a) | | | | | | 4.628 | 1.496
 | 10.284 | 11.214 | 0.022 | 0.022 | 0.003
 | 0.013 | 0.427 | 13.152
 | 47.740 | 23.433 | | 0.535
 | 0.360 | 0.987 | 0.014 | 141.464
 | 21.355 | 606.708 | 0.102
 | | 102.600
10.113 | 0.005 |
| ## Affirement (a) - **Company (a) **Company | | | | | | 4.628
29.269 | 1.496
5.490
 | 10.284
92.947 | 11.214
27.577 | 0.022 | 0.022 | 0.003
 | 0.013
0.115 | 0.427 | 13.152
25.160
 | 47.740
21.872 | 23.433
48.532 | 0.066 | 0.535
0.312
 | 0.360
0.578 | 0.987 | 0.014 | 141.464
83.531
 | 21.355
17.615 | 606.708
72.806 | 0.102
 | | 102,600
10,113
3,426 | 0.005 |
| Company Comp | Fluorene (aq) | | | | | 4.628
29.269
1.697 | 1.496
5.490
0.367
 | 10.284
92.947
5.393 | 11.214
27.577
3.713 | 0.022
0.065
0.048 | 0.022
0.045
0.025 | 0.003
0.044
0.088
 | 0.013
0.115
0.107 | 0.427
0.001
0.712 | 13.152
25.160
2.055
 | 47.740
21.872
9.497 | 23.433
48.532
5.683 | 0.066
0.049 | 0.535
0.312
0.125
 | 0.360
0.578
0.335 | 0.987
0.761
0.223 | 0.014
0.009
1.491 | 141.464
83.531
30.941
 | 21.355
17.615
10.325 | 72.806
33.606 | 0.102
0.058
0.029
 | | 102.600
10.113
3.426
0.354 | 0.005
0.012
0.009 |
| Printe (ad) | Fluorene (aq) Phenanthrene (aq) | 01/AAR MAY/(E.2) | | | | 4.628
29.269
1.697
1.051 | 1.496
5.490
0.367
0.234
 | 10.284
92.947
5.393
2.078 | 11.214
27.577
3.713
0.664 | 0.022
0.065
0.048
0.078 | 0.022
0.045
0.025
0.060 | 0.003
0.044
0.088
0.011
 | 0.013
0.115
0.107
0.104 | 0.427
0.001
0.712
0.694 | 13.152
25.160
2.055
1.870
 | 47.740
21.872
9.497
1.984 | 23.433
48.532
5.683
4.005 | 0.066
0.049
0.112 | 0.535
0.312
0.125
0.121
 | 0.360
0.578
0.335
0.139 | 0.987
0.761
0.223
0.198 | 0.014
0.009
1.491
1.362 | 141.464
83.531
30.941
37.706
 | 21.355
17.615
10.325
5.254 | 72.806
33.606
30.319 | 0.102
0.058
0.029
0.043
 | | 102.600
10.113
3.426
0.354
0.194 | 0.005
0.012
0.009
0.030 |
| Description Proceedings | Fluorene (aq) Phenanthrene (aq) Anthracene (aq) | 0.1 (AA & MAC) (1 & 2)
0.0063 (AA) (1 & 2) 0.12 (MAC 1) | | | | 4.628
29.269
1.697
1.051
0.027 | 1.496
5.490
0.367
0.234
0.020
 | 10.284
92.947
5.393
2.078
0.058 | 11.214
27.577
3.713
0.664
0.022 | 0.022
0.065
0.048
0.078
0.003 | 0.022
0.045
0.025
0.060
0.039 | 0.003
0.044
0.088
0.011
0.007
 | 0.013
0.115
0.107
0.104
0.035 | 0.427
0.001
0.712
0.694
0.051 | 13.152
25.160
2.055
1.870
1.164
 | 47.740
21.872
9.497
1.984
0.999 | 23.433
48.532
5.683
4.005
1.012 | 0.066
0.049
0.112
0.024 | 0.535
0.312
0.125
0.121
0.079
 | 0.360
0.578
0.335
0.139
0.080 | 0.987
0.761
0.223
0.198
0.071 | 0.014
0.009
1.491
1.362
0.098 | 141.464
83.531
30.941
37.706
13.097
 | 21.355
17.615
10.325
5.254
4.055 | 72.806
33.606
30.319
0.761 | 0.102
0.058
0.029
0.043
0.003
 | | 102.600
10.113
3.426
0.354
0.194
0.126 | 0.005
0.012
0.009
0.030
0.003 |
| Organic (at) Orga | Fluorene (aq) Phenanthrene (aq) Anthracene (aq) Fluoranthene (aq) | 0.1 (AA & MAC) (1 & 2)
0.0063 (AA) (1 & 2) 0.12 (MAC 1) | | | | 4.628
29.269
1.697
1.051
0.027
0.096
0.079 | 1.496
5.490
0.367
0.234
0.020
0.044
 | 10.284
92.947
5.393
2.078
0.058
0.034
0.028 | 11.214
27.577
3.713
0.664
0.022
0.018
0.012 | 0.022
0.065
0.048
0.078
0.003
0.013 | 0.022
0.045
0.025
0.060
0.039
0.024 | 0.003
0.044
0.088
0.011
0.007
0.023
0.029
 | 0.013
0.115
0.107
0.104
0.035
0.038 | 0.427
0.001
0.712
0.694
0.051
0.022
0.029 | 13.152
25.160
2.055
1.870
1.164
0.102
 | 47.740
21.872
9.497
1.984
0.999
1.157
0.307 | 23.433
48.532
5.683
4.005
1.012
0.277
0.174 | 0.066
0.049
0.112
0.024
0.039
0.018 | 0.535
0.312
0.125
0.121
0.079
0.019
 | 0.360
0.578
0.335
0.139
0.080
0.043
0.074 | 0.987
0.761
0.223
0.198
0.071
0.026
0.049 | 0.014
0.009
1.491
1.362
0.098
0.011 | 141.464
83.531
30.941
37.706
13.097
0.033
0.023
 | 21.355
17.615
10.325
5.254
4.055
0.050
0.056 | 606.708
72.806
33.606
30.319
0.761
0.074
0.074 | 0.102
0.058
0.029
0.043
0.003
0.011
0.008
 | | 102.600
10.113
3.426
0.334
0.194
0.126
0.031
0.028 | 0.005
0.012
0.009
0.030
0.003
0.019
0.013 |
| Description | Fluorene (aq) Phenanthrene (aq) Anthracene (aq) Fluoranthene (aq) Pyrene (aq) | 0.1 (AA & HAC) (1 & 2)
0.0063 (AA) (1 & 2) 0.12 (MAC 1) | | | | 4.628
29.269
1.697
1.051
0.027
0.096
0.079
0.013 | 1.496
5.490
0.367
0.234
0.020
0.044
0.060
0.013
 | 10.284
92.947
5.393
2.078
0.058
0.034
0.028
0.005 | 11.214
27.577
3.713
0.664
0.022
0.018
0.012
0.005 | 0.022
0.065
0.048
0.078
0.003
0.013
0.006
0.002 | 0.022
0.045
0.025
0.060
0.039
0.024
0.011
0.005 | 0.003
0.044
0.088
0.011
0.007
0.023
0.029
0.003
 | 0.013
0.115
0.107
0.104
0.035
0.038
0.024
0.003 | 0.427
0.001
0.712
0.694
0.051
0.022
0.029
0.001 | 13.152
25.160
2.055
1.870
1.164
0.102
0.039
0.010
 | 47.740
21.872
9.497
1.984
0.999
1.157
0.307
0.021 | 23.433
48.532
5.683
4.005
1.012
0.277
0.174
0.003 | 0.066
0.049
0.112
0.024
0.039
0.018 | 0.535
0.312
0.125
0.121
0.079
0.019
0.013
0.003
 | 0.360
0.578
0.335
0.139
0.080
0.043
0.074 | 0.987
0.761
0.223
0.198
0.071
0.026
0.049
0.003 | 0.014
0.009
1.491
1.362
0.098
0.011
0.009 | 141.464
83.531
30.941
37.706
13.097
0.033
0.023
0.003
 | 21.355
17.615
10.325
5.254
4.055
0.050
0.056
0.003 | 606.708
72.806
33.606
30.319
0.761
0.074
0.074 | 0.102
0.058
0.029
0.043
0.003
0.001
0.008
 | | 102,600
10,113
3,426
0,354
0,194
0,126
0,031
0,028 | 0.005
0.012
0.009
0.030
0.003
0.019
0.013 |
| | Fluorene (aq) Phenanthrene (aq) Anthracene (aq) Fluoranthene (aq) Pyrene (aq) Benzo(a)anthracene (aq) Chrysene (aq) | 0.0063 (AA) (1 & 2) 0.12 (MAC 1)
-
- | | | | 4.628
29.269
1.697
1.051
0.027
0.096
0.079
0.013
0.018 | 1.496
5.490
0.367
0.234
0.020
0.044
0.060
0.013
0.020
 | 10.284
92.947
5.393
2.078
0.058
0.034
0.028
0.005 | 11.214
27.577
3.713
0.664
0.022
0.018
0.012
0.005 | 0.022
0.065
0.048
0.078
0.003
0.013
0.006
0.002 | 0.022
0.045
0.025
0.060
0.039
0.024
0.011
0.005 | 0.003
0.044
0.088
0.011
0.007
0.023
0.029
0.003
 | 0.013
0.115
0.107
0.104
0.035
0.038
0.024
0.003
0.007 | 0.427
0.001
0.712
0.694
0.051
0.022
0.029
0.001
0.002 | 13.152
25.160
2.055
1.870
1.164
0.102
0.039
0.010
0.007
 | 47.740
21.872
9.497
1.984
0.999
1.157
0.307
0.021 | 23.433
48.532
5.683
4.005
1.012
0.277
0.174
0.003
0.004 | 0.066
0.049
0.112
0.024
0.039
0.018
0.004 | 0.535
0.312
0.125
0.121
0.079
0.019
0.013
0.003
 | 0.360
0.578
0.335
0.139
0.080
0.043
0.074
0.001 | 0.987
0.761
0.223
0.198
0.071
0.026
0.049
0.003
0.005 | 0.014
0.009
1.491
1.362
0.098
0.011
0.009
0.001 | 141.464
83.531
30.941
37.706
13.097
0.033
0.023
0.003
 | 21.355
17.615
10.325
5.254
4.055
0.050
0.056
0.003 | 606.708
72.806
33.606
30.319
0.761
0.074
0.074
0.004 | 0.102
0.058
0.029
0.043
0.003
0.011
0.008
0.001
 | | 102.500
10.113
3.426
0.354
0.194
0.126
0.031
0.028
0.003 | 0.005
0.012
0.009
0.030
0.003
0.019
0.013
0.004 |
| | Fluorene (aq) Phenanthrene (aq) Anthracene (aq) Fluoranthene (aq) Pyrene (aq) Benzo(a)anthracene (aq) Ctrysene (aq) Benzo(b)fluoranthene (aq) | 0.0063 (AA) (1 & 2) 0.12 (MAC 1) | | | | 4.628
29.269
1.697
1.051
0.027
0.096
0.079
0.013
0.018
0.008 | 1.496
5.490
0.367
0.234
0.020
0.044
0.060
0.013
0.020
0.005
 | 10.284
92.947
5.393
2.078
0.058
0.034
0.028
0.005
0.007 | 11.214
27.577
3.713
0.664
0.022
0.018
0.012
0.005
0.010
0.007 | 0.022
0.065
0.048
0.078
0.003
0.013
0.006
0.002
0.004 | 0.022
0.045
0.025
0.060
0.039
0.024
0.011
0.005
0.005 | 0.003
0.044
0.088
0.011
0.007
0.023
0.029
0.003
0.007
 | 0.013
0.115
0.107
0.104
0.035
0.038
0.024
0.003
0.007 | 0.427
0.001
0.712
0.694
0.051
0.022
0.029
0.001
0.002 | 13.152
25.160
2.055
1.870
1.164
0.102
0.039
0.010
0.007
0.007
 | 47.740
21.872
9.497
1.984
0.999
1.157
0.307
0.021
0.026 | 23.433
48.532
5.683
4.005
1.012
0.277
0.174
0.003
0.004
0.009 | 0.066
0.049
0.112
0.024
0.039
0.018
0.004
0.007 | 0.535
0.312
0.125
0.121
0.079
0.019
0.013
0.003
0.003
 | 0.360
0.578
0.335
0.139
0.080
0.043
0.074
0.001
0.009 | 0.987
0.761
0.223
0.198
0.071
0.026
0.049
0.003
0.005
0.002 | 0.014
0.009
1.491
1.362
0.098
0.011
0.009
0.001
0.002 | 141.464
83.531
30.941
37.706
13.097
0.033
0.023
0.003
0.005
 | 21.355
17.615
10.325
5.254
4.055
0.050
0.056
0.003
0.005 | 606.708
72.806
33.606
30.319
0.761
0.074
0.074
0.004
0.006 | 0.102
0.058
0.029
0.043
0.003
0.011
0.008
0.001
0.001
0.003
 | | 102.600
10.113
3.426
0.354
0.194
0.126
0.031
0.028
0.003
0.003 | 0.005
0.012
0.009
0.030
0.003
0.019
0.013
0.004
0.007 |
| Demosic Apherbracene (a) Demosic Apherbracen | Fluorene (aq) Phenanthrene (aq) Anthracene (aq) Fluoranthene (aq) Fluoranthene (aq) Pyrene (aq) Benzo(a)anthracene (aq) Crysene (aq) Benzo(b)fluoranthene (aq) Benzo(b)fluoranthene (aq) | 0.0063 (AA) (1 & 2) 0.12 (MAC 1) | | | | 4.628
29.269
1.697
1.051
0.027
0.096
0.079
0.013
0.018
0.008 | 1.496
5.490
0.367
0.234
0.020
0.044
0.060
0.013
0.020
0.005
0.015
 | 10.284
92.947
5.393
2.078
0.058
0.034
0.028
0.005
0.007 | 11.214
27.577
3.713
0.664
0.022
0.018
0.012
0.005
0.010
0.007 | 0.022
0.065
0.048
0.078
0.003
0.013
0.006
0.002
0.002
0.003 | 0.022
0.045
0.025
0.060
0.039
0.024
0.011
0.005
0.005
0.005 | 0.003
0.044
0.088
0.011
0.007
0.023
0.029
0.003
0.007
0.005
0.003
 | 0.013
0.115
0.107
0.104
0.035
0.038
0.024
0.003
0.007
0.005
0.005 | 0.427
0.001
0.712
0.694
0.051
0.022
0.029
0.001
0.002 | 13.152
25.160
2.055
1.870
1.164
0.102
0.039
0.010
0.007
0.004
0.004
 | 47.740
21.872
9.497
1.984
0.999
1.157
0.307
0.021
0.026
0.016 | 23.433
48.532
5.683
4.005
1.012
0.277
0.174
0.003
0.004
0.009
0.005 | 0.066
0.049
0.112
0.024
0.039
0.018
0.004
0.007
0.003 | 0.535
0.312
0.125
0.121
0.079
0.019
0.013
0.003
0.003
0.003
0.003
 | 0.360
0.578
0.335
0.139
0.080
0.043
0.074
0.001
0.009
0.002
0.001 | 0.987
0.761
0.223
0.198
0.071
0.026
0.049
0.003
0.005
0.002 | 0.014
0.009
1.491
1.362
0.098
0.011
0.009
0.001
0.002 | 141.464
83.531
30.941
37.706
13.097
0.033
0.023
0.003
0.005
0.004
 | 21.355
17.615
10.325
5.254
4.055
0.050
0.056
0.003
0.005
0.005
0.002 | 606.708
72.806
33.606
30.319
0.761
0.074
0.004
0.006
0.009 | 0.102
0.058
0.029
0.043
0.003
0.011
0.008
0.001
0.003
0.002
0.002
 | | 102.600
10.113
3.426
0.354
0.194
0.126
0.031
0.023
0.003
0.005
0.005 | 0.005
0.012
0.009
0.030
0.003
0.019
0.013
0.004
0.007
0.006
0.005 |
| 1066/04/CS | Fluorenc (ag) Phenanthrenc (ag) Anthracenc (ag) Anthracenc (ag) Fluoranthenc (ag) Pyrenc (ag) Benzo(a)anthracenc (ag) Crysenc (ag) Benzo(b)fluoranthenc (ag) Benzo(k)fluoranthenc (ag) Benzo(k)fluoranthenc (ag) | 0.0063 (AA) (1 & 2) 0.12 (MAC 1) | | | | 4.628
29.269
1.697
1.051
0.027
0.096
0.079
0.013
0.018
0.008
0.008 | 1.496
5.490
0.367
0.234
0.020
0.044
0.060
0.013
0.020
0.005
0.015
0.026
 | 10.284
92.947
5.393
2.078
0.058
0.034
0.028
0.005
0.007
0.012
0.001 | 11.214
27.577
3.713
0.664
0.022
0.018
0.012
0.005
0.010
0.007
0.005 | 0.022
0.065
0.048
0.078
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0.013
0.006
0.002
0.004
0.003
0.002 | 0.022
0.045
0.025
0.060
0.039
0.024
0.011
0.005
0.005
0.001
0.009 | 0.003
0.044
0.088
0.011
0.007
0.023
0.029
0.003
0.007
0.005
0.005
 | 0.013
0.115
0.107
0.104
0.035
0.038
0.024
0.003
0.007
0.005
0.003 | 0.427
0.001
0.712
0.694
0.051
0.022
0.029
0.001
0.002
0.001
0.002 | 13.152
25.160
2.055
1.870
1.164
0.102
0.039
0.010
0.007
0.004
0.004
 | 47.740
21.872
9.497
1984
0.999
1.157
0.307
0.021
0.026
0.016
0.018 | 23.433
48.532
5.683
4.005
1.012
0.277
0.174
0.003
0.004
0.009
0.005
0.018 | 0.066
0.049
0.112
0.024
0.039
0.018
0.004
0.007
0.003
0.003 | 0.535
0.312
0.125
0.121
0.079
0.019
0.013
0.003
0.003
0.003
0.003
 | 0.360
0.578
0.335
0.139
0.080
0.043
0.074
0.001
0.009
0.002
0.002
0.001 | 0.987
0.761
0.223
0.198
0.071
0.026
0.049
0.003
0.005
0.002
0.003 | 0.014
0.009
1.491
1.362
0.098
0.011
0.009
0.001
0.002
0.001
0.002 | 141.464
83.531
30.941
37.706
13.097
0.033
0.023
0.003
0.005
0.005
0.000
0.003
 | 21.355
17.615
10.325
5.254
4.055
0.050
0.056
0.003
0.005
0.002
0.002 | 72.806
33.606
33.606
30.319
0.761
0.074
0.004
0.006
0.009
0.009 | 0.102
0.058
0.029
0.043
0.003
0.011
0.008
0.001
0.003
0.002
0.001
0.003
 | | 102.600
10.113
3.426
0.354
0.194
0.126
0.031
0.028
0.003
0.005
0.004 | 0.005
0.012
0.009
0.030
0.003
0.019
0.013
0.004
0.007
0.005
0.005 |
| 1066/04/CS | Fluorene (aq) Phenanthrene (aq) Anthracene (aq) Fluoranthene (aq) Pyrene (aq) Benzo(a)anthracene (aq) Crysene (aq) Benzo(b)fluoranthene (aq) Benzo(b)fluoranthene (aq) Benzo(a)pyrene (aq) Inden(1,23-cd)yrene (aq) | 0.0063 (AA) (1 & 2) 0.12 (MAC 1) | | | | 4.628
29.269
1.697
1.051
0.027
0.096
0.079
0.013
0.018
0.008
0.008 | 1.496 5.490 0.367 0.234 0.020 0.044 0.060 0.013 0.020 0.005 0.015 0.026 0.008
 | 10.284
92.947
5.393
2.078
0.058
0.034
0.002
0.005
0.007
0.001
0.001
0.001
0.057 | 11.214
27.577
3.713
0.664
0.022
0.018
0.012
0.005
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The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
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MAC: This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AK-EQS values are considered protective against short term pollution peaks in continuous discharges since they are significantly lower than the values derived no the Superior Standard

Note: 1-COCHOCON Solide derived via the Metal Biospatial Sity Assument Tod (M. ART) developed by MFDTAG. Look at neceptor specific assument using the Mr. Most 1-CoCHOCON and Co. to derive a 10th referred to a 16th MFMC. Solidered. http://www.add.kc.org/incounters/forer-sider metal bloowed belliny-assument tool in bott.

Note 2-COCHOCON and Co. to derive a 10th referred to a 16th MFMC. Assument Tod (M. ART) developed by MFDTAG. Look at receptor specific assument using the Mr. Note 2-COCHOCON and Co. to developed by MFMC. Assument Tod (M. ART) developed by MFDTAG. Look at receptor specific assument using the Mr. Note 2-COCHOCON and Co. to developed by MFMC. Assument Tod (M. ART) developed by MFDTAG. Look at receptor specific assument using the Mr. Note 1 coch in the MFMC. Assument Tod (M. ART) developed by MFDTAG. Look at receptor specific assument using the Mr. Note 1 coch in the MFMC. Assument Tod (M. ART) developed by MFDTAG. Look at receptor specific assument using the Mr. Note 1 coch in the MFMC. Assument Tod (M. ART) developed by MFDTAG. Look at receptor specific assument using the Mr. Note 1 coch in the MFMC. Assument Tod (M. ART) developed by MFDTAG. Look at receptor specific assument using the MFMC. Assument Tod (M. ART) developed by MFDTAG. Look at receptor specific assument using the MFMC. Assument Tod (M. ART) developed by MFDTAG. Look at receptor specific assument using the MFMC. Assument Tod (M. ART) developed by MFDTAG. Look at receptor specific assument using the MFMC. Assument Tod (M. ART) developed by MFDTAG. Look at receptor specific assument using the MFMC. Assument Tod (M. ART) developed by MFDTAG. Look at receptor specific assument using the MFMC. Assument Tod (M. ART) developed by MFDTAG. Look at receptor specific assument using the MFMC. Assument Tod (M. ART) for the MFDTAG. Look at receptor specific assument using the MFMC. Tod (M. ART) for the MFDTAG. Look at the MFDTAG. Look at the MFDTAG. Look at the MFDTAG. Look at the MFDTAG. Look at the MFDTAG. Look at the MFDTAG. Look at the MFDTAG

Sample Point / Determinands	TSV	MBAT PNEC	BH406			BH407		BH408	BH409	BH410	BH411		вн	15					BH6 (Lynch	es)					
HEAVY METALS Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		9.21	11/08/2021	3.93	04/08/2021 11/08/2021 5.32	5.25	26/04/2021 11/08/2021 0.52	26/01/2022	26/01/2022	0.38	08/01/2019	09/01/2019 10.00	11/04/2019	19/02/2020	11/04/2019	01/05/2019	10.00	24/07/2019	15/10/2019	05/11/2019	06/11/2019	15/10/2020	15/10/2019	31/10/2019
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l	+	0.540		0.025	0.025	0.025	0.025	0.70	0.025	0.336		1,000	1,000	1.000	1,000		1,000		1,000			1.000	1,000	
Chromium (diss.filt)	50 (5)		0.663		0.025	0.125	0.125	0.025	0.000	0.025	0.125		2.500	0.250	0.250	0.250		0.250		0.250			0.125	2.000	
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94	2.481		0.125	0.500	0.125	0.125	0.125	0.338	1.203		2.500	2.500	2.500	9.710		6.100		2.500			2.500	2.500	
Iron (diss.)			8051		1628	20	211	20	5386	537	181		20	20	20	18600		13200		8770			9172	588	
Iron (diss.) Mercury (diss.filt)	0.07 MAC (1&2)		0.0025		0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025		0.0025	0.0025	0.0025			0.0025		0.0025			0.0025	0.0025	
Manganese (diss.filt)	123 (AA) (*********************************	276.92	18300		3301.436372	2362.356428	2760.002588	849.378608	27400	21100	6450		3770	191	5	2370		1680		2670			2088.661116	17200	
Molybdenum (diss.filt) Nirkel (diss.filt)	70 (8) ? 4************************************	14.98				12.01	11 77	4.73			16.89							2.50		2.50			2.50	53.20	
Nickel (diss.filt) Lead (diss.filt)	1.2(sas nos 3) (AA) (1), 1.3 (AA) (2), 34 (MAC) (1&2)	14.98 9.64	28.40		3.62				19.82	44.50			21.50	2.50	2.50	2.50									
Antimony (diss.fit)	1.2" (AA) (1), 1.3 (AA) (2), 14 (MAC) (102)	9.04	0.371081313		0.125	0.125	0.125	0.125	0.125	0.125	0.125		10	10	10	10		10		10			10	10	$\overline{}$
Selenium (diss,filt)	10(5)	10	0.23		0.10	0.10	0.10	0.10	0.24	0.22	0.10			0.50	0.50	0.50		0.50		0.50			0.10	0.50	
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (100 HOUR 2)	37.15	6.31		0.50	0.50	0.50	42.50	8.50	9.79	1.33		4.00	2.36	1.00	2.58		1.00		2.27			2.36	8.90	
Iron (Total)			20100		16300	4794.039412	43100	553.8874803	57100	59800	9748.281336														
Manganese (Total)			18700		3620	2482.86751	3580		29500	24000	6770														
Chromium III (diss.fit) Chromium VI (diss.fit)	4.7 (AA) (1) 95th%ile (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.66		0.13	0.13	0.13	0.13	0.13	0.34	0.13			0.25	0.25	0.25		0.25		0.25			0.13	1.00	
Aluminium (diss.filt)	3.4 (AA) (1), 0.0 (AA) (2), 32 (3001/010) (2)	+	0.025	-	0.025 20	0.025	0.025 20	0.025 20	0.025	0.025 20	0.025 20		20	0.025	0.063	0.025 20	-	0.025		0.025			0.025 20		
Vanadium (diss.fit)		+	0.263	t	0.125	20 0.125	0.125	0.125	0.125	0.125	0.125	l	20	20	20	20		20		20			0.125	20	
Phenois	ug/l				0.025																		5.02.5		
Phenols, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2)			22.50	150.00	340.00	250.00	22.50	22.50	22.50	22.50				22.50		22.50		22.50			22.50	22.50		
Speciated TPH	ug/l																								
Aliphatics EC CS-C6	15000 (7)				_																				
EC CS-C6 EC>C6-C8	15000 (7) 15000 (7)	1	+	10 12.5	10 12.5	10	10	10 12.5	10 12.5	10	10		_		10		10		10		_	10	10 12.5		10 12.5
EC>C8-C10	15000 (7)	1	+	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5		+		7.5		7.5		7.5			7.5	7.5		7.5
EC>C10-C12	300 (7)	+	+		1.5	/.3		1-2				l	1		5		5	l	5	l		5		1	
EC>C12-C16	300 (7)														5		5		5			5			-
EC>C16-C21															5		5		5			5			
EC>C21-C35 EC>C35-C44															5		5		5			5			
															5		5		5			5			
Aromatics FC CS-C7	10 (7)	+		11.003	3.011	2 556	3.88	4		1368 17	2.476				-1				-			-	-		1
EC>C7-C8	700 (7)	_		2.5	2.5	2.5	5.507	2.5	2.5	63.838	2.5				2.5		2.5		2.5			2.5	2.5		2.5
EC>C8-C10	300 (7)				2	A.3	3.307			03.030					2.3		25						2.3		
EC>C10-C12	90 (7)														5		5		5			5			
EC>C12-C16	90 (7)														5		5		5			5			
EC>C16-C21	90 (7)														5		5		5			5			
EC>C21-C35	90 (7) 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)	_	_	10.73	0.50	1.16	3.21	0.50	0.50	1348.67	2.20		_		0.50		5 0.50		0.50			0.50	0.50		0.50
Benzene Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)	+		0.50	2.26	1.40	0.50	0.50	0.50	19.50	0.50				0.50		0.50		0.50			0.50	0.50		0.50
Ethylbenzene	300 (8)			0.50	0.50	0.50	0.50	0.50	0.50	22.25	0.50				0.50		0.50		0.50			0.50	0.50		0.50 0.50
p/m-Xylene				1.00	1.00	1.00	1.00	1.00	1.00	10.94	1.00				1.00		1.00		1.00			1.00	1.00		1.00 0.50
o-Xylene				0.50	0.50	0.50	0.50	0.50	0.50	11.15	0.50				0.50		0.50		0.50			0.50	0.50		0.50
Sum of detected Xylenes	500 (8)			1.50	1.50	1.50	1.50	1.50	1.50	22.09	1.50				1.50				1.50			1.50	1.50		1.50
Polyaromatic Hydrocabons Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)			0.550	0.144	1 709	0.799	0.046	0.466	272 306	0.515				0.369		0.004		0.044			0.702	0.021		
Acenaphthylene (aq)	1 (AA) (1 UL) 150 (AAC 1UL)			0.071		0.216		0.002	0.122	47.228	0.114		t t		0.010		0.014		0.009			0.028	0.002		
Acenaphthene (aq)				0.881	0.030	0.171	0.046	0.003	0.204	36.484	0.094				0.032		0.005		0.022			0.056	0.002		
Fluorene (aq)	•			0.078	0.018	0.069	0.035	0.002	0.083	2.821	0.189				0.010		0.041		0.024			0.055	0.002		
Phenanthrene (aq)	0.1 (AA & MAC) (1 & 2)			0.062		0.071	0.125	0.003	0.112	3.735	0.066				0.051		0.145		0.060			0.168			
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)			0.041	0.003	0.046	0.009	0.003	0.024	0.359	0.024				0.003		0.033		0.003			0.003	0.003		
Fluoranthene (aq) Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)	1	1	0.007	0.012	0.004	0.068	0.004	0.152	0.348	0.340	-	1		0.012		0.096	l	0.011			0.042	0.009		
Benzo(a)anthracene (aq)	-	+	+	0.001	0.001	0.002		0.003	0.091	0.058	0.002		1		0.006		0.153	l	0.002	l		0.020	0.011	1	$\overline{}$
Chrysene (aq)	•			0.003		0.004		0.001	0.083	0.054	0.003				0.008		0.151		0.003			0.026	0.016		=
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)	1			0.001	0.005	0.008	0.001	0.100	0.042	0.002				0.005		0.315		0.005			0.017	0.012		
Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))			0.002		0.005		0.001	0.088	0.055	0.003				0.006		0.293		0.004			0.028	0.011		
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	1	+	0.004	0.001	0.004	0.008	0.001	0.216	0.091	0.021		_		0.012		0.330 0.230		0.003		_	0.030	0.023		
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a h)anthracene (aq)		1	+	0.002			0.005	0.002	0.192	0.085	0.001		+		0.002		0.230		0.002			0.022	0.009		$\overline{}$
Benzo(a.h.i)pervlene (ag)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	+	+		0.002		0.002		0.146	0.013	0.001		1		0.002		0.143	l	0.004	l		0.017	0.007	1	
INORGANICS	mg/l																								
Dissolved Organic Carbon				34.9	248	233	308.1	4.9	13.5	28.5	4.6	2		2.2	3.8		3.4		2.3		3.9		3.3		36.5
pH_	6 - 9 (2&4)	1	-	7.7	7.2 400	7.8	7.6	7.3	6.7	6.8 853	7.2	6.4	1	6.8	7.5		6.8 94		7.3 78		6.9 119		6.5		6.9
Alkalinity (Total) Chloride	250 (5)	+	+	170	400	149	491 194	148 108	679 137	853 160	340 53	294 17		205	192 40		94		78		119 42		85 32		1240 192
Ammoniacal Nitrogen	230 (3)	1	+	66.89	1.1	0.2	0.2	2.05	0.53	24.93	5.44	0.5	_	0.2	0.2		0.74		0.61		0.8		0.67		67.38
Nitrite		1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.007		0.01	0.01		0.01		0.01		0.01		0.01		0.01
Nitrate	50 (5) 250 (5)			0.125	0.125	0.125	0.125	0.125	0.125	0.125	1.31	3.68		6.3	1.01		0.15		0.125		0.125		1.28		0.125
Sulphate	250 (5)	1	13.05		4.76	24.28	10.00	37.62	114.80	89.50	44.45		35.30	82.50	118.00	10.50		13.10		12.20			15.55	21.70	
Sulphide			l		l		-	I		l															
Calcium Potassium		+	267.00 63.51	 	158.00 4.31	142.57	171.00 2.42	70.09	165.00 2.17	217.00 70.02	104.45 15.62	-	97.20 5.87	110.00	119.00 9.17	29.40 3.81	-	29.70 4.79		38.30 4.64			39.00 5.17	271.00 72.40	
Magnesium Magnesium		1	49 99	 	4.31 55.65	49.47	61.43	3.70	52.92	47.00	15.62 24.76		5.87 6.80	818	9.17 8.72	3.81 2.73		4.79 2.85		4.64 3.58	_		3.66	72.40 53.50	
Sodium	200(5)	+	160.00	t	90.84	83.49	110.65	38.49	110.24	157.00	38.77	l	14.00	16.80	23.50	18.80		13.80		23.50			18.77	174.00	
Biochemical Oxygen Demand				2.5	509.0	75.0	45.0	1.5	9.8	6.1	1.5	4.5		2.5	1.5		2.5		1.5		1.5		2.5		2.5
Chemical Oxygen Demand		1		107	744	700	958	10	491	223	10	10		40	10		45		10		10	_	10		104
Conductivity			1	2640	1361	1330	1629	709	1770	2188	900	564		691	741		297	l	267		377		370		2730 0.15
Total Oxidisable Nitrogen Total Phosphorus		+	1	0.15 0.125	0.15	0.15	0.15	0.15	0.15	0.15 0.125	1.31 0.32	3.69		6.3	1.01		0.15	 	0.15	-	0.15		1.28		0.15
Total Pilospilotos	1	1	-	0.125	0.123	0.125	0.123	0.123	u.33	0.125	U.32	0.125		0.123	V.123		0.125		0.125		0.123		0.123		0.123

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Note: Collocovalable derived via the Metal Bioxvalability Assument Tool (M-BAT) developed by WDTAL Look at receptor specific assument using the M-BAT) developed by WDTAL Look at receptor specific assument using the M-BAT (Seveloped by WDTAL Look at receptor specific assument using the M-BAT) developed by WDTAL Look at receptor specific assument using the M-BAT (Seveloped by WDTAL Look at receptor specific assument using the M-BAT tool with plut Coll coll for the Seveloped by WDTAL Look at receptor specific assument using the M-BAT tool with plut Coll coll for the Seveloped by WDTAL Look at receptor specific assument using the M-BAT tool with plut Coll coll for the Seveloped by WDTAL Look at receptor specific assument using the M-BAT tool with plut Coll coll for the Seveloped by WDTAL Look at receptor specific assument using the M-BAT tool with plut Coll coll for the Seveloped by WDTAL Look at receptor specific assument using the M-BAT tool withing Look at receptor specific assument using the M-BAT tool withing Look at receptor specific assument using the M-BAT tool withing Look at receptor specific assument using the M-BAT tool withing Look at receptor specific assument using the M-BAT tool withing Look at receptor specific assument using the M-BAT tool withing Look at receptor specific assument using the M-BAT tool withing Look at receptor specific assument using the M-BAT tool withing Look at receptor specific assument using the M-BAT tool withing Look at receptor specific assument using the M-BAT tool withing Look at receptor specific assument using the M-BAT tool withing Look at receptor specific assument using the M-BAT tool withing Look at receptor specific assument using the M-BAT tool withing Look at receptor specific assument using the M-BAT tool withing Look at receptor specific assument using the M-BAT tool withing Look at receptor specific assument using the M-BAT tool withing Look at the M-BAT tool withing Look at the M-BAT tool withing Look at the M-BAT tool withing Look at the M-BAT tool withing

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)		BH6CIW											BHW1												
HEAVY METALS	μg/l		17/02/2020	19/02/2020 14/	/10/2020	26/04/2021	20/07/2021	27/10/2021	09/01/2019	09/01/2019	10/04/2019	11/04/2019	01/07/2019	05/07/2019	15/10/2019	04/11/2019	19/02/2020	20/02/2020	14/10/2020	26/10/2021	02/02/2022	21/09/2017	05/09/2017	07/09/2017	12/09/2017	14/09/2017	15/09/2017
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		1//02/2020	10.00	10.00	12.58	10.30	8.65	00/01/1015	10.00	10/04/1015	10.00	04/07/2023	10.00	10.00	0-1,11,1013	10.00	20/01/2010	10.00	0.88	0.71	1.70	1.70	1.80	1.79	1.60	13,03,1017
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l				1.000	0.425	0.278	0.293		1.000		1.000		1.000	1.000		1.000		1.000	0.025	0.025	0.025	0.025	0.025	0.025	0.025	
Chromium (diss.filt)	50 (5)				0.662	0.529	0.660	0.608		2.500		3.960		8.800	4.800		1.700		3.405	4.522	2.918	0.425	0.362	0.349	0.349	0.349	
Copper (diss.fit)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94			2.500	0.602	0.654	0.608		15.100		2.500		8.630	5.830		2.500		17.854	0.339	0.379	5.370	4.250	3.460	3.270	2.730	
Iron (diss.) Mercury (diss.filt)	1000 (AA) (182) 0.07 MAC (182)				246	11993	7430	5373		28200		4420		24500	12400		6250		24300	45100	14446	276	304	249	202	243	
Manganese (diss.filt)	123 (AA) (*********************************	276.92		0.0025	0.0025	0.0025	0.0025	14900		0.0025 2120		0.0025 994		0.0025	0.0025		0.0025 543		0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025 340	
Molybdenum (diss.filt)	70 (8) ?			10100	10,00	13100	10000	14000											330.3133313	1104,433407	1032.003400				303		
Nickel (diss.filt)	4 (AA) (1), 8.6 (AA) (2), 34 (MAC) (1&2)	14.98		39.50	43.11	27.70	39.00	38.90		12.40		8.65		9.33	8.17		5.72		5.37		5.62	4.44	3.98		3.72	3.48	
Lead (diss.filt)	1.2 ^(860 7000 3) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64		10	10	0.125	0.237	0.125		10		10		10	10		10		10	0.125	0.125	0.392	0.125	0.125	0.125	0.125	
Antimony (diss.filt)	5 (5)	10		0.50		0.31	0.24	0.26												0.10	0.10	0.29	0.27				
Selenium (diss.filt) Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (MR 70.07.2)	37.15			0.31 6.01	3.93	3.57	2.89	_	7.43		0.50 2.03		0.50 6.97	0.50 2.98		0.50 5.82		0.10 4.10	1.14	5.39	19.80	16.70	0.36 13.70	0.27 13.80	0.33 14.30	
Iron (Total)	10.5 (AA) (1) +ABC bloavallable 0.6 (AA) (2) +ABC	37.15		8.85	6.01	3.93 21500	3.57 24300	17200		7.43		2.03		6.97	2.98		5.82		4.10	1.14 51900	34700	19.80	16.70	13.70	13.80	14.30	
Manganese (Total)						15900	17200	15000												1051.301653	1077,359857						
	4.7 (AA) (1) 95th%ile (32)			0.39	0.66	0.47	0.66	0.61				1.98		4.40	2.40		0.85		3.40	4.52	2.92						
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th*tile) (2)			0.025	0.025	0.062	0.025	0.025				0.025		0.025	0.025		0.025		0.025	0.025	0.025						
Aluminium (diss.filt)				20	20	20	20	20		20		20		51	20		20		20	20	20	50	50	50	696	50	
Vanadium (diss.filt)	ug/l				0.125	0.125	0.300	0.125											1.060	0.507	0.125	0.409	0.243	0.259	0.211	0.191	
Phenois Total	7.7 (1&2) 46 (95th*Gle) (1&2)		350.00		230.00	22.50	22.50	190.00	22.50		120.00		210.00			360.00	22.50		60.00	1070.00	22.50						22.50
Speciated TDH	ug/l		330.00			**-~	44.00	130.00	44.50		110.00		110.00			300.00				1070.00	44.50						**
Aliphatics EC C5-C6																											
EC CS-O6	15000 (7)		10		10	10	10	10	10		10		10			10	10		10	10	10						
EC>C6-C8	15000 (7)	1	12.5		12.5	12.5	12.5	12.5	12.5		12.5		12.5			12.5	12.5		12.5	12.5	12.5		1				
EC>C8-C10 EC>C10-C12	300 (7) 300 (7)		7.5		7.5	7.5	7.5	7.5	7.5		7.5		7.5			7.5	7.5		7.5	7.5	7.5						
EC>C12-C16	300 (7)	<u> </u>	5						5		160 5		230 5		-	5	5						-				
EC>C16-C21	300 (1)		5						20		5					5	5										
EC>C21-C35			5						5		20		5 20			5	5										
EC>C35-C44			5						5		5		5			5	5										
Aromatics FC CS-C7																											
EC C5-C7 EC>C7-O8	10 (7) 700 (7)		13.1		24.4	1	45.96	50.229	1		1		27.6			1	1		9.09		8.298						
EC>C8-C10	300 (7)		2.5		2.5	2.5	5.968	2.5	2.5	_	2.5		97.8			19.1	2.5		15.5	8.588	2.5						
FC>C10-C12	90 (7)		5						5		25 160		230			5	5										
EC>C12-C16	90 (7)		5						5		340		470			5	5										
EC>C16-C21	90 (7)		5						20		280		470			200	5										
EC>C21-C35	90 (7)		5						10		230		320			5	5										
Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)		13.10		24.20	0.50	45.01	49.90	11.60		0.50		25.40			1.20	0.50		9.10	6.24	8.23						0.50
Toluene Ethylbenzene	74 (AA) 95th %ile (380) (1), 74 (AA) 95th %ile (370) (2)		0.50		0.50	0.50	0.50	0.50	0.50 40.50	_	0.50 0.50		2.20			0.50 6.30	0.50		0.50 1.81	0.50	0.50						0.50
p/m-Xviene	300 (6)	<u> </u>	1.00		1.00	1.00	1.00	1.00	7.63		1.00		64.10 19.90		-	5.50	2.00 1.00		6.85	6.40	1.00		-				1.00
o-Xylene			0.50		0.50	0.50	0.50	0.50	5.66		1.00 0.50		11.60			7.30	0.50		6.83	2.02	0.50						0.50 0.50 1.00 0.50
Sum of detected Xvlenes	500 (8)		1.50		1.50	1.50	1.50	1.50					31.50			12.80	1.50			8.42	1.50						
Polyaromatic Hydrocabons	μg/i 2 (AA) (1 &2) 130 (MAC 1&2)																										
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)		0.015 0.029		0.120	1.616	0.745	0.436	0.126		5.108		3.037 0.069			8.140	1.518 0.024		1.027	1.142	1.321						
Acenaphthylene (aq)					0.291	0.087	0.267 3.623	0.622 1.850			0.290 0.943		0.069			0.002			0.054	0.019 0.145							
Acenaphthene (aq) Fluorene (aq)		<u> </u>	0.206		0.053	0.033	3.623 0.250	0.200	0.019		0.943		0.208		-		0.111		0.300		0.293		-				
Phenanthrene (aq)	•		0.031		0.025	0.294	0.176	0.124	0.028		0.909		0.359				0.116		0.194		0.513						
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)		0.034		0.056	0.007	0.128	0.175	0.003		0.065		0.007			0.085	0.023		0.022	0.060	0.030						
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)		800.0		0.011	0.267	0.011	0.026	0.009		0.299		0.416			0.669	0.030		0.108	0.166	0.327						
Pyrene (aq)	-		0.011		0.007	0.075	0.007	0.025	0.012		0.566		0.797			0.510	0.044		0.175		0.460						
Benzo(a)anthracene (aq)		1	0.001		0.001	0.001	0.004	0.001	0.016		0.042		0.006		-	0.035	0.006		0.006	0.036	0.032	-	-	-			
Chrysene (aq) Benzo(b)fluoranthene (aq)	0.017 (MAC) (182)	1	0.001		0.001	0.004	0.001	0.001	0.016	1	0.063 0.024	 	0.044	l	1	0.050	0.010		0.013		0.059	 	1	1			\vdash
Benzo(k)fluoranthene (aq)	0.017 (MAC) (182) 0.017 (MAC) (182)	1	0.001		0.001	0.002	0.002	0.001	1		0.019	1	0.006		1	0.011	0.002		0.003	0.002	0.016	1	1	1			
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))		0.001		0.001	0.001	0.001	0.002	0.024		0.022		0.007			0.019	0.004		0.006	0.011	0.035						
Indeno(1,2,3-cd)pyrene (aq)			0.001		0.001	0.001	0.002	0.001	0.006		0.032		0.001			0.012	0.002		0.005	0.016	0.024						
Dibenzo(a,h)anthracene (aq)	•	_	0.002		0.002	0.002	0.002	0.002	0.014		0.033		0.004			0.002	0.002		0.002		0.002		_	_			
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		0.001		0.001	0.001	0.003	0.001	0.007		0.031		0.001			0.009	0.003		0.005	0.002	0.033						
INORGANICS Dissolved Organic Carbon	mg/l		34		220	32.7		41.3	48.9		37.2		40.9			34		17.7	22	45.2	31.5	15.3	7.4	13.1	12.1	12	
pH pH	6 - 9 (2&4)	1	7.4		6.8	6.8	7	41.3 6.8	48.9 6.7	1	7.3		40.9 6.7	l	1	6.7		6.9	6.6	45.2 6.7	31.5 6.6	7.2	7.4	7.5	7.2	7.5	
Alkalinity (Total)		1	1236		1286	1095	1262	1284	1084		1144		1200		1	884		593	738	1316	910	69	73	75	83	93	
Chloride	250 (5)		196		186	156	185	169	50		50		47			39		44	26	37	43	16	16	16	17	16	
Ammoniacal Nitrogen			68.94		62.2	61.73	66.81	65.76	72		58 0.01		86 0.01			52.29		25.64	28.91	71.64	50.01	1.2	0.81	0.7	1.02	1.39	
Nitrite		1	0.01	_	0.01	0.01	0.01	0.01	0.006		0.01		0.01		1	0.01		0.01	0.01	0.01	0.01	0.038	0.037	0.04	0.062	0.076	
Nitrate	50 (5) 250 (5)	1	0.125		0.125	0.125	0.125	0.125	0.03		0.15		0.125			0.125		0.125	0.125	0.125	0.125	0.08	0.25	0.15	0.38	0.4	
Sulphate	250 (5)	1		17.60	25.18	10.49	12.45	18.32	 	144.00		17.30	 	7.18	35.70	-	89.30		37.46	9.17	7.87	48.50	58.30	61.00	46.70	47.20	\vdash
Sulphide Calcium		1	-	254.00	285.00	231.00	286.00	292.00	-	361.00		314.00		311.00	235.00		189.00		223.00	277.00	246.00	33.30	40.80	43.30	39.00	42.30	
Potassium		1			72.31	62.49	70.01	72.90	t	6.80		27.20	l	311.00	24.50	1	189.00		20.41	33.84	26.03	9.70	40.80 10.50	43.30 11.60	39.00 11.00	42.30 10.80	
Magnesium				53.60	56.39	48.65	54.10	56.19	1	25.30		23.90		29.90	21.10		12.60		18.70	26.48	22.10	2.41	4.46	4.89	3.89	4.93	
Sodium	200(5)			161.00	172.00	142.14	177.00	172.00		50.40		49.50		72.30	48.80		30.80		41.58	52.26	47.47	13.60	13.90	15.00	14.60	14.70	
Biochemical Oxygen Demand			1.5		3.6	2.5	3.1	2.6	53.0		116.0		50.0			32.0		32.0	39.0	128.0	32.0	5.8	7.4	7.7	3.6	1.5	
Chemical Oxygen Demand		1	109		112	86	119	106	305		624		206		1	37		261	47	10	118	47	60	52			
Conductivity		1	2730 0.15		2840 0.15	2469 0.15	2822 0.15	2800 0.15	2330 0.03		2070 0.15	-	2450 0.15		1	1810 0.15		1360 0.15	1550 0.15	2200 0.15	1802 0.15	337 0.12	331 0.29	338 0.19	343 0.44	359 0.48	
Total Oxidisable Nitrogen Total Phosphorus		1	0.15		0.15	0.15	0.15	0.15	0.03	-	0.15	-	0.15		+	221		3.68	0.15 2.29	2.81	2.11	0.12	0.29	0.19	0.44	0.48	
rous ritospitorus	I .		V.143	l	V.44J	0.143	0.123	0.125	J.80		0.40		V./6	·		4.31		2.00	4.47	4.01		0.123	0.125	0.125	0.123	V.423	

The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern Instand) 2015 Feedwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern Instand) 2015 Feedwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern Instand) 2015 Transitional waters.
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MAC. - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC CQ). Where the MAC EQ are marked as "not applicable", "the AA EQS where are considered protective against short term pollution-peaks in continuous discharges since they are significantly lower than the values derived on the sound caused recordance."

Note: 4 College of the Media Security of the Media Security Security of the Media Security Se

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																						
HEAVY METALS			10/00/2017	34 /00/3047	22/00/2012	uz 20/11/2012	04/13/2017	12/01/2010	10/01/2010	47/04/2010	40 (04 (3040	27/05/2010	20/05/2010	10/00/2010	0/00/2010	03/10/2018 04/10/2011	30/11/2010	21/11/2010	10/12/2010 1 11/12/201	0 00/01/2010	11/01/2010	07/07/2010	11/03/3010	27/22/2010 20/22/2010
Arsenic (diss.filt)	μg/l 50 (AA) (1) 25 (AA (2)		1.81	1.70	1.00	0.60	0.57	0.47	10/01/2010	0.69	18/04/2018	1.25	28/00/2018 2	0.50	0.68	0.60	20/11/2018	0.39	0.33	0.35	14/01/2019	07/02/2019	0.31	0.35
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		0.025	0.025	0.025	0.025	0.025	0.025		0.025		0.025		0.025	0.025	0.025		0.025	0.025	0.025			0.025	0.025
Chromium (diss.filt)	50 (5)		0.354	0.258 2.520	0.324		0.343	0.398		0.125 3.220		0.125		0.250 1.220	0.125 2.220	0.125 1.410		0.250	0.250 2.510	0.125 1.940			0.250	0.250 3.055
Copper (diss.filt) Iron (diss.)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (182)	34.94	2.260 616	2.520 615	1.880 341		2.640 20	3.090		3.220 20		1.850 20		1.220	63	1.410		1.950	2.510	1.940			2.830 20	3.055
Mercury (diss.filt)	0.07 MAC (182)		0.0025	0.0025	0.002		0.0025	0.0025		0.0025		0.0025			0.0025	0.0025		0.0025	0.0025				0.0025	0.0025
Manganese (diss.filt)	123 (AA) (*********************************	276.92	360	362	73		13.5	12.5		12.5		12.5			2.49771102			12.5	12.5				12.5	12.5
Molybdenum (diss.filt) Nickel (diss.filt)	70 (8) ? 4 ^{344 (152)} (AA) (1), 8.6 (AA) (2), 34 (MAC) (182)	14.98		3.62	3.48	3.45	3.51			2.75		2.82		2.26		1.68		1.35					1.52	2.02
Lead (diss.filt)	1.2(MAC) (1), 8.6 (AA) (2), 34 (MAC) (182) 1.2(MAC) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	9,64	3.71 0.125	0.125	3.48 0.125		0.125	3.25 10		0.125		0.125			1.80 0.125	0.125		0.125	1.47 0.125	1.45 0.125			0.125	0.125
Antimony (diss.filt) Selenium (diss.filt)	5 (5)		0.113	0.113	0.223	0.115	0.115			0.115				0.123	0.12.3	0.123		0.113	0.123	0.113				
Selenium (diss.filt) Zinc (diss.filt)	10(5) 10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (************************************	10 37.15	0.31	0.31	0.34	0.30	0.32	0.31		0.26		0.41		0.21	0.10	0.10		0.10	0.24	0.10			0.10	0.24
Iron (Total)	10.9 (AA) (1) +ABC bloavallable 6.8 (AA) (2) +ABC	37.15	14.00	14.10	8.24 505	12.40	11.50	20.30	164.0702078	4.74	112	0.50		2.50	5.06	0.50		8.24	10.90	6.08			7.19	4.18
Manganese (Total)					94				26.9592088		23													
Chromium III (diss.filt)	4.7 (AA) (1) 95th1@ie (32)													0.25				0.25	0.25				0.25	0.25
Chromium VI (diss.filt) Aluminium (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)			50	50	_		50						0.025				0.025 50	0.025 50				0.025	0.025
Vanadium (diss.filt)			0.245	0.258	0.125	0.111	50 0.096	0.148		0.125		0.139		2.000	0.115	0.056		0.052	0.095	0.025			50 0.092	50 0.073
Phenois	ug/l																							
Phenols, Total Speciated TPH	7.7 (182) 46 (95th16ile) (182)				22.50				22.50		22.50		22.50			22.50								
Aliphatics EC C5-C6	· ·																							
	15000 (7)							1	10		10		10			10								
EC>C6-C8 EC>C8-C10	15000 (7) 300 (7)								12.5 7.5		12.5		12.5			12.5								
EC>C10-C12	300 (7)	_				_			7.5 5		7.5		7.5 5			/.5								
EC>C12-C16	300 (7)								5		5		5											
EC>C16-C21 FC>C1-C35									5		5		5											
EC-C35-C44						_			5		5		5											
Aromatics FC CS-C7																								
	10 (7)								1		1		1			1								
EC>C7-C8 EC>C8-C10	700 (7) 300 (7)								2.5 25		2.5 25		2.5 25			2.5								
EC>C10-C12	90 (7)	+							5		5		5			- 23								
EC>C12-C16	90 (7)								5		5		5											
EC-C16-C21 EC-C21-C35	90 (7)	-							5		5		5											
Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)				0.50				0.50		0.50		0.50			0.50								
Benzene Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)				0.50				0.50		0.50		0.50			0.50								
Ethylbenzene p/m-Xylene	300 (8)				0.50				0.50 1.00		1.00		0.50 1.00			0.50								
o-Xviene					1.00 0.50				0.50		0.50		0.50			1.00 0.50								
Sum of detected Xylenes	500 (8)										0.55													
Polyaromatic Hydrocabons	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)								0.003		0.003		0.003			0.003								
Naphthalene (aq) Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)					_			0.001		0.001		0.001			0.001								
Acenaphthene (aq)									0.001		0.001		0.003			0.001								
Fluorene (aq) Phenanthrene (aq)	<u>:</u>	_							0.001		0.003		0.004			0.001								
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)								0.001		0.001		0.001			0.001								
Fluoranthene (an)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)								0.001		0.020		0.001			0.001								
Pyrene (aq) Benzo(a)anthracene (aq)	 	+	+			_		1	0.001		0.019		0.001			0.001	+		 	+				
Chrysene (aq)	-	+	f -			_		1	0.001		0.013		0.001			0.001	1			1 1				
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)								0.001		0.019		0.001			0.001								
Benzo(k)fluoranthene (aq) Benzo(a)pyrene (aq)	0.017 (MAC) (182) 0.017 (MAC) (182) 0.00017 (AA) (1 8 2) MAC (0.27 (1) 0.027 (2))	+	+			_		1	0.001		0.019		0.001			0.001			 	+				
Indeno(1,2,3-cd)pyrene (aq)	- (a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	+	f -			_		1	0.001		0.001		0.001			0.001	1			1 1			-+	
Dibenzo(a,h)anthracene (aq)									0.002		0.002		0.002			0.002								
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2) mg/l		_						0.002		0.007		0.002			0.010	_							
Dissolved Organic Carbon			11.5	11.3	8.1	6.5	6.7		5.5		5.9		7.5	8.8	6.7	6.4			4.5		5	4.1		5.6
Hq	6 - 9 (2&4)		7.3	7.3	7.7	7.9	7.7		7.7		8.5		8.9	7.9	7.6	8.1	7.7		7.7		7.5	8		8.2
Alkalinity (Total) Chloride	250 (5)	+	98	100	93	111 19	106 18	1	127		104		77	97 9.52	78 7.56	83 8.06	69 7.3		67		71	71 5.9		89
Ammoniacal Nitrogen	230 (3)	+	1/	1.99	0.26	0.92	0.51	1	20 1.2		18 0.02		0.02	0.02	0.02	0.02	0.05		0.22	1 1	9.89	0.17	-+	18 0.02
Nitrite				0.097		0.052			1.2 0.034		0.018				0.0025	0.0025	0.013		0.019		0.007	0.017		0.018
Nitrate	50 (5) 250 (5)		40.70	0.47	2.21 37.90	2.83		40.30	4.73	51 90	2.62	29.30			0.08	0.03	0.37	23.60	0.85	28 10	0.03	1.38	27.70	1.5
Sulphate Sulphide	250 (5)		48.20	43.00	37.90	42.60	41.90	48.30		21.90		29.50	-	19.10 0.005	18.81	19.80	+	0.005	0.005	28.10			0.005	46.14 0.005
Calcium			42.90	41.30		47.30		58.60		51.10		27.30		33.80	29.65	32.90		30.30	30.30				32.74	45.09
Potassium			11.30	11.20 4.72	13.00 5.24	12.90	12.80	11.80	1	10.40		7.77		8.29 3.96	6.64 2.71	6.97	1 -	6.74 2.64	6.77				7.13	8.01
Magnesium Sodium	200(5)	+	5.19 15.40	4.72 15.10	5.24 18.30		5.86 18.50	6.92 19.30	1	6.23 17.60		4.97 16.80		3.96 14.70	9.88	2.82 10.50	+	2.64 8.94	3.02 10.80	3.27 10.80			3.56 12.05	5.13 15.70
Biochemical Oxygen Demand				1.5	1.5	2.5	2.4		2.7		1.5		3.0	6.8	1.5	7.0	2.5		5.5		17.0	3.3		12.0
Chemical Oxygen Demand				29	20	20	21		10		10		24	34	24	28	10		10		79	10		34
Conductivity Total Oxidisable Nitrogen		+	366	365 0.57	360 2.3	407 2.88	390 2.95	1	465 4.76		399 2.64		259 0.03	269 0.03	0.08	240 0.03	222 0.38		241 0.87	+	952 0.03	257 1.4		345 1.52
Total Oxidisable Nitrogen Total Phosphorus		+	f -	0.125		0.125		1	0.125		0.125		0.125			0.125	0.125		0.125	1 1	0.25		-+	0.125

The Water Framework Directive (Priority Substances and Cassification) Regulations(Northern Ireland) 2015 Freehwater.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of acutestoric.

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Sample Point / Determinands	TSV	MBAT PNEC				Lagoon																	
HEAVY METALS	µg/l		11/04/2019	29/04/2019 21/05/2019	22/05/2019	19/06/2019	20/06/2019	04/07/2019 05/07/201	07/08/2019	08/08/2019	10/09/2019 11/09/2019	15/10/2019	06/11/2019 06/0	1/2020 07/01/2020	22/01/2020	26/02/2020	18/03/2020	10/08/2020	07/09/2020	13/10/2020	10/11/2020	01/12/2020	11/01/2021
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		0.44		0.47		0.49	0.60		0.57	0.43			1.25	0.25		0.28	0.49		0.60	0.26	0.28	
Cadmium (diss.filt) Chromium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l	_	0.025		0.025		0.025	0.025 0.250		0.025 0.250	0.025 0.250	0.025	0.025 C	025 250	0.025	0.025 0.125	0.025	0.025	0.025	0.025	0.025	0.025	0.025 0.125
Copper (diss.filt)	50 (5) 1 (AA) bioavailable ^(see Note 1) (1) ^(see Note 4) (2)	34.94	3 130		2 236		1.810	1.400		0.250	0.250	2.230		806	1 590	2.020	1 910	1 230	0.123	0.125	0.125	0.125 1.751	0.125
Iron (diss.)	1 (AA) bloavallable (1) (2) 1000 (AA) (182)	34.54	20		77		47	68		66	89	66		20	20	20	20	97	94	62	20		20
Mercury (diss.filt)	0.07 MAC (182)		0.0025		0.0025		0.0025	0.0025		0.0025	0.0025	0.0025		0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025		0.0025
Manganese (diss.filt)	123 (AA) (*** note*1)	276.92	12.5		37.93472149		28	48		61.24225962	48.22478916	77	69.29220755	2.5	12.5	12.5	45	58	50.94516445	12.5	12.5	12.5	12.5
Molybdenum (diss.filt)	70 (8) ?																						
Nickel (diss.fit) Lead (diss.fit)	4*************************************	14.98 9.64	2.32		2.23 0.125		1.83 0.125	1.71		1.17	1.07 0.125	1.21		1.28 1.25	1.13 0.125	1.32 0.125	1.94 0.025	0.99	0.99	1.06 0.025	0.025	1.50 0.155685323	0.81
Antimony (diss.filt)	5 (5)	5.04	0.125		0.125		0.125	0.125	_	0.125	0.125	0.125	0.125	.125	0.125	0.125	0.025	0.025	0.025	0.025	0.025	0.155685323	0.025
Selenium (diss.filt)	10(5)	10	0.40		0.27		0.10	0.22		0.61	0.10	0.10	0.10	0.10	0.10	0.10	0.21	0.10	0.10	0.10	0.10	0.10	0.10
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (MA) (2)	37.15	7.73		3.62		3.78	4.81		2.95	3.91	4.40	9.19	1.40	9.67	16.30	16.00	1.89	2.48	0.25	3.75	9.71	7.70
Iron (Total)																							
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)		0.25		0.25		0.25	0.25		0.25	0.25	0.25	0.25	125				0.13	0.13	0.08	0.13	0.13	0.13
Chromium VI (diss.fit)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.025		0.025		0.025	0.025		0.025	0.025	0.025		.025	-			0.025	0.025	0.025	0.025		0.125
Aluminium (diss.filt)	31. (1.1) (1) 31. (1.1) (2) 32 (31.1) (31.1)		50		50		50	50		50	50	50	50	50	50	50	50	50	50	50	50	50	50
Vanadium (diss.filt)			0.052		0.025		0.025			0.075	0.025	0.025	0.025	.025	0.056	0.099	0.077	0.053	0.025	0.025	0.025	0.074	0.025
Phenois	Ug/I																						
Phenois, Total Speciated TPH	7.7 (182) 46 (95th%ile) (182)																						
Speciated TPH Aliphatics	· ·		_																				
EC CS-C6	15000 (7)	_			+										1								$\overline{}$
EC>C6-C8	15000 (7)																						
EC>C8-C10 EC>C10-C12	300 (7) 300 (7)																						
EC>C10-C12 EC>C12-C16	300 (7)																						
FC>C16-C21	300 (7)				-										-								$\overline{}$
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EC>C21-C35 EC>C35-C44																							
Aromatics EC CS-C7																							
EC CS-C7 EC>C7-C8	10 (7) 700 (7)																						
EC>C8-C10	300 (7)				-										-								$\overline{}$
EC>C10-C12	90 (7)																						
EC>C12-C16	90 (7)																						
EC>C16-C21	90 (7)																						
EC>C21-C35	90 (7) 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)																						
Benzene Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)																						$\overline{}$
Ethylpenzene	300 (8)																						$\overline{}$
p/m-Xylene																							
o-Xylene	500 (8)																						
Sum of detected Xylenes Polyaromatic Hydrocabons																							
Naphthalene (ag)	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)																						_
Acenaphthylene (aq)	- () ()																						
Acenaphthene (aq)																							
Fluorene (aq)	•																						
Phenanthrene (aq) Anthracene (aq)	0.1 (AA & MAC) (1 & 2)																						
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)																						
Pyrene (aq)																							
Benzo(a)anthracene (aq)	•																						
Chrysene (aq)	0.017 (MAC) (18-2)	-	+		+	-	-	 		—		-	\vdash		+	-	-	-	1	1			
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2)	+	+	 	+	1	l		+				 		1	1	-	1	t	 	 	-+	
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	1	1			1										1		1					-
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)																							_
Dibenzo(a,h)anthracene (aq)	-																						
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2)																						
Dissolved Organic Carbon	mg/l			7 8.3		8.3		8.1	4.9		6.3	6.7	5.2	-	4.4	4.2	4.6	5.8	7.5	5.7	-	4.2	5.4
pH	6 - 9 (2&4)	1	1	7.7 7.8		7.8		7.5	7.2		7.2	7.2	7.5	7.7	7.8	7.7	7.6	7.5	7.5	7.3	7.3	7.2	7.5
Akalinity (Total)				99 103		92		92	73		73	84	81	86	79	85	102	73	76	82	80	85	58
Chloride	250 (5)		1	19 17	1	11		11	7.3		6.6	7.9	7.7	13	13	18	19	6.7	5.6	6.4	11	14	7.5
Ammoniacal Nitrogen			1	0.02 0.02 0.013 0.007	-	0.02		0.02	0.02		0.02	0.02	0.02	0.02	0.02	0.64	0.18	0.02	0.02 0.0025	0.02	0.02	0.09	0.02
Nitrite Nitrate	50/5)		+	0.013 0.007 1.44 0.14	+	0.0025	 	0.0025	0.0025	-	0.0025	0.0025	0.007	0.008	0.008	0.023 1.13	0.017 2.1	0.0025	0.0025	0.0025	0.01	0.041	0.0025
Sulphate	50 (5) 250 (5)	-	50.40	1.44 0.14	38.70	0.03	26.40	22.30	0.03	14.02	13.33	11.90		4.48	18.00	29.14	36.63	10.70	10.84	11.70	12.55		11.96
Sulphide					0.005	i e	0.005	11.30		0.005	0.005			1.03									
Calcium			52.90		43.66		37.90	38.80		28.32	30.08	32.30	30.81	7.15	32.39	40.50	49.90	29.13	30.00	30.10	30.55	34.60	25.70
Potassium			9.25		6.63		4.88	5.07		4.99	4.92	5.44	6.34	i.65	8.13	7.10	7.76	5.11	4.10	4.21	5.17	6.10	4.01 2.63
Magnesium	200(5)	-	6.34 19.20		5.40 16.68	-	4.01 12.90	3.90 12.70		2.35 8.67	2.46 8.14	2.79 8.80	2.68 8.98	1.87	3.42 11.65	4.53 13.90	5.58 15.90	2.29 7.70	2.27 6.41	2.33 6.92	2.66 8.07	3.21 8.71	2.63 7.15
Sodium Biochemical Oxygen Demand	200[3]	+	19.20	6.0 5.2	10.00	43	12.90	3.5	3.3	8.07	15	8.80	8.98	15	2.7	3.4	15.90	1.0	3.2	1.0	2.5	1.0	7.10
Document Oxygen Demand		_		30 29	+	29		25	23		10	10	10	10	10	10	10	21	20	10	10	11	2.5 5
											200				249	307	359						
Chemical Oxygen Demand Conductivity				368 340		279		270	204			219	219	261				203	193	205	215	241	178
Conductivity Total Oxidisable Nitrogen				1.45 0.15		0.03		0.03	0.03		0.03	0.03	0.14	0.51	0.7	1.15	2.12	0.03	0.03	0.03	0.08	0.53	0.25
Conductivity				368 340 1.45 0.15 0.125 0.125		0.03 0.125		0.03 0.125	0.03 0.125		0.03 0.125	0.03	0.14 0.125	261 0.51 0.125	0.7		2.12	0.03 0.125	193 0.03 0.125	0.03	0.08	0.53 0.125	0.25

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MAC. This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS valuesare considered protective against short term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of acute

Note: CODO consiste derived via the Metall Bicavariability Assessment Tool (M-BAT) developed by WTDTAC Look at receptor specific assessment using the M-BAT (Seveloped by WTDTAC Look at receptor specific assessment using the M-BAT (Seveloped by WTDTAC Look at receptor specific assessment using the M-BAT (Seveloped by WTDTAC Look at receptor specific assessment using the M-BAT tool winds). Look at receptor specific assessment using the M-BAT tool winds; DLC and Look of the SEAT (Sevenoval Tool (M-BAT) developed by WTDTAC Look at receptor specific assessment using the M-BAT tool winds; DLC and Look of the SEAT (Sevenoval Tool (M-BAT) developed by WTDTAC Look at receptor specific assessment using the M-BAT tool winds; DLC and Look of the SEAT (Sevenoval Tool (M-BAT) developed by WTDTAC Look at receptor specific assessment using the M-BAT tool winds; DLC and Look of the SEAT (Sevenoval Tool (M-BAT)) developed by WTDTAC Look at receptor specific assessment using the M-BAT tool winds; DLC and Look of the SEAT (Sevenoval Tool (M-BAT)) developed by WTDTAC Look at receptor specific assessment using the M-BAT tool winds; DLC can developed by WTDTAC Look at receptor specific assessment using the M-BAT tool winds; DLC can developed by WTDTAC Look at receptor specific assessment using the M-BAT tool winds; DLC can developed by WTDTAC Look at receptor specific assessment using the M-BAT tool winds; DLC can developed by WTDTAC Look at receptor specific assessment using the M-BAT tool winds; DLC can developed by WTDTAC Look at receptor specific assessment using the M-BAT tool winds; DLC can developed by WTDTAC Look at receptor specific assessment using the M-BAT tool winds; DLC can developed by WTDTAC Look at receptor specific assessment using the M-BAT tool winds; DLC can developed by WTDTAC Look at receptor specific assessment using the M-BAT tool winds; DLC can developed by WTDTAC Look at receptor specific assessment using the M-BAT tool winds; DLC can developed by WTDTAC Look at receptor specific assessment using the M-BAT

Sample Point /		MBAT PNEC																								
Determinands	TSV	(ug/l)																								
HEAVY METALS	µg/l		03/02/2021	09/03/2021	20/04/2021 21/04/202	11/05/2021	23/06/2021	21/07/2021	05/08/2021	23/09/2021	20/10/2021	24/11/2021	08/12/2021	24/01/2022	22/02/2022	29/03/2022	09/01/2017	11/01/2017	06/03/2017	29/08/2017	30/08/2017	31/08/2017	05/09/2017	07/09/2017	12/09/2017	14/09/2017
Arsenic (diss.filt) Cadmium (diss.filt)	50 (AA) (1) 25 (AA (2) 0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		0.19	0.27	0.32	0.36	0.48	0.44	0.49	0.51	0.33	0.28	0.26	0.29	0.37	0.42	12.50		12.50	1.63		2.63 0.025	1.48 0.025	2.87 0.025	1.33 0.025	0.91
Chromium (diss.filt)	50 (5)		0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	12.500		12.500	0.125		0.917	0.125	0.125	0.125	0.125
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94	1.277	0.994	0.884	0.816	1.140	0.779	1.198	0.250	1.680	0.599	1.811	1.410	1.900	1.774	10.000		10.000	8.130		5.120	5.040	1.670	0.500	0.500
Iron (diss.) Mercury (diss.filt)	1000 (AA) (1&2) 0.07 MAC (1&2)		20 0.0025	20 0.0025	20 0.0025	47 0.0255	53 0.0025	20 0.0025	69 0.0025	137 0.0025	20 0.0025	0.0025	20 0.0025	20 0.0025	0.0025	0.0025	50 0.0025		50 0.0025	745 0.0025		784 0.0025	388 0.0025	1570 0.0025	982 0.0025	500 0.0025
Manganese (diss.filt)	123 (AA) (MAD 1000 T)	276.92	12.5	12.5	12.5			80.94683023			29.66740287		12.5	12.5	12.5	12.5	5		5	256		820	305	1520	1060	673
Molybdenum (diss.filt) Nickel (diss.filt)	70 (8) ? 4 ^(MBC 1006 2) (AA) (1), 8.6 (AA) (2), 34 (MAC) (182)	14 98	1.06	1.26	107	1.18	115	1.04	1 39	0.74	0.90	0.71	1.08	0.97	1.27	1.12	12.50		12.50	2.74		3.47	2.47	5.37	6.72	7.18
Lead (diss.filt)	1.2(MM FORM 3) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	12.5		12.5	0.848		0.763	0.415	0.394	0.125	0.125
Antimony (diss.filt) Selenium (diss.filt)	5 (5) 10(5)	10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10				0.10		0.10	0.10	0.10	0.10	0.10
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (10.00 A)	37.15	13.71	6.74	4.04	5.21	6.64	4.90	18.22	1.96	6.17	5.02	6.98	8.65	4.82	4.40	10.00		10.00	6.80		6.22	3.18	1.80	2.43	1.77
Iron (Total)																		1540	608							
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)	_	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13		24	14			-		+		-
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.080	0.135	0.051				0.025		0.025	0.025	0.025	0.025	0.025
Aluminium (diss.filt) Vanadium (diss.filt)	+		50 0.057	50 0.025	50 0.025	50 0.054	50 0.108	50 0.067	50 0.082	0.091	50 0.087	50 0.054	50 0.067	50 0.058	50 0.103	50 0.070	50		50	385 0.986		271 1.090	178 0.741	50 0.497	0.090	50 0.058
Phenols	ug/l				0.025																	2110				
Phenois, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2)																				22.50					
Alinhatics	,																									
EC CS-C6 EC>C6-C8	15000 (7) 15000 (7)					+ =	+	1									25 30		25 30	10 12.5		10	10	10 12.5	10 12.5	10 12.5
EC>C8-C10	300 (7)			1		1	1	1								1	0.05		0.05	7.5		7.5	7.5	7.5	7.5	7.5
EC>C10-C12 EC>C12-C16	300 (7) 300 (7)																3.5		,	5		5	5	5	5	5
EC>C16-C21	300 (7)						1										2.5		2.5	5		5	5	5	5	5
EC>C21-C35 EC>C35-C44																	10		10	5		5	5	5	5	5
		_		-		+	+										2.5		2.5	5		5	5	5	5	5
Aromatics EC CS-C7	10 (7)																0.025		0.025	1		1	1	1	1	1
EC>C7-C8 EC>C8-C10	700 (7) 300 (7)																0.025 0.025		0.025	2.5 25		2.5 25	2.5	2.5	2.5 25	2.5 25
FC>C10-C12	90 (7)																3.5			5		5	5	5	5	5
EC>C12-C16 EC>C16-C21	90 (7) 90 (7)						-										3 15		3	5		5	5	5	5	5
EC>C21-C35	90 (7)																15		15	5		5	5	5	5	5
Berizene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)																			0.50	0.50	0.50	0.50	0.50	0.50	0.50
Ethylbenzene	300 (8)						1													0.50	0.50	0.50	0.50	0.50	0.50	0.50
p/m-Xylene																				1.00 0.50	1.00 0.50	1.00 0.50	1.00	1.00 0.50	1.00 0.50	1.00 0.50
o-Xylene Sum of detected Xylenes	500 (8)					-	+													0.30	0.30	0.30	0.50	0.50	0.50	0.30
Polyaromatic Hydrocabons	μg/Ι																			0.003		0.003		0.003		
Naphthalene (aq) Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)	_		-		+	+													0.003		0.003	0.003	0.003	0.003	0.003
Acenaphthene (aq)																				0.001		0.001	0.001	0.001	0.001	0.001
Fluorene (aq) Phenanthrene (aq)							-													0.001		0.001	0.001	0.001	0.001	0.001
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)																			0.001		0.001	0.001	0.001	0.001	0.001
Fluoranthene (aq) Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)	_		-		+	+													0.001		0.001	0.001	0.001	0.001	0.001
Benzo(a)anthracene (aq)	-																			0.001		0.001	0.001	0.001	0.001	0.001
Chrysene (aq) Benzo(b)fluoranthene (aq)	0.017 (MAC) (182)					_	-	+	-					-		-			-	0.001		0.001	0.001	0.001	0.001 0.001	0.001
Benzo(k)fluoranthene (aq)	0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.0017 (MAC) (18.2) 0.00017 (AA) (18.2) MAC (0.27 (1) 0.027 (2))																			0.001		0.001	0.001	0.001	0.001	0.001
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))				 	+	 	 												0.001	_	0.001	0.001	0.001	0.001	0.001
Dibenzo(a,h)anthracene (aq)																				0.002		0.002	0.002	0.003	0.002	0.002
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2) mg/l																			0.002		0.002	0.002	0.002	0.002	0.002
Dissolved Organic Carbon			6.9	6	9.2	7.7	10.2			13.1	8.3	6	5	6.1	4.4					18.8		17.5		17.5	6.9	6
pH	6 - 9 (2&4)		7.7	7.7	7.9	7.8	7.2	7.3	7.2	7.2	7.2	7.2	7.3	7.5	7.8	7.7				6.6		7.1		6.9	6.6	6.9
Alkalinity (Total) Chloride	250 (5)		78 8.1	105 10	101 9.8	9.5	102 8.1	84 26	74	105 8.2	79 4.3	70 6.1	62 12	89 14	92 19	102 19			-	19 6.5		24 8		38 8.3	31 8.7	40 7.8
Ammoniacal Nitrogen			0.05	0.02 0.0025	0.02	0.02	0.05 0.0025	0.04	0.02	0.02 0.0025	0.02 0.0025	0.02 0.0025	0.04 0.0025	0.02	0.24 0.014	0.02				0.08		0.02		0.02	0.02	0.02
Nitrite Nitrate	50 (5)		0.007	0.0025	0.0025	0.0025	0.0025	0.0025	0.005	0.0025	0.0025	0.0025	0.0025	0.006	0.014	0.0025				0.013		0.007	-	0.005	0.0025	0.0025
Sulphate	50 (5) 250 (5)		19.18	23.98	15.73	18.41	15.81	14.39	13.49	7.41	11.04	9.78	10.74	25.10	30.19	33.49			32.30	5.57		3.00	6.60	12.20	19.80	21.70
Sulphide Calcium			34.66	43.24	31.99	40.80	42.10	34.10	24.38	37.69	33.06	30.05	22.17	40.96	44.71	49.11	15.50		16.20	7.01		6.78	8.11	12.30	16.30	20.40
Potassium			5.17	6.37	4.70	5.09	3.63	2.62	3.36	5.26	4.69	4.35	3.42	6.67	6.35	7.20				8.25		9.21	7.71	8.55	4.00	3.27
Magnesium Sodium	200(5)		3.47 8.45	4.19 10.21	2.96 7.98	3.83 9.91	3.54 10.93	2.41 9.74	1.61 6.38	2.29 8.59	1.99 7.01	1.82 6.33	2.03 7.08	3.43 11.14	4.01 13.29	4.66 14.38	2.36 7.32		3.93 7.15	1.66 4.55		0.13 4.40	1.64 4.57	2.52 5.05	2.18 4.90	3.41 5.14
Biochemical Oxygen Demand	Loopy		7.1	4.5	2.5	2.9	4.5	6.9	2.5	35.0	2.8	7.8	1.5	4.3	1.5	1.5	7-54		7.43	3.1		4.9	4.37	18.0	6.0	3.2
Chemical Oxygen Demand			20 231	36	21 278	23 277	45 263	42	29 221	224 245	27 198	29 188	14 199	22	21	25		_		64		64		76	31	
Conductivity Total Oxidisable Nitrogen			0.74	290 0.03	0.03	0.03	0.03	223 0.03	0.03	0.03	0.03	0.07	0.15	283 0.23	315 0.8	352 0.84				0.03		105 0.03		127 0.03	155 0.03	166 0.03
Total Phosphorus			0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125				0.2		0.31		0.35	0.125	0.125

The Water Framework Directive (Priority Substances and Cassification) Regulations(Northern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations(Northern Ireland) 2015 Transitional waters.
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MAC - This parameter is the Environmental Quality Standard oppressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution-peaks in continuous discharges since they are significantly lower than the values derived on the basis of autratectory.

Note: EQBiopositable derived via the Metal Biosvaliability Assessment Tool (M-BAT) developed by WDTAG. Look at receptor specific assessment using the M-BAT (Seveloped by WDTAG. Look at receptor specific assessment using the M-BAT (Seveloped by WDTAG. Look at receptor specific assessment using the M-BAT (Seveloped by WDTAG. Look at receptor specific assessment using the M-BAT (Seveloped by WDTAG. Look at receptor specific assessment using the M-BAT (Seveloped by WDTAG. Look at receptor specific assessment using the M-BAT (solid whigh Could call to developed by MDTAG. Look at receptor specific assessment using the M-BAT (solid whigh Could call to developed by MDTAG. Look at receptor specific assessment using the M-BAT (solid whigh Could call to developed by MDTAG. Look at receptor specific assessment using the M-BAT (solid whigh Could call to developed by MDTAG. Look at receptor specific assessment using the M-BAT (solid whigh Could call to developed by MDTAG. Look at receptor specific assessment using the M-BAT (solid whigh Could call to developed by MDTAG. Look at receptor specific assessment using the M-BAT (solid whigh Could call to developed by MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at r

Sample Point /		MBAT PNEC																							
Determinands	TSV	(ug/l)																	Pond 3a						
HEAVY METALS Arsenic (diss.filt)	μη/I 50 (AA) (1) 25 (AA (2)	15)	/09/2017 18	/09/2017 1.56	21/09/2017 1.87	22/09/2017	25/10/2017	09/01/2019 0.49	15/01/2019	11/04/2019 0.45	29/04/2019	21/05/2019	22/05/2019 0.53	19/06/2019	20/06/2019 04/07/20	19 05/07/2019 0.98	07/08/2019	08/08/2019 0.92	10/09/2019 11/	09/2019 15 0.65	10/2019 06/11/2019 0.51 0.49	06/01/2020 0.38	07/01/2020	22/01/2020 0.36	26/02/2020 0.25
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₂ > 200 mg/l			0.025	0.025			0.025		0.025			0.025		0.025	0.025		0.025		0.025	0.025 0.025	0.025	$\pm -$	0.025	0.025
Chromium (diss.fit)	50 (5)			0.125	0.125			1.064		0.250 1.600			0.250 1.159		0.250 1.080	0.250 1.020	-	0.250 1.100		0.250 0.694	0.250 0.250 0.500 3.108	0.250	1	0.125	0.125 0.846
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (ΔΔ) (182)	34.94		0.500	0.500			1.064		1.600		1	1.159	-	1.080	1.020	-	1.100		52	0.500 3.108 20 860	1.000	+	0.624	0.846
Iron (diss.) Mercury (diss.filt)	0.07 MAC (1&2)			0.0025	0.0025			0.0025		0.0025			0.0025		0.0025	0.0025		0.0025		.0025	0.0105 0.0025	0.0025		0.0025	0.0025
Manganese (diss.filt) Molybdenum (diss.filt)	123 (AA) (80 700°T) 70 (8) 2	276.92		1830	4220			12.5		12.5		-	48.17146693		38	27		34.69868275		12.5	12.5 74.20279769	12.5	+	12.5	12.5
Nickel (diss.filt)	(AA) (1) 86 (AA) (2) 24 (MAC) (182)	14.98		4.40	7.69			1.26		1.01			1.03		1.21	1.23		0.90			0.90 1.59	0.99	+	0.90	0.76
Lead (diss.filt)	1.2 ^(MR TOW 5) (AA) (1), 1.3 (AA) (2), 14 (MAC) (1&2)	9.64		0.125	0.125			0.125		0.125			0.125		0.125	0.125		0.125		0.125	0.125 0.125	0.125	\perp	0.125	0.125
Antimony (diss.filt) Selenium (diss.filt)	10/5)	10		0.10	0.10			0.43		0.57		-	0.47		0.51	0.51		0.23		0.51	0.50 0.37	0.44	+	0.48	0.32
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC	37.15		1.20	2.56			0.50		0.50			0.50		0.50	0.50		0.50		0.50	0.50 2.87	0.25		0.50	0.50
Iron (Total) Manganese (Total)							1620 305					+		-		_	-					+	+	-	
Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)									0.25			0.25		0.25	0.25		0.25			0.25 0.25				
Chromium VI (diss.filt) Aluminium (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)			0.025	0.025 50					0.025 50		-	0.025 50		0.025	0.025 50	-	0.025			0.025 0.025 50 50	0.025 50		50	SO.
Vanadium (diss.filt)				0.060	0.055			0.025		0.025		1	0.025		50 0.025	30	+	50 0.025		0.025	0.025 0.194	0.025	1	0.025	0.025
Phenols	ug/l																								
Phenols, Total Speciated TPH	7.7 (1&2) 46 (95th*Gle) (1&2)		22.50			22.50																	_		
Alinhatics	15000 (7)																								
EC CS-O6 EC>C6-O8	15000 (7) 15000 (7)			10	10 12.5							-				_						-	+		-
EC>C8-C10	300 (7)			7.5	7.5							1					+					1	1	 	
EC>C10-C12 EC>C12-C16	300 (7)			5	5																		\perp		-
EC>C16-C21	300 (7)			24	5							-				_						-	+		
EC>C21-C35 EC>C35-C44				5	5																				
				5	5											_	_						+		
Aromatics EC CS-C7	10 (7)			1	1																		+	-	
EC>C7-C8 EC>C8-C10	700 (7) 300 (7)			2.5	2.5																		\perp		-
FC>C10-C12	90 (7)			25 5	25 5							-				_						-	+		
EC>C12-C16	90 (7)			5	5																				
EC>C16-C21 EC>C21-C35	90 (7)			5	5											_	_						+		
Benzene Toluene	10 (AA) MAC 50 (1) 8 (AA) MAC 50 (2)			0.50	0.50	0.50																			
Toluene Ethylbenzene	74 (AA) 95th%lie (380) (1), 74 (AA) 95th%lie (370) (2) 300 (8)			0.50	0.50	6.30 0.50						-					-					-		-	
p/m-Xylene	300 (0)		1.00	1.00	1.00	1.00 0.50						1					+					1	1	 	
o-Xylene	500 (8)		0.50	0.50	0.50	0.50																			
Sum of detected Xylenes Polyaromatic Hydrocabons	500 (8) Ug/I																								
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)			0.003																			1		
Acenaphthylene (aq) Acenaphthene (aq)	:			0.001	0.001											_	_						+		-
Fluorene (aq)				0.001	0.001																				
Phenanthrene (aq) Anthracene (aq)	0.1 (AA & MAC) (1 & 2)			0.002	0.002																				
Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)			0.001	0.001							1										1	+		
Pyrene (aq)	•			0.001	0.001																				-
Benzo(a)anthracene (aq) Chrysene (aq)	+			0.001	0.001	-						 	 	1	-	-	+	1	 			 	+		
Benzo(b)fluoranthene (aq)	0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.00017 (AA) (18.2) MAC (0.27 (1) 0.027 (2))			0.001	0.001																		1		.
Benzo(k)fluoranthene (ag)	0.017 (MAC) (1&2) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))			0.001	0.001							+	1			_	-	1				+	+		-
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)				0.001	0.001																		1		
Dibenzo(a,h)anthracene (aq) Benzo(q,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)			0.002	0.002			-				_	_					_	1 1			_	4	اتسه	
INORGANICS	mg/l				0.002																				
Dissolved Organic Carbon	6.4740			8.4					5.3		8.6	7.3		6.2	6.3		4.2		7		6 9.2 8 7.5		4.9 7.9	4.9	3.8 7.7
pH Alkalinity (Total)	6 - 9 (2&4)			6.8 51		-			7.9 98		8.3 98	8.8 91	 	8.5 78	9.1 59		8.5 80	1	8 94		8 7.5 100 61	 	7.9	103	7.7 65
Chloride	250 (5)			8.4					23		28	27		27	27		26		25		26 17		26	26	22
Ammoniacal Nitrogen Nitrite									0.06		0.02	0.02		0.02	0.02 0.0025	_	0.02	-	0.02		0.02 0.07 0.0025 0.007	 	0.17	0.09	0.02 0.011
Nitrate	50 (5) 250 (5)								0.013		1.48	0.95		0.18	0.03		0.03		0.03		0.54 1.05		1.74	1.76	1.23
Sulphate	250 (5)			19.20	38.40			11.50		16.10		1	15.82		14.00	12.10	_	9.87			9.14 9.33	8.78	+	11.10	10.31
Sulphide Calcium	+			22.60	36.90	-		35.90		38.40		 	33.70	1	0.005 26.80	19.30	+	26.33			0.005 36.20 25.39	0.01 31.63	+	38.75	28.10
Potassium				4.58	4.43			6.63		7.55			7.22		5.95	6.12		5.99		6.17	6.74 2.30	6.21	1	7.75	5.10
Magnesium Sodium	200(5)			3.65 5.12	3.29 4.60			6.07 15.70		6.54 17.10		+	6.53 16.95		6.50 17.50	6.59 18.10	-	6.26 16.76			6.60 4.49 16.90 11.50	5.61 14.10	+	6.91 17.44	4.96 14.90
Biochemical Oxygen Demand	200(3)				00			22.70	1.5	220	4.9	5.5	-2233	2.7	1.0	10.10	2.1	20.70	1.5		1.5 1.5	54.20	1.5	3.1	1.0
Chemical Oxygen Demand				100					10		24	26	\vdash	10	10		17	\vdash	10		10 24	1	10	10	10
Conductivity Total Oxidisable Nitrogen				190					311 0.9		330 1.5	314 0.96	1	276 0.19	240 0.03	_	267 0.03	1	290 0.03		306 207 0.54 1.06	+	336 1.76	329 1.78	244 1.24
Total Phosphorus									0.125		0.125	0.125		0.125	0.125		0.125		0.125		0.125 0.125		0.125	0.125	0.125

The Water Framework Directive (Priority Substances and Casofication) Regulations(Riomthern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Casofication) Regulations(Riomthern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Casofication) Regulations(Riomthern Ireland) 2015 Transitional waters.
 The Commodwater Directive (Priority Substances and Casofication) Regulations(Riomthern Ireland) 2015 Transitional waters (Priority Substances) Regulational Water Framework Directive)
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MAC. This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS), Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution-peaks in continuous discharges since they are significantly lower than the values defined on the basic of accretional the basic of accretional transfer.

Note: Collocuration devined via the Metal Biovariability Association Tool (M-BAT) developed by WIDTAG. Look at receptor specific association to a trial PRE-Clinicative M-Intro/level will fail. An epitrocorect/invers falses white M-Intro-level M-Intro-lev

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																									
HEAVY METALS	ا/ور		18/03/2020	10/08/2020	07/09/2020	13/10/2020	10/11/2020	01/12/2020	11/01/2021	03/02/2021	09/03/2021	20/04/2021	21/04/2021	11/05/2021	23/06/2021	21/07/2021	23/09/2021	20/10/2021	24/11/2021	08/12/2021	24/01/2022	22/02/2022	22/03/2022	09/01/2017	06/03/2017	05/09/2017	21/09/2017
Arsenic (diss.filt) Cadmium (diss.filt)	50 (AA) (1) 25 (AA (2) 0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		0.30	0.76	0.73	0.30	0.54	0.43	0.34	0.30	0.34		0.40	0.41	0.70	0.75	1.12	0.88	0.57	0.50	0.41	0.37	0.38				-
Chromium (diss.filt)	50 (5)		0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125		0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125				
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (18.2)	34.94	0.707	0.507	0.250	0.737	0.835	0.250	0.652	0.875	0.657		0.778	0.821	0.782	0.692	0.250	0.608	0.250	0.525	0.624	0.771	0.770				
Mercury (diss.fit)	0.07 MAC (182) 123 (AA) (*********************************		0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025		0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025				
Manganese (diss.filt) Molybdenum (diss.filt)	70 (8) 2	276.92	28	36	49.17263606		153.2489226	12.5	12.5	12.5	27.19203391		12.5	12.5	149.5140349	25.9865455	68.19314082	176.2994667	40.16359406	12.5	12.5	12.5	12.5				
Nickel (diss.fit) Lead (diss.filt)	4(MAC) (182) 1.2(MAC) (184) (1), 8.6 (AA) (2), 34 (MAC) (182) 1.2(MAC) (184) (1), 1.3 (AA) (2), 14 (MAC) (182)	14.98 9.64	1.23 0.025	1.07	1.09 0.07423994	0.86	1.15 0.050823498	1.07	1.01 0.025	1.20	1.18 0.025		1.18 0.025	1.10 0.025	1.34 0.025	1.09	1.13 0.025	1.14 0.025	1.06 0.025	1.10 0.025	1.05 0.025	1.01 0.025	1.05 0.025				
Antimony (diss.filt)	5 (5)	2.04																									
Selenium (diss.filt) Zinc (diss.filt)	10(5) 10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (AB) (2)	37.15	0.42	0.10	0.10	0.10 1.50	0.10	0.10	0.10	0.10	0.10		0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	+			
Iron (Total)																											
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)			0.13	0.13	0.06	0.13	0.13	0.13	0.13	0.13		0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13				
Chromium VI (diss.filt) Aluminium (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%le) (2)		50	0.025	0.025 50	0.025	0.025	0.025 50	0.125	0.025	0.025		0.054	0.025	0.025	0.025	0.025	0.025	0.025 164.5187271	0.025	0.025	0.025	0.025				
Vanadium (diss.filt)			0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025		0.025	0.025	0.025	0.025	0.025		0.025	0.025	0.025	0.025	0.025				
Phenois Phenois, Total	ug/l 7.7 (1&2) 46 (95th%ile) (1&2)																										
Speciated TPH Aliphatics	ug/l																										_
Aliphatics EC CS-C6	15000 (7)																										
EC>C6-C8 EC>C8-C10	15000 (7) 300 (7)				1																		+	+			
EC>C10-C12	300 (7) 300 (7)																										
EC>C12-C16 EC>C16-C21	300 (7)																										t
EC>C21-C35 EC>C35-C44																											
Aromatics EC CS-C7																											
EC: <c7-c8 EC:<c8-c10< td=""><td>10 (7) 700 (7)</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>+</td><td>+</td><td></td><td></td><td></td></c8-c10<></c7-c8 	10 (7) 700 (7)				1																		+	+			
EC>C8-C10 EC>C10-C12	300 (7) 90 (7)																										
EC>C12-C16 EC>C16-C21	90 (7)																										
EC>C16-C21 EC>C21-C35	90 (7) 90 (7)				-																						
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)																										
Ethylbenzene	300 (8)																										
p/m-Xylene o-Xylene					-																						
Sum of detected Xylenes	500 (8)																										
Polyaromatic Hydrocabons Naphthalene (ap)	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)																										_
Acenaphthylene (aq)																											
Acenaphthene (aq) Fluorene (aq)	<u>:</u>																										
Phenanthrene (aq) Anthracene (aq)	0.1 (AA & MAC) (1 & 2)				-																						
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)																										
Pyrene (aq) Benzo(a)anthracene (aq)	-																										+-+
Chrysene (aq) Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)																										
Benzo(k)fluoranthene (aq)	0.017 (MAC) (182)																										
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	_	 		1		 		 						 							 	1	1			
Dibenzo(a,h)anthracene (aq) Renzo(a h i)nerviene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)																										
INORGANICS	mg/l																										
Dissolved Organic Carbon pH	6 - 9 (284)		4.7 8.1	4.4 8	7.9	6.1 7.8	5.7 7.6	4.4 7.8	7.1 7.8	6.9 7.7	5.3	8.5 8.1		5.6 8.2	7.9	8.27	6.3 7.8	5.2 7.7	6.4 7.9	5.1 7.9	5.7 7.9	4.3	4.58 8	2.8	3.1 7.4	7	9.9 6.8
Alkalinity (Total)	250 (5)		96	107	109	104	107	102	92	91	105	108		108	117	112 7.4	124	116	108	102	103	94	98	18	21	23 7.2	62
Chloride Ammoniacal Nitrogen	250 (5)		26 0.13	0.02	0.02	25 0.04	0.06	30 0.11	0.08	22 0.18	0.02	25 0.06		0.02	26 0.34	0.07	26 0.02	0.02	0.04	0.04	0.08	0.07	0.05	0.02	0.02	0.02	6.8 0.02
Nitrite Nitrate	50(5)	_	0.021 3.13	0.0025	0.009	0.008	0.017	0.018 1.34	0.017 1.98	0.015 2.36	0.006	0.014 2.25	l —	0.013	0.022	0.014 0.16	0.0025	0.0025	0.0025	0.0025	0.026 1.82	0.014	0.014 2.41	0.0025	0.0025	0.0025	0.0025
Sulphate	50 (5) 250 (5)		37.29	8.03	6.86	8.24	9.14	9.72	10.42	10.99	12.90	1.47	10.63	13.22	11.62	9.66	5.91	6.06	7.44	6.76	11.70	12.16	13.96	0.03	0.03	0.03	
Sulphide Calcium			40.60	37.02	36.91	38.10	38.21	38.08	36.03	35.99	40.79	l —	31.95	40.58	40.85	37.30	40.40	38.70	14.71	29.06	39.57	36.61	37.81	1	-		++
Potassium Magnesium			7.45 7.10	6.89 7.14	6.54 6.79	7.12 6.79	7.34 6.76	7.27 6.64	6.63 6.41	6.51 6.25	7.45 6.87		5.92 5.38	7.35 7.05	7.82 7.22	7.76 7.08	7.13 7.32	6.91 6.93	2.32 2.69	5.41 5.32	7.52 7.05	6.90 6.55	7.11 6.53				-
Sodium	200(5)		18.10	18.20	17.05	17.29	17.37	16.65	15.52	14.79	16.55		13.10	16.27	17.59	17.95	17.45	17.13	8.31	13.01	16.95	16.58	16.32				
Biochemical Oxygen Demand Chemical Oxygen Demand			1.0 10	1.0	2.4	1.0 10	1.0	1.0	2.6	2.7	4.7 19	2.1 14	 	3.3 16	1.5 19	4.2 16	1.5 17	1.5 16	2.9 14	1.5 15	1.5 14	1.5	1.5 25			5.0 56	11.0 7.5
Conductivity			336 3.15	328 0.03	313 0.23	309 0.47	322 0.84	320 1.36	303	298 2.37	336 0.97	344 2.26		339 1.71	344 0.36	324 0.17	343 0.03	327 0.03	307	300 0.54	326	311 1.71	329 2.42	0.03	0.03	100	241 0.03
Total Oxidisable Nitrogen Total Phosphorus			3.15 0.125						0.125	2.37 0.125				0.125		0.17			0.15 0.125	0.54	1.85 0.125		2.42 0.125	0.03	0.03		0.03 0.125
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The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern Ireland) 2015 Transitional waters.
 The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern Ireland) 2015 Transitional waters.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short term pollution-peaks in continuous discharges since they are significantly lower than the values derived on the basic of caucteriosity.

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)			Pond 3b												Pond 4					
HEAVY METALS	μg/l		25/10/2017	09/01/2019	15/01/2019 27/03/2019 28/03/2019	11/04/2019	29/04/2019 04	4/07/2019	05/07/2019	15/10/2019	22/01/2020	09/01/2019 19	5/01/2019 11/04/2019 2	9/04/2019 04/07/20	19 05/07/2019	15/10/2019	22/01/2020	07/09/2020	01/12/2020	09/03/2021	23/06/2021 23/	09/2021 14/12/2021
Arsenic (diss.filt)	50 (AA) (1) 25 (AA ((2)	1.05	0.47	13/01/2013 13/03/2013	0.41	(3)(04)(101)	4,07,2023	0.52	0.49	0.37	0.55	0.62	7,04,1013 04,07,1	0.85	0.70	0.45	0.76	0.44	0.33	0.77	1.32 0.66
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2)	CaCO ₃ > 200 mg/l	0.025	0.025		0.025			0.025	0.025	0.025	0.025	0.025		0.025	0.025	0.025	0.025	0.025	0.025		0.025
Chromium (diss.filt)	50 (5) 1 (AA) bioavailable (see Note 1) (1)	(see Note f) co.	0.125	0.125 1.059	0.250	0.250 1.110			0.250	0.250	0.125	0.125	0.250 1.190		0.250 1.630	0.250 1.240	0.125	0.125	0.125	0.125 0.585	0.125	0.125 0.125 0.593 0.754
Copper (diss.filt) Iron (diss.)	1 (AA) bioavailable (1) 1000 (AA) (1&2)) (see Note 4) (2) 34.94	766	20		20			20	20	20	20	1.190		1.630	20	20	20	20	0.585		20 20
Mercury (diss.filt)	0.07 MAC (182)		0.0025			0.0025			0.0025	0.00517	0.0025	0.0025	0.0025		0.0025	0.0025	0.0025		0.0025	0.0025	0.0025	
Manganese (diss.filt)	123 (AA) (*** *****************************	276.92	224	12.5		12.5			123	12.5	12.5	12.5	45		12.5	58	12.5	35.94809711	48.2638333	12.5	66.45434206 85.3	
Molybdenum (diss.filt) Nickel (diss.filt)	70 (8) ? 4************************************	14.98 (MAC) (182)		1.27		0.97							1.84									1.09 1.22
Lead (diss.fit)	1.2(MAD (1), 8.6 (AA) (2), 3	14 (MAC) (1&2) 14.98 14 (MAC) (1&2) 9.64	1.97 0.125	0.125		0.125			1.11 0.125	0.95 0.125	0.90	1.71 0.125	0.125		1.96 0.125	1.47 0.125	1.37 0.125	1.06 0.025	1.08 0.025	0.91		1.09 1.22 0.025 0.025
Antimory (diss.filt)	5 (5)		0.113						0.113	0.125	0.115				0.123	0.113		0.023	0.025		0.025	
Selenium (diss.filt)	10(5)	10	0.20	0.39		0.59			0.51	0.52	0.49	0.30	0.48		0.40	0.46	0.44	0.10	0.10	0.10		0.10 0.10
Zinc (diss.filt) Iron (Total)	10.9 (AA) (1) +ABC bloavailable 6.8 (A	A) (2) +ABC (************************************	0.50	0.50		0.50			0.50	0.50	0.50	0.50	0.50		0.50	0.50	0.50	1.19	0.25	0.25	0.81	0.25 0.25
Manganese (Total)																						
Chromium III (diss filt)	4.7 (AA) (1) 95th%ile ((32)			0.25	0.25			0.25	0.25			0.25		0.25	0.25		0.13	0.13	0.13		0.13 0.13
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (9	95th1@le) (2)			0.025	0.025			0.025	0.025			0.025		0.025	0.025		0.025	0.025	0.025	0.025	0.025 0.025
Aluminium (diss.filt) Vanadium (diss.filt)			0.125	0.025		50 0.025			50	50 0.025	0.025	50 0.025	50 0.025		50	0.025	50 0.025	50 0.025	50 0.025	50 0.025	50 0.025	50 50 0.025 0.025
Phenois	ug/l		0.223	0.02.5		0.04.5					0.023	0.023	0.02.3			0.04.5	0.02.3	0.02.3	0.02.5	0.02.5	3,04,3	0.02.3
Phenols, Total	7.7 (1&2) 46 (95th%ile) ((182)																				
Speciated TPH Aliphatics	ug/l																					
Aliphatics EC C5-C6	15000 (7)		1	1	 	+						f			_	+	 	 	1	-		-
EC>C6-C8	15000 (7)																					
EC>C8-C10 FC>C10-C12	300 (7)																					
EC>C10-C12 EC>C12-C16	300 (7)																					
EC>C16-C21	300 (7)			-																		
EC-C21-C35 EC-C35-C44																						
Aromatics FC CS-C7	10 (7)															_						
EC>C7-08	700 (7)			-																		
EC>C8-C10	300 (7)																					
EC>C10-C12 EC>C12-C16	90 (7)																					
EC-C16-C21	90 (7)															_						
EC>C21-C35	90 (7)																					
Benzene	10 (AA) MAC 50 (1), 8 (AA) M	MAC 50 (2)																				
Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 9 300 (8)	95th%ile (370) (2)																				
Ethylbenzene p/m-Xylene	300 (8)			-																		
o-Xylene																						
Sum of detected Xylenes	500 (8)																					
Polyaromatic Hydrocabons Naphthalene (ag)	μg/l 2 (AA) (1 &2) 130 (MAC	C 18-2)																				
Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC	C 102)		-																		
Acenaphthene (aq)																						
Fluorene (aq)	-																					
Phenanthrene (aq) Anthracene (aq)	0.1 (AA & MAC) (1 &	2)																				
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12																					
Pyrene (aq)			1	1													-		1			
Benzo(a)anthracene (aq) Chrysene (aq)	-		 	-								-				+	-	-	1			_
Benzo(b)fluoranthene (aq)	0.017 (MAC) (18-2	2)	1	1												1		1	1			
Benzo(k)fluoranthene (aq)	0.017 (MAC) (18.2)	ń .																				
Renzo(a)nyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27	7 (1) 0.027 (2))	1	1		-		-	-			I - I				1 -	1	1	1 -	-		-
Indeno(1,2,3-cd)pyrene (aq) Diberizo(a,h)anthracene (aq)	1		1	1	 	 		-							-	+		1	1			-
Benzo(g.h.i)pervlene (ag)	0.0082 (MAC)(1) & 0.00082	2 (MAC) (2)	1	1												1		1	1			
INORGANICS	mg/l																					
Dissolved Organic Carbon	6 - 9 (2&4)		5.5 7.6	+	5.4 4.8 79 8		5.4 8.4	6.6		6.1	5 81	 	4.5 7.9	7.2 6.9		4.7	4.2 7.3	5.8	3.8 7.5	4.5 8	6.4 7.8	4.8 4.7 7.8 7.8
pH Alkalinity (Total)	0-9 (284)		7.b 58	1	7.9 8 97 95		98	95		6.b 98	102		7.9	89 88	-	90	7.3	7.9	7.3	70	7.0 83	7.8 7.8 91 79
Chloride	250 (5)		14		24 25		27	26		26	26		21	23 22		23	24	25	29	21	21	21 21
Ammoniacal Nitrogen			0.09		0.07 0.02			0.06		0.05	0.14		0.02	0.02 0.02		0.18	0.4	0.04	0.12	0.02		21 21 0.02 0.06 .0025 0.0025
Nitrite Nitrate	EO (E)		0.0025	1	0.014 0.008 0.93 1.87			0.006		0.005	0.018			0.006 0.0029		0.011	0.012 1.1	0.006	0.023	0.005		.0025 0.0025 2.83 0.29
Sulphate	50 (5) 250 (5)		20.10	11.60	0.93 1.87	16.20	1.02	0.23	13.70	9.33	11.10	16.70	17.00	0.34 0.03	16.20	15.60	18.30	10.95	1.39	13.67		2.83 0.29 8.36 8.80
Sulphide	150 (5)				0.005																	
Calcium			22.20	36.00		39.00			36.10	35.70	38.21	30.30	29.90		31.80	32.40	32.23	28.92	28.99	27.47		29.34 21.46
Potassium Magnesium	+		2.72 4.11	6.78 6.12		7.55 6.56			6.87	6.69	7.71 6.84	6.51 6.92	6.18 6.62		6.51 7.57	6.39 7.27	6.56 7.05	5.56 6.55	6.44 6.31	5.71 5.99	6.25 6.66	6.21 5.22 6.91 5.00
Sodium	200(5)		7.31	15.80		17.10			17.70	16.90	17.34	13.80	14.20		15.70	15.00	15.31	13.99	13.90	12.93	13.69	13.54 10.21
Biochemical Oxygen Demand			1.5		2.4 3.0		3.3	1.0		1.5	1.5		3.5	4.0 2.7		1.5	5.2	2.7	1.0	3.3	2.8	2.5 2.9
Chemical Oxygen Demand			20	1	10 15	-	23 330	10	-	10	10		10	22 10 291 286		10	10 300	20 273	5 267	13		18 15
Conductivity Total Oxidisable Nitrogen			233	-	308 319 0.94 1.88			314 0.26		324 0.64	326 1.8	-	282 0.68	291 286 0.35 0.03		304 0.39	300 1.11	273 0.31	267 1.41	250 0.5	271 0.09	275 266 2.83 0.29
Total Oxidisable Nitrogen Total Phosphorus			0.125	1	0.125 0.125			0.125		0.125	0.125			0.125 0.125		0.125	0.125		0.125	0.125	0.125	
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The Water Framework Directive (Priority Substances and Casofication) Regulations(Riomthern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Casofication) Regulations(Riomthern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Casofication) Regulations(Riomthern Ireland) 2015 Transitional waters.
 The Commodwater Directive (Priority Substances and Casofication) Regulations(Riomthern Ireland) 2015 Transitional waters (Priority Substances) Regulational Water Framework Directive)
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MAC. This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS), Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution-peaks in continuous discharges since they are significantly lower than the values defined on the basic of accretional the basic of accretional transfer.

Note: Collocuration devined via the Metal Biovariability Association Tool (M-BAT) developed by WIDTAG. Look at receptor specific association to a trial PRE-Clinicative M-Intro/level will fail. An epitrocorect/invers falses white M-Intro-level M-Intro-lev

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)								Po	ond 5															
HEAVY METALS	μg/l		24/01/2022 20/0	7/2016 09/08/201	09/01/2019	15/01/2019	11/04/2019	29/04/2019	04/07/2019	05/07/2019	15/10/2019	22/01/2020	07/09/2020	01/12/2020	09/03/2021	23/06/2021	14/12/2021	24/01/2022	20/07/2016	09/08/2016	27/09/2016	09/01/2017	11/01/2017	06/03/2017	18/07/2017	15/08/2017
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		0.54		1.12		1.22			2.27	0.83	0.72	0.76	0.51	0.48	1.30	0.95	0.64				12.50		12.50	0.23	
Cadmium (diss.filt) Chromium (diss.filt)	50 (5)	 	0.025 0.125		0.025		0.025			0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025				5.000 12.500		5.000 12.500	0.025 0.125	0.125
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (1&2)	34.94	0.843		0.500		0.596			0.500	0.500	0.708	0.250	0.250	0.250	0.250	0.506	0.728				10.000		10.000	1.130	
Iron (diss.) Mercury (diss.filt)	1000 (AA) (1&2)		20		20		150			966	171	81	158	47	42	707	305	93				50		50	50	
Manganese (diss.filt)	0.07 MAĆ (182) 123 (AA) (^{668 1598 1})	276.92	0.0025 12.5		0.0025 25		0.0025 239			0.0025	0.0025 81	0.0025 12.5	0.0025 43.55648841	0.0025 12.5	0.0025 40.60607289	0.0025	0.0025 60.6709529					0.0025 62		0.0025 113	0.0025 59	
Molybdenum (diss.filt)														11.7												
Nickel (diss.filt) Lead (diss.filt)	4 ⁽¹⁸⁸⁾ (AA) (1), 8.6 (AA) (2), 34 (MAC) (182) 1.2 ⁽¹⁸⁸⁾ (8A) (1), 1.3 (AA) (2), 14 (MAC) (182)	14.98 9.64	1.17		3.16		2.42			2.35	3.36	1.92	1.43	1.32	1.07	0.92	2.38	2.02				12.50		12.50	1.15	
Antimony (diss.filt)	5 (5)	5.04	0.025		0.125		0.125			0.125	0.125	0.125	0.025	0.025	0.025	0.025	0.025	0.025				12.5		12.5	0.125	
Selenium (diss.filt)	10(5)	10	0.10		0.30		0.49			0.39	0.37	0.33	0.10	0.10	0.10	0.10	0.10	0.10							0.49	0.10
Zinc (diss.filt) Iron (Total)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (1000 MOST 2)	37.15	0.25		0.50		0.50			0.50	0.50	0.50	0.25	0.25	0.25	0.25	0.81	0.25				10.00	555	10.00 3400	1.32 310	
Manganese (Total)																							75	197	76	
Chromium III (diss.filt) Chromium VI (diss.filt)	4.7 (AA) (1) 95th/sile (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th/sile) (2)		0.13				0.25			0.25	0.25		0.13	0.13	0.13	0.13	0.13	0.13							0.25	
Aluminium (diss.filt)	3.4 (AA) (1), 0.0 (AA) (2), 32 (3011/310) (2)	 	0.025 50		50	†	0.025 50			0.025 50	0.025 50	50	0.025 50	0.025 50	0.025 50	0.025	0.025 50	0.070 50	-	-	 	50		50	0.025 50	0.025
Vanadium (diss.filt)			0.025		0.025		0.025				0.025	0.025	0.025	0.025											0.051	
Phenois Total	ug/l 7.7 (182) 46 (95th%ile) (182)																									
Speciated TPH	ug/I																									
Aliphatics EC CS-C6	15000 (7)																									10
EC>C6-C8 EC>C8-C10	15000 (7) 15000 (7) 300 (7)	+			+	 					 		 								-					
																										12.5 7.5
EC>C10-C12	300 (7) 300 (7)																					3.5				
EC>C12-C16 EC>C16-C21	300 (1)																					2.5		2.5		
EC>C21-C35 EC>C35-C44																						10		10		
Aromatics		 											-									2.5		2.5		
EC CS-C7	10 (7)																									1
EC>C7-C8 EC>C8-C10	700 (7) 300 (7)																									2.5 25
EC>C10-C12	90 (7)																					3.5				
EC>C12-C16 EC>C16-C21	90 (7) 90 (7)																					3		3		
EC>C16-C21 EC>C21-C35	90 (7)																					15		15 15		
Benzene Toluene	10 (AA) MAC 50 (1) 8 (AA) MAC 50 (2)																									0.50
Toluene	74 (AA) 95th%le (380) (1), 74 (AA) 95th%le (370) (2) 300 (8)																									0.50
Ethylberizene p/m-Xylene	300 (8)				_																					0.50 1.00
o-Xylene	500 (8)																									0.50
Sum of detected Xylenes	500 (8)																									
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)																									
Acenaphthylene (aq)	•																									
Acenaphthene (aq) Fluorene (aq)					_																					
Phenanthrene (aq)	0.1 (AA & MAC) (1 & 2)																									
Anthracene (aq) Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)																									
Pyrene (aq)																										
Benzo(a)anthracene (aq)	*	1			-1								1													=
Chrysene (ag) Benzo(b)fluoranthene (ag)	0.017 (MAC) (1&2)	 			+	t	 				t	-	 		 		†	-	-	-	 			-		
Benzo(k)fluoranthene (aq)	0.017 (MAC) (182) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))																									
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	1			1	 	 			-	 		1	-	1		 				1 - 1				+	
Dibenzo(a,h)anthracene (aq)	-																									
Benzo(g,h,i)perylene (aq) TNORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2)																									
Dissolved Organic Carbon	***************************************		5.5	19 22	_	5.9		12.3	10.8		11.6	5	7.4	5.7	5.1	7.3	6.8	6.8	12	9.4	6.1	3.5		3.9	3.3	
pH	6 - 9 (2&4)	1		7.5 7.9		7.5		7.5	7.4		6.6	7.3	7.2	7.04	7.1	7	7.2	7.2	7.9	7.9	7.4			7.1	7	
Alkalinity (Total) Chloride	250 (5)	1	77	140 210 34 38	+	116 27		109 26	119	 	140 28	97	99 25	92	79 21	103	104 26	104 25	74 26	77	100 28	75 22		69 23	76	
Ammoniacal Nitrogen	230(3)		0.02 0	068 0.33		0.78		0.02	0.32		3.97	0.41	0.79	0.65	0.13	0.27	1.29	1.21	0.047	0.005	0.005	0.12		0.12	0.02	
Nitrite	EQ.(E)			039 0.01		0.017		0.0025	0.0025	1	0.01	0.009	0.0025	0.007	0.007	0.0025		0.016	0.3	0.078	0.1	0.031		0.007 4.02	0.012	
Nitrate Sulphate	50 (5) 250 (5)	 	0.46 13.80	1.25 0.25	21.50	0.94	12.60	0.03	0.03	4.26	0.14 7.95	0.86 16.10	0.03 4.92	0.52 9.17	0.62 11.45	0.03 3.03	0.23 14.81	0.9 17.00	15	SU	20	3.46 12.50		4.02	3.01 18.30	
Sulphide																										
Calcium Potassium		1	28.61 6.77		38.90 9.61	 	33.50 7.89			36.10 6.08	37.90 6.58	33.64 7.53	29.39 4.86	29.98 6.68	28.23 6.18	31.66 6.15	27.63 6.47	35.38 8.77	-	-	-	30.80	 	-+	36.80 4.36	
Magnesium			6.46		9.29		7.64			8.58	10.20	8.09	7.51	7.48	6.38	6.80	6.78	8.73				3.81		4.72	4.45	
Sodium	200(5)	1	13.81		19.00		16.50	40.0	4.4	18.40	23.00	17.28	17.12	15.79	13.28	14.62	12.96	17.20				13.30		12.70	14.10	
Biochemical Oxygen Demand Chemical Oxygen Demand		+	1.5 14		+	10	1	10.0 44	4.4 31		11.0 33	2.5	2.7	1.0	1.5	1.5 41	1.5 19	1.5 18	l	l	-					
Conductivity			263			376		337	323		386	318	288	290	261	287	334	338							307	_
Total Oxidisable Nitrogen Total Phosphorus		-	0.47			0.96	 	0.03 0.125	0.03		0.15 0.125	0.87	0.03 0.125	0.53	0.63	0.03	0.24	0.92			1 -	3.49		4.02	3.02	
Total Phospholus	1		0.125		-	0.123		0.125	0.123		0.123	0.123	0.123	0.125	0.123	0.123	0.123	0.125								-

- The Water Framework Directive (Priority Substances and Casoffication) Regulations (Northern Incland) 2015 Freshwater.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EGS). Where the MAC EGS are marked as "not applicable", the AA-EGS values are considered protective against short-term pollution-peaks in continuous discharges since they are significantly lower than the values derived on the basic of acutebroicity.

Notes: 4 Compositable derived via the Metal Bioavailability Assessment Tool (M-BAT) developed by WDTTAL Look at receptor specific assessment using the M-BAT (and the Metal Bioavailability Assessment Tool (M-BAT) developed by WDTTAL Look at receptor specific assessment using the M-BAT (and the Metal Bioavailability Assessment Tool (M-BAT) developed by WDTTAL Look at receptor specific assessment using the M-BAT (and the Metal Bioavailability Assessment Tool (M-BAT) developed by WDTTAL Look at receptor specific assessment using the M-BAT tool winting Look Card Look on the SE (And Look of Look o

Sample Point /	TSV	MBAT PNEC														cu	W1										
Determinands	139	(ug/l)														34	W1										
HEAVY METALS	μη/I 50 (AA) (1) 25 (AA (2)	2	9/08/2017	30/08/2017	31/08/2017	05/09/2017	07/09/2017	12/09/2017	14/09/2017	15/09/2017	18/09/2017	21/09/2017	22/09/2017	25/10/2017	30/11/2017	04/12/2017	12/01/2018	18/01/2018	17/04/2018	18/04/2018	26/06/2018	27/06/2018	03/10/2018	04/10/2018	09/01/2019	14/01/2019 11/04/2019	29/04/2019
Arsenic (diss.filt) Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		0.34		0.36	0.37	0.40	0.40	0.50		0.34	0.33		0.26	0.24	0.23	0.40		0.19			0.18 0.025	0.25		0.19	0.20 0.025	+
Chromium (diss.filt)	50 (5)		0.125 3.440		0.125 3.160	0.125 2.960	0.125 2.610	0.125 4.830	0.125 5.350		0.125 3.520	0.125 4.400		0.125 3.240	0.125 3.250	0.125 3.140	0.125 3.860		0.125 2.340			0.125 1.100	0.125 2.680		0.125 2.630	0.250 1.510	
Copper (diss.filt) Iron (diss.)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (1&2)	34.94	50		3.160 50	135	208	4.830	5.350		3.52U 246	145		3.240	3.250 47	3.140	3.860 73		2.340			1.100	2.680		2.630	1.510	_
Mercury (diss.filt)	0.07 MAĆ (182) 123 (AA) (*********************************	276.92	0.0025		0.0025	0.0025	0.0025	0.0025	0.0025		0.0025 82	0.0025		0.0025	53.7	0.0025	0.0025		0.0025				0.0025		0.0025	0.0025	
Manganese (diss.filt) Molybdenum (diss.filt)	70 (8) 2				86				70			78		51			31		69			15	191		88	78	+
Nickel (diss.filt) Lead (diss.filt)	4 ^(100 100 2) (AA) (1), 8.6 (AA) (2), 34 (MAC) (182) 1.2 ^(100 100 2) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	14.98 9.64	1.84		1.88	2.00	2.12	2.38			2.14	2.30		2.01	2.14	2.31	1.60		1.62			1.37	1.67		1.51	1.48	
Antimony (diss.filt)	1.2****** (AA) (1), 1.3 (AA) (2), 14 (MAC) (1&2) 5 (5)		0.125		0.125	0.125	0.125	0.125	0.125		0.125	0.125		0.125	0.125	0.125	0.125		0.125			0.125	0.125		0.125	0.125	+
Selenium (diss.filt) Zinc (diss.filt)	10(5) 10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (MA (AA) (AA) (AA) (AA) (AA) (AA) (AA)	10 37,15	0.94		0.10	0.90	0.98	0.93	0.97		0.97	0.97		0.98	0.81	0.93			0.70			0.75	0.98		0.88	0.78	
Iron (Total)	10.9 (AA) (1) +ABC bloavallable 6.8 (AA) (2) +ABC	37.15	1.51		0.50	1.60	4.68	2.76	4.50		2.43	2.54		1.35 582	2.14	3.42	2.94	569.5127446	1.90	246		1.70	2.23		1.64	2.49	+
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)													80				39.73653546		67						0.25	
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)				0.025																					0.064	+
Aluminium (diss.filt) Vanadium (diss.filt)			50		50	50	50	50	50		50	50		50	5	50	50		50			20	50		50	50	
Phenois	ug/l		0.192		0.191	0.125	0.124	0.149	0.227		0.123	0.133	_	0.125	0.089	0.075	0.206		0.054			0.025	0.090		0.025	0.057	
Phenols, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2)			22.50						22.50			22.50							22.50	22.50			22.50			
Speciated TPH Aliphatics EC CS-C6	ug/I																										
EC C5-06	15000 (7)				10													10		10	10			10			
EC>C6-C8 EC>C8-C10	15000 (7) 300 (7)	H + H	-		12.5 7.5				-									12.5 7.5		12.5 7.5	12.5 7.5			12.5 7.5			+
EC>C8-C10 EC>C10-C12	300 (7) 300 (7)																	5		5	5						
EC>C12-C16 EC>C16-C21	300 (7)		-				l					l						5		5	5						
EC>C21-C35 EC>C35-C44																		5		5	5						
																		5		5	5						
Aromatics EC CS-C7	10 (7)				1													1		1	1			1			
EC>C7-C8 EC>C8-C10	700 (7) 300 (7)				2.5													2.5 25		2.5	2.5			2.5			
EC>C10-C12	90 (7)				25													5		5	5			- 23			
EC>C12-C16 EC>C16-C21	90 (7) 90 (7)																	5		5	5						
EC>C21-C35	90 (7)																	5		5	5						
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)			0.50	0.50					0.50			0.50							0.50	0.50			0.50			
Ethylbenzene	300 (8)			0.50	0.50					0.50			0.50							0.50	0.50			0.50			
p/m-Xylene o-Xylene				1.00 0.50	1.00 0.50					1.00 0.50			0.50							1.00 0.50	1.00 0.50			1.00 0.50			
Sum of detected Xylenes	500 (8)			0.30	0.30					0.30			0.30							0.30	0.30			0.30			
Polyaromatic Hydrocabons Naphthalene (aq)	µg/l 2 (AA) (1 &2) 130 (MAC 1&2)																			0.003	0.003			0.003			
Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)		_																	0.003	0.001			0.001			+
Acenaphthene (aq) Fluorene (aq)	*																			0.001	0.001			0.019			
Phenanthrene (aq)	·																			0.002	0.002			0.006			
Anthracene (aq) Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)																			0.001	0.001			0.001			
Pyrene (aq)	0.0003 (AA) (1 & 2) 0.12 (MAC 1)																			0.004	0.001			0.001			
Benzo(a)anthracene (aq)																				0.001	0.001			0.001		-	+
Chrysene (aq) Benzo(b)fluoranthene (aq)	0.017 (MAC) (182) 0.017 (MAC) (182) 0.00017 (AA) (18.2) MAC (0.27 (1) 0.027 (2))																			0.001	0.001			0.001			
Benzo(k)fluoranthene (aq)	0.017 (MAC) (182) 0.00017 (AA) (1.8.2) MAC (0.27 (1) 0.027 (2))	1 T								_										0.001	0.001		_	0.001			+
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.00017 (nn) (1 w 1) Fine (0.17 (1) 0.017 (2))																			0.001	0.002			0.001			
Dibenzo(a,h)anthracene (aq) Benzo(q,h,i)pervlene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	1 T								_										0.002	0.003		_	0.002			+
INORGANICS	mg/l																			5.002				0.002			
Dissolved Organic Carbon	6 - 9 (2&4)	 	3.1 7.1		3.1	3.4 7.1	3.3 7.2	4.6 7.3	5.6 7.3		3.6 7.1	3.8		7.2	2.7	2.9 7.7	-	2.83 7.1		7.1	2.8 7.1		2.9 6.7			2.8 7.1	2.4 7.1
pH Alkalinity (Total)			72		71	70	73	71	71		74	73		73	74	72		51		69	68		72			65	63
Chloride Ammoniacal Nitrogen	250 (5)		25.3		23	23	23	22 0.14	21		22	22		21	22	22		19		21	24 0.14		23			25	23 0.02
Nitrite			0.006		0.008	0.008	0.009	0.009	0.009			0.008		0.01	0.006	0.008		0.0025		0.09	0.018		0.025			0.019	0.009
Nitrate	50 (5) 250 (5)		3.63		3.53	3.42 17.70	3.46 17.50	3.42 15.00	3.38		16.80	3.5		3.9	4.22	4.18	9.66	2.49	16.70	4.11	3.51	18.80	3.59		10.50	5.78 20.60	5.31
Sulphate Sulphide	230 (3)	1	16.50		13.90	17.70	17.30	15.00	15.00			14.50		13.10	16.60	16.80	3.00		16.70				21.50		19.50		1
Calcium			35.10		34.80 4.70	36.20 4.77	36.60 4.96	34.00	33.30 6.17		36.40 4.67	34.50 4.53		29.30	37.60 4.73	38.80 4.79	25.50 4.31		34.90			35.10	36.30 4.57		38.10 4.79	36.80	
Potassium Magnesium			5.07 4.79		3.29	4.80	5.17	5.63 3.93	4.53	-	4.98	4.23		3.80	4.83	0.07	3.06		3.60 4.82	-		3.23 5.34	5.35		5.16	3.61 5.13	+
Sodium	200(5)		13.70		13.70	13.70	13.80	12.40			13.10	12.10		10.90	13.20	13.30	10.30		12.90			13.90			13.40	13.50	
Biochemical Oxygen Demand Chemical Oxygen Demand	+	 	7.5		1.5 17	1.0 22	1.0 7.5	1.5 15	1.5			1.5 7.5		1.5 20	1.5	1.0 5		1.5 10		1.5	2.6 10		3.9 10			2.1 10	1.5
Conductivity			297		299	293	301	294	288		296	292		299	311	305		222		296	286		307			324	301
Total Oxidisable Nitrogen Total Phosphorus	+	H + H	3.64 0.125		3.54 0.125	3.43 0.125	3.47 0.125	3.43 0.125	3.39 0.125			3.51 0.125		3.91 0.125	4.23 0.125	4.19 0.125		2.49 0.125		4.12 0.125	3.53 0.125		3.61 0.125			5.8 0.125	5.32 0.125
· oran · respective and																											

The Water Famework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Famework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Famework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Transitional waters.
 The Commission (Priority Water Famework Directive)
 A Productive (Priority Substances Classification)
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of autentional.

Note: 100000x18bit derived six the Metal Bisovalidability Assument Tool (M-BAT) developed by WETFAL Look at receptor specific assessment using the M-BAT of Color and Color and Color derived a 15th orderived to a 15th PMECESTANIE http://www.websa.org/introvence/fores takes restal floavisibility assessment tool on boat.

Note 2 COSDISIONALISE derived six the Metal Bisovalidability Assessment Tool (M-BAT) developed by WETFAL Look at receptor specific assessment using the M-BAT bod with psi / Color Color look on the 25th Assessment Tool (M-BAT) developed by WETFAL Look at receptor specific assessment using the M-BAT bod with psi / Color Color look on the 25th Assessment to Super Machine Assessment using the M-BAT bod with psi / Color Color look on the 25th Assessment to see the Machine Assessment using the M-BAT bod with psi / Color Color look on the 25th Assessment to see the Machine Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color Look of the 25th Assessment using the M-BAT bod with psi / Color

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																		SW	110					
HEAVY METALS	μg/l		04/07/2019 05/07/2019	15/10/2019	22/01/2020	01/12/2020	09/03/2021	23/06/2021	23/09/2021	08/12/2021	24/01/2022	09/01/2019	14/01/2019	27/03/2019	28/03/2019	11/04/2019	29/04/2019	06/01/2020	07/01/2020	22/01/2020	01/12/2020	11/01/2021	03/02/2021	09/03/2021	20/04/2021	21/04/2021
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		0.25	0.28	0.20	0.23		0.17	0.28	0.59	0.23	0.40			0.37	0.51		0.27		0.30	0.34	0.35	0.40	0.31		0.38
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		0.025 0.250	0.065	0.054	0.060	0.025	0.025 0.125	0.025	0.025 0.254	0.053	0.025 0.125			0.025 0.250	0.025 0.250		0.025		0.025	0.025 0.125	0.025 0.125	0.025	0.025 0.125		0.025
Chromium (diss.filt) Copper (diss.filt)	DU (5)	34.94	2.110	14.800	2.362	2.377	1.571	0.125	2.199	5.502	2.523	0.125	-		1.106	1.180		0.250		0.125	0.125	2.297	1.699	0.125		0.125 0.824
Iron (diss.)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (182)	34.54	20	20	20	43	20	20	101	89	55	187			60	61		74	-	20	42	410	485	20		20
Mercury (diss.filt)	0.07 MAC (1&2)		0.0025	0.0025	0.0025	0.0025		0.0025	0.0025	0.0025	0.0025	0.0025			0.0025	0.0025		0.0025		0.0025	0.0025	0.0025		0.0025		0.0025
Manganese (diss.filt)	123 (AA) (*********************************	276.92	53	57	39.54138832	38.99980352		12.5	71.17139446	12.5	38.10245583	904			187.1400753	337		46.51554867			73.01486015		46.70387695			165
	70 (8) ?	14 98																								
Nickel (diss.fit) Lead (diss.filt)	4)************************************	14.98 9.64	1.43		1.60	1.57	1.42	1.25	1.35	1.78	1.56	1.13			0.87	1.14		0.67		0.80	0.91	1.36	1.23	0.94		1.10
Antimony (diss.filt)	1.2 (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	5.04	0.125	0.125	0.125	0.025	0.025	0.025	0.025	0.126682095	0.025	0.125	-		0.125	0.125		0.125		0.125	0.025	0.109800408	0.240452201	0.025		0.025
Selenium (diss.filt)	10(5)	10	0.78	1.13	0.93	0.99	0.44	0.29	0.43	0.63	0.57	0.51			0.55	0.59		0.48		0.55	0.10	0.10	0.10	0.10		0.10
Selenium (diss.filt) Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (MARKET)	37.15	1.93	7.95	1.68	3.57	2.15	1.63	1.74	4.66	2.49	0.50			0.50	0.50		0.70		0.50	0.80	2.76	3.77	1.22		0.69
Iron (Total)																										
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)																									
Chromium III (diss.hit) Chromium VI (diss.filt)	4.7 (AA) (1) 95th%ile (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.25 0.025	0.25		0.13 0.148	0.13	0.13	0.13	0.13	0.13				0.25	0.25		0.25			0.13 0.055	0.13 0.125	0.25	0.13		0.13
Aluminium (diss.filt)	3.4 (AA) (1), 0.0 (AA) (2), 32 (90til/site) (2)		50	50	50	0.148 50	50	0.069 50	0.025	0.059 50	0.025	so.	-		50	0.025		50		SO.	50	0.125 50	0.025 50	0.025 S0		0.055
Vanadium (diss.filt)			~	0.131	0.061		0.051			0.272	0.086	0.025			0.025			0.025		0.025		0.151		0.025		0.025
Phenois	ug/l																									
Phenois, Total Speciated TPH Aliphatics EC CS-C6	7.7 (1&2) 46 (95th%ile) (1&2)																									
Speciated TPH	ug/l																									
Aliphatics FC CS-C6	15000 (7)	+		+	+	-	 	-	-			 	1	 	 	-										
FC>C6-C8	15000 (7)	+		+	+		l					t	1 -	l	t										1	-
EC>C8-C10	300 (7)			1								i e			i e											-
EC>C10-C12	300 (7)																									
EC>C12-C16	300 (7)																									
EC>C16-C21 EC>C21-C35																										
EC>C35-C44				_	+								-													
Aromatics EC CS-C7	10 (7)																									
EC>C7-C8	700 (f)																									
EC>C8-C10 EC>C10-C12	300 (7)																									
EC>C12-C16	90 (7)	_										_	_													$\overline{}$
EC>C16-C21	90 (7)			_	+								-													
EC>C21-C35	90 (7)																									
Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)																									
Toluene Ethylbenzene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)																									
	300 (8)																									
p/m-Xylene				_	+								-													
o-Xylene Sum of detected Xylenes	500 (8)		-																-							_
Polyaromatic Hydrocabons	99/1 2 (AA) (1 &2) 130 (MAC 1&2)																									
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)																									_
Acenaphthylene (aq)	•																									
Acenaphthene (aq) Fluorene (aq)	i i			_	+								-													
Phenanthrene (aq)	•																									
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)																									
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)			1	1																					
Pyrene (aq)	-	1					l								1											
Benzo(a)anthracene (aq) Chrysene (aq)	 	+		+	+	-	 	-	-			 	1	 	 	-										
Benzo(b)fluoranthene (aq)	0.017 (MAC) (182) 0.017 (MAC) (182) 0.00017 (AA) (18.2) MAC (0.27 (1) 0.027 (2))	1		1	1	†			—			l			†											-
Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2)																									
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))				1						_															
Indeno(1,2,3-cd)pyrene (aq)	*	1	 	+	-	1	 	-	1	1			1	-	-	1										
Dibenzo(a,h)anthracene (aq) Benzo(q,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	+		_	1							-	_		-											-
INORGANICS	mg/l	1			—						_	—			t —											
Dissolved Organic Carbon			2.7	3	2.3	2.6		2.4	2.4	5.9	3.5		5.8	4.4			6.5		3.3	3.9	3.9	8.5		4.3	8.7	-
pH	6 - 9 (2&4)		7	7.1	7.3	6.7	6.8	6.6	7	6.9	6.7		7.3	7.3			7.7		7.4	7.8	7.1	7.5	7.3	7.2	7.6	
Alkalinity (Total)	250 (5)		70	77	70	67	63	66	77	63	71		102	87			106		83	86	87	46	30	90	111	
Chloride	250 (5)	+	23	21	23	26	0.02	23 0.02	23	20	0.05	-	26	27 0.02	-		27		28	27 0.02	0.06	20	13	24	24	-
Ammoniacal Nitrogen Nitrite		+	0.07	0.0025	0.005	0.02	0.0025	0.02	0.008	0.0025	0.007	-	0.06 0.021	0.02	-	-	0.02		0.02	0.02	0.06	0.07	0.07	0.08	0.09 0.021	
Nitrate Nitrate	50 (5)	+	5.09	5.12	5.31	5.9	3.74	4.12	2.7	4.7	5.51	t	2.17	3.9	t		0.68		6.48	5.84	4.08	1.04	0.65	5.56	1.92	
Sulphate	50 (5) 250 (5)		18.60	18.80	18.10	17.73	18.79	18.61	20.18	14.35	19.42	18.60			18.30	15.30		15.63		15.30	14.11	7.65	5.18	15.68		11.05
Sulphide															0.005			0.027								
Calcium			38.50	40.20	39.20	39.73	37.73	36.06	37.90	33.96	40.20	43.90			40.11	40.80		33.63		41.53	38.82	20.28	13.34	40.56		32.83 6.09
Potassium Magnesium	+	1	4.17 5.56	4.84	4.26 5.37	4.29 5.22	3.95 5.27	2.85	4.41 5.55	6.76	4.20 5.39	8.23 5.33	1	-	8.58 5.48	7.50 6.24		4.41		9.04	8.40 5.70	2.00	1.97	8.05 5.94		6.09 5.11
Magnesium Sodium	200(5)	+	5.56 14.00		5.37 13.70	5.22 13.37		5.37 13.43	5.55 14.33	4.02 10.95	5.39 13.30	5.33 16.10	1	 	5.48 16.00	6.24 16.90		4.39 11.26		6.16 16.79	5.70 15.91	3.46 12.54	2.25 8.79	5.94 15.31		5.11 12.60
Biochemical Oxygen Demand	200[3]	+	2.1	1.5	1.0	20.07	1.5	1.5	3.6	1.5	1.5	20.20	2.4	3.5	20.00	20.50	4.7	22.20	1.0	1.0	43.94	1.0	2.4	15.51	3.0	12.00
Chemical Oxygen Demand			10	10	10	5	5	5	5	20	5		10	13			22		10	10	5	16	26	13	16	
Conductivity			310	312	317	313	294	297	345	268	304		358	337			341		357	352	324	189	127	334	347	
Total Oxidisable Nitrogen	1		5.12 0.125	5.12	5.31 0.125	5.91	3.74	4.13	2.71	4.7	5.52 0.125		2.19 0.125	3.91			0.69		6.5	5.86 0.125	4.11	1.05	0.66	5.58	1.94	
Total Phosphorus	1	1	U.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125		0.125	0.125		1	0.125		0.125	0.125	0.125	0.125	0.125	0.125	0.125	

The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern related) 2015 Feathwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern related) 2015 Feathwater.
 The Cassification (Priority Substances and Cassification) Regulations (Northern related) 2015 Framilismol water.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS valuesare considered protective against short term pollution-peaks in continuous discharges since they are significantly lower than the values denied on the basic of acute

Note:

Note: 4 - Totalogical aliable derived via the Metal Biovariability Assessment Total (M-BAT) developed by WDTTAC Look at receptor specific assessment using the M-BAT (aveloped by WDTTAC Look at receptor specific assessment using the M-BAT (aveloped by WDTTAC Look at receptor specific assessment using the M-BAT (aveloped by WDTTAC Look at receptor specific assessment using the M-BAT (aveloped by WDTTAC Look at receptor specific assessment using the M-BAT (aveloped by WDTTAC Look at receptor specific assessment using the M-BAT (aveloped by MDTTAC Look at receptor specific assessment using the M-BAT (aveloped by MDTTAC Look at receptor specific assessment using the M-BAT (aveloped by MDTTAC Look at receptor specific assessment using the M-BAT (aveloped by MDTTAC Look at receptor specific assessment using the M-BAT (aveloped by MDTTAC Look at receptor specific assessment using the M-BAT (aveloped by MDTTAC Look at receptor specific assessment using the M-BAT (aveloped by MDTTAC Look at receptor specific assessment using the M-BAT (aveloped by MDTTAC Look at receptor specific assessment using the M-BAT (aveloped by MDTTAC Look at receptor specific assessment using the M-BAT (aveloped by MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC LOOK at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor speci

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Sample Point / Determinands	TSV	MBAT PNEC (ug/l)				SW11																			
HEAVY METALS	μg/I		11/05/2021	24/01/2022	22/03/2022	28/03/2019	09/01/2019	14/01/2019	07/02/2019 11	1/02/2019 27/0	03/2019 28/03/2019	11/04/2019	29/04/2019	21/05/2019	22/05/2019	19/06/2019 20/06/2019	04/07/2019	05/07/2019	07/08/2019	08/08/2019	10/09/2019	11/09/2019	15/10/2019	06/11/2019 06	6/01/2020
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		0.47	0.36	0.37	0.37	0.28			0.35	0.27	0.29			0.29	0.30		0.31		0.35	,,	0.35	0.30	0.31	0.29
Cadmium (diss.filt) Chromium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		0.025 0.125	0.025 0.125	0.025 0.125	0.025	0.057			0.070	0.063	0.062			0.025	0.025 0.250		0.025	+	0.025		0.063	0.066 0.250	0.073	0.060
Copper (diss.filt)	1 (AA) bigavailable (see Note 1) (1) (see Note 4) (2)	34.94	0.954	1.019	0.834	1.059	3.897			5.401	3.470	2.920			2.304	4.520		3.290		4.054		4.545	4.520	4.828	4.010
Iron (diss.) Mercury (diss.filt)	1000 (AA) (182) 0.07 MAC (182)		89	20	59	20	20			20	68	46			53	20		52		20		20	20	70	499
Manganese (diss.filt)	123 (AA) (*********************************	276.92	0.0025 462,5127432	0.0025 110.4786489	0.0025 141.5291752	0.0025 12.5	0.0025 47			0.0025 12.5	41.7600235				0.0025 107.5021834	0.0025 30.14793751		0.0025 59	-	0.0025 42.57309535		0.0025 12.5	0.00666 45	56.32873264 51	0.0025
Molybdenum (diss.filt)	70 (8) ?	14.98																1.81							
Nickel (diss.filt) Lead (diss.filt)	4. (AA) (1), 8.6 (AA) (2), 34 (MAC) (1&2) 1.2 (MAR 7000 5) (AA) (1), 1.3 (AA) (2), 14 (MAC) (1&2)	14.98 9.64	0.025	0.91	0.88 0.025	0.99 0.125	1.67 0.125			1.90 0.125	1.58 0.125	1.80 0.125			1.53 0.125	1.72 0.125		1.81 0.125	+	1.78 0.125		1.64 0.125	1.93 0.125		1.84 0.125
Antimony (diss.filt)	5 (5)																								
Selenium (diss.filt) Zinc (diss.filt)	10(5) 10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (MA) (2)	10 37.15	0.10	0.10	0.10	0.49	1.08 2.27			0.93 3.05	0.85 3.45	0.88 4.60			0.75 3.35	1.00 2.38		0.92 2.56		1.30 2.15		1.15 3.83	1.17 3.35	1.15 4.24	1.01 3.32
Iron (Total)			0.07	0.73	0.23	0.30	2.27			3.03	200	7.00			3.33	2.50		2		1.17		3.03	5.33	7.27	3.32
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th*Gle (32)		0.13	0.13	0.13					0.71	0.25	0.25			0.25	0.25		0.25	-	0.25		0.25	0.25	0.25	0.25
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.025	0.025	0.025					0.078	0.025	0.025			0.025	0.250		0.025		0.062		0.120	0.077	0.025	0.025
Aluminium (diss.filt) Vanadium (diss.filt)			50 0.025	50 0.025	50 0.025	50 0.025	50 0.108			50 0.134	50 0.115	50 0.076			50 0.058	50 0.104		50	-	50 0.126		50	50 0.119	50	50 0.100
Phenois	υg/I		0.025	0.025	0.025	0.025	0.108			0.234	0.115	0.076			0.036					0.126		0.130	0.119	J.115	0.400
Phenois, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2)																								
Alinhatics	ug/l																								
EC C5-06	15000 (7)																								=
EC>C6-C8 EC>C8-C10	15000 (7) 300 (7)											-							-						
EC>C10-C12	300 (7)																								
EC>C12-C16 EC>C16-C21	300 (7)											+							+						
EC>C21-C35 EC>C35-C44																									
																			-						
Aromatics EC CS-C7	10 (7)																								
EC>C7-C8 EC>C8-C10	700 (7) 300 (7)																								=
EC>C10-C12	90 (7)																								-
EC>C12-C16 EC>C16-C21	90 (7) 90 (7)																								
EC>C21-C35	90 (7)											1							1						
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)																								
I diuene Ethylbenzene	74 (AA) 95th tale (360) (1), 74 (AA) 95th tale (370) (2) 300 (8)											-							-						
p/m-Xylene	· ·																								=
o-Xylene Sum of detected Xylenes	500 (8)											+							+						
Polyaromatic Hydrocabons	μg/l																								
Naphthalene (aq) Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)											-													-
Acenaphthene (aq)																									
Fluorene (aq) Phenanthrene (aq)												-													-
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)																								
Fluoranthene (aq) Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)																		-						
Benzo(a)anthracene (aq)	-																								
Chrysene (aq) Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)			<u> </u>					——			+	-				<u> </u>	<u> </u>					1		
Benzo(k)fluoranthene (aq)	0.017 (MAC) (18-2)																								
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))				1	1						+							+						=
Dibenzo(a,h)anthracene (aq)	=				1	1						1					1	1							
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2)																								
Dissolved Organic Carbon	mg/l		7.2	5.6	4.23			2.7	3.2		2.7		3	3.2		2.8	3.3		1.9		3.5		2.9	3	
Hq	6 - 9 (2&4)		7.8	7.2 95	7.2	L		7.2	7.3		7.2	1	7.3	7.2 74		7.4	7 75		7.3		7.1 75		7.1	7 83	
Alkalinity (Total) Chloride	250 (5)		121 24	22	91 22	t		66 25	66 33		64 25 0.02		70 26	25		75 24	24	-	23		20		81 21	21	$\overline{}$
Ammoniacal Nitrogen			0.11	0.04 0.017	0.02 0.012			0.02	0.02 0.0025		0.02		0.04	0.06 0.012		0.04	0.07 0.016		0.05		0.02		0.02 0.0025	0.05	
Nitrite Nitrate	50 (5)		0.01	3.71	0.012 3.77		-	0.0025 6.54	0.0025 9.01		7.71	+	0.009 5.79	0.012 4.94		0.01 5.9	0.016 5.24	1	7.5	\vdash	7.27		0.0025 5.38		-
Sulphate	50 (5) 250 (5)		11.23	16.14	15.99	15.79	19.50			17.87	17.61	22.40			22.92	19.32		19.60		22.32		18.31	18.90	19.64	6.40
Sulphide Calcium			43.72	41 37	38 39	37.44	40.30			0.005 43.24	0.005	41.50	 		0.005 40.22	0.005 40.08		41.60	1	0.005		0.005	42.20		0.027 17.44
Potassium			7.37	8.43	7.96	7.23	4.87			5.56	5.14	5.11			4.99	5.10		5.21		5.47		5.32	5.47	5.76	1.62
Magnesium Sodium	200(5)		6.87 15.81	5.98 15.67	5.69 15.17	6.24 16.89	5.22 13.70			5.46 13.47	4.99 13.79	5.56 14.20	 		5.87 14.44	5.29 14.25		5.71 14.50	-	5.41 14.17		5.01	5.37 14.20	5.45 13.88	3.07 8.73
Biochemical Oxygen Demand	200(2)		2.7	1.5	1.5	20.03	13.70	1.0	1.5		1.5	14.10	1.5	1.0	49.99	1.0	1.0	17.00	1.0	27.27	1.0	1370	1.5	1.0	
Chemical Oxygen Demand Conductivity			21 349	12 330	25 331	1		10 335	10 343		5 320	-	10 326	10 324		10 325	10 323		11 333		10 311		10 316	10 324	
Total Oxidisable Nitrogen			0.24	3.73	3.78	1		6.54	9.01		7.71		5.8	4.95		5.91	5.26	+	7.51		7.28		5.38	5.27	-
Total Phosphorus			0.125	0.125	0.125			0.125	0.125		0.125		0.125	0.3		0.125	0.125		0.125		0.125		0.125		

The Water Framework Directive (Priority Substances and Casofication) Regulations(Riomthern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Casofication) Regulations(Riomthern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Casofication) Regulations(Riomthern Ireland) 2015 Transitional waters.
 The Commodwater Directive (Priority Substances and Casofication) Regulations(Riomthern Ireland) 2015 Transitional waters (Priority Substances) Regulational Water Framework Directive)
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MAC. This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS), Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution-peaks in continuous discharges since they are significantly lower than the values defined on the basic of accretional the basic of accretional transfer.

Note: Collocuration devined via the Metal Biovariability Association Tool (M-BAT) developed by WIDTAG. Look at receptor specific association to a trial PRE-Clinicative M-Intro/level will fail. An epitrocorect/invers falses white M-Intro-level M-Intro-lev

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)		SW	V12																						
HEAVY METALS	l/gu/		07/01/2020				10/08/2020	07/09/2020					03/02/2021	09/03/2021	20/04/2021	21/04/2021											
Arsenic (diss.filt) Cadmium (diss.filt)	50 (AA) (1) 25 (AA (2) 0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l	-		0.31	0.37	0.32	0.33	0.45	0.38	0.35	0.32	0.30	0.44	0.29		0.29	0.27	0.30	0.46	0.41	0.50	0.50	0.41	0.56	0.35	0.41	0.34
Chromium (diss.filt)	50 (5)			0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.274	0.125		0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94		4.034	5.000	4.060	4.450	5.462	5.300	4.427	4.647	3.936	5.151	3.347		2.728	2.810	2.439	2.249	2.576	3.760	6.482	5.178	5.669	4.080	4.871	3.736
Iron (diss.) Mercury (diss.fit)	1000 (AA) (1&2) 0.07 MAC (1&2)	-		114 0.0025	43 0.0025	95 0.0025	20 0.0025	55 0.0025	20 0.0025	0.0025	66 0.0025	118 0.0025	80 0.0025	0.0025		72 0.0025	120 0.0025	56 0.0025	45 0.0025	79 0.0025	96 0.0025	20 0.0025	20 0.0025	46 0.0025	140 0.0025	49 0.0025	198 0.0025
Manganese (diss.filt)	123 (AA) (*********************************	276.92		40.11120259	29	45	12.5	32.18435077	12.5	34.02126925			33.4305245			74.4			825.5441911			12.5	12.5	12.5	36.43666142		44.33007162
Molybdenum (diss.filt) Nickel (diss.filt)	70 (8) ? 4************************************	14.98				1.62			1.94	1.74	1.90	2.48	1.81	1 74		1.54	1.67		3.20	1.43		1.90	1.66			1.52	1.71
Nickel (diss.filt) Lead (diss.filt)	1.2(MAC) (18.2) 1.2(MAC) (18.2) 1.2(MAC) (18.2)	14.98 9.64		1.83 0.125	1.62 0.125	0.055	0.025	1.80	0.025	0.025	0.025	0.025	1.81	0.025		1.54 0.087060891	0.025	1.92 0.025	3.20 0.025	0.025	1.25 0.065		0.070653765	1.63 0.116935013	1.75 0.025	1.52 0.107126439	0.025
Antimony (diss.filt)	5 (5)																										
Selenium (diss.filt) Zinc (diss.filt)	10(5) 10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (MA (2))	10 37.15		1.05	0.83	0.85	0.93	0.71	0.79	0.69	0.68	0.65	0.71	0.52		0.62	0.52	0.24	0.10	0.26	0.68	1.26	0.90	0.77	0.77	0.65	0.73
Iron (Total)	10.9 (AA) (1) +ABC bloavallable 6.0 (AA) (2) +ABC	37.15		2.56	6.07	2.65	1.40	1.61	4.83	1.91	2.13	2.84	2.40	2.25		1.53	1.90	2.47	2.89	3.88	0.25	3.91	2.02	2.97	3.79	2.52	2.18
Manganese (Total) Chromium III (diss fit)																											
Chromium III (diss.filt) Chromium VI (diss.filt)	4.7 (AA) (1) 95th%ile (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)						0.13	0.13	0.14	0.13	0.13	0.13	0.13	0.13		0.13	0.13	0.13		0.13	0.13		0.13	0.13			0.13
Aluminium (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95tit late) (2)			SO.	SO.	50	0.109	0.084	0.062	0.025	0.025 50	0.125 50	50	0.025		0.025	0.025	0.025 50	0.025	0.025	0.025	0.105	0.025 50	0.066 50	0.108 50	0.066	50
Vanadium (diss.filt)				0.115	0.151	0.136	0.138		0.152			0.105		0.089		0.095	0.025		0.025	0.097			0.162		0.124	0.167	
Phenois	ug/l 7.7 (1&2) 46 (95th%ile) (1&2)																										
Phenois, Total Speciated TPH	7.7 (1&2) 46 (95th%le) (1&2) ug/l						_				_			_													
Aliphatics EC CS-C6																											
EC CS-C6 EC>C6-C8	15000 (7) 15000 (7)	1								+	-			-													
EC>C8-C80 EC>C10-C12	15000 (7) 300 (7)	1		- 1	- 1			l		1	t		1	t						1						-	
	300 (7)																										
EC>C12-C16	300 (7)																										
EC>C16-C21 EC>C21-C35																											
EC>C35-C44																											
Aromatics FC CS-C7	10 (7)	-								-																	
EC>C7-C8	700 (7)																										
EC>C8-C10	300 (7)																										
EC>C10-C12 EC>C12-C16	90 (7)	-								-																	
EC>C16-C21	90 (7)																										
EC>C21-C35	90 (7)																										
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)																										
Ethylbenzene	300 (8)	1								1	1			1													
p/m-Xylene																											
o-Xylene Sum of detected Xylenes	500 (8)																										
Polyaromatic Hydrocabons	μη/! 2 (AA) (1 &2) 130 (MAC 1&2)																										
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)																										
Acenaphthylene (aq) Acenaphthene (aq)																											
Fluorene (aq)																											
Phenanthrene (aq) Anthracene (aq)	0.1 (AA & MAC) (1 & 2)	-								-																	
Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)	1		- 1	- 1			l		1	t		1	t						1						-	
Pyrene (aq)	•	1									1			1													
Benzo(a)anthracene (aq) Chrysene (aq)	+	+	f		+			l		1	 		l	 	 				 	l	 	 					
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)																										
Benzo(k)fluoranthene (aq)	0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.0017 (AA) (18.2) MAC (0.27 (1) 0.027 (2))	1								1	1			1	1				1		1	1					
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.00017 (AM) (1 & 2) MAC (0.27 (1) 0.027 (2))	1	 					l		+	+	-	-	+						-			-				
Dibenzo(a,h)anthracene (aq)	A 6600 (H10) (4) A 6 60000 (H10) (N)																										
Berizo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2) mg/l									_																	
Dissolved Organic Carbon			2.9	2.8	3.5	3.4	2.2	4.8	4.1	3.5	3	4.9	7.2	3.7	5.6		2.9	4			3.8	3.7	4.8	5.6	4.6	3.8	2.97
pH	6 - 9 (2&4)		7.5	7.3	7.1	6.9	7.3	7.4	7.2	6.9	7	7.1	6.9	7	7.2		7.4	7.2	7.1	7.3	7.7	7.2	7.4	7	7	7	6.9
Alkalinity (Total) Chloride	250 (5)	+	80 24	77	68 23	72	69	73	78	75 78	76 79	76 25	71	78 22	85 20		86 21	95 27	107 22	89 25	97	88 19	83 20	73 20	79 22	71 28	78 23
Ammoniacal Nitrogen	230(3)		0.06	0.08	0.1	0.08	0.02	0.07	0.02	0.02	0.04	0.02	0.05	0.07	0.11		0.05	0.1	0.15	0.58	0.06	0.02	0.04	0.04	0.06	0.09	0.05
Nitrite Nitrate	EO/E)	1	0.009 5.29	0.008	0.005	0.0025	0.007	0.013 4.19	0.007	0.009	0.009 6.32	0.0025	0.006	0.0025 2.74	0.016		0.005	0.037	0.008	0.116	0.008	0.015	0.01	0.0025	0.009	0.005	0.009 5.44
Nitrate Sulphate	50 (5) 250 (5)	+	5.29	5.41 18.30	3.51 14.85	3.63 16.46	3.64 17.30	4.19 16.18	5.13 18.16	6.02 18.02	6.32 16.73	5.5 16.64	4.09 13.23	2.74 16.74	3.8	13.90	3.06 17.89	2.23 18.86	0.6 15.91	3.44 15.44	1.85 22.88	0.6 21.03	5.31 20.86	5.92 12.51	6.18 18.90	4.65 14.92	5.44 18.00
Sulphide								20.20									21.00										
Calcium Potassium		1 -		40.82	36.50 5.32	38.00 5.73	36.39 5.14	36.63 6.32	42.27 5.85	45.34 6.08	43.92 5.70	41.43 5.34	36.27 5.36	39.94 5.24	1	30.96 4.00	39.76 4.45	42.07	41.20 6.37	31.30 7.91	42.82 6.51	44.18 6.50	45.01	31.85 5.82	44.08	39.74	40.81
Magnesium Magnesium				5.30	4.40	4.84	4.67	4.65	5.28	5.60	5.39	5.30	4.41	5.10		3.92	5.26	5.62	5.92	4.77	5.76	5.19	6.61 5.29	3.69	5.55	6.08 4.77	5.01
Sodium	200(5)			13.65	12.00	13.00	12.70	12.02	12.83	14.20	13.59	13.17	11.42	13.47		10.20	12.99	14.46	14.60	11.44	15.44	13.17	13.35	9.35	13.63	14.22	12.62
Biochemical Oxygen Demand Chemical Oxygen Demand		-	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.0	 	3.2	1.5	3.6	2.5	1.0	1.5	1.5	1.5	1.5 11	1.5	1.5
Conductivity		1	326	315	288	10 294	294	290	320	325	334	322	276	301	312		311	326	323	332	338	335	314	300	327	312	25 323
Total Oxidisable Nitrogen			5.3 0.125	5.42	3.51	3.63	3.65	4.2	5.14	6.03	6.33	5.5	4.1	2.74	3.82 0.28		3.06	2.27	0.61	3.56	1.85	0.61	5.32	5.92	6.19	4.65	5.45
Total Phosphorus		1	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.28		0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125

The Water Framework Directive Priority Substances and Classification (Regulations (Riorthen Include))
 The Water Framework Directive (Priority Substances and Classification) Regulations (Riorthen Include) 2055 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Riorthen Include) 2055 Transitional values (Water Framework Directive) (Include Include Water) Directive) (Include Water) (Include

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of acutedocity.

Note:

Note: 1-Collocoval abile derived via the Metal Biovariability Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) (

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)								SW13										
HEAVY METALS	μg/Ι		09/01/2019	14/01/2019 07/02/2019	11/02/2019 27/03/2019	28/03/2019	11/04/2019	29/04/2019 21/05/201	9 22/05/2019	19/06/2019 20/06/2019	04/07/2019 05/07/2019	10/09/2019	11/09/2019	15/10/2019	06/11/2019 06/01/2	120 07/01/2020	22/01/2020	09/01/2019 15/01/20	19 07/02/2019 11/02/20	19 27/03/2019
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		0.40	14/01/1013 07/01/2013	0.44	0.26	0.37	13/04/1013	0.34	0.47	0.39	10/03/2013	0.57	0.54	0.48 0.37	07/01/2020	0.34	0.37	19 07/02/2019 11/02/20 0.44 0.025 0.250	17/03/1015
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l		0.025		0.025	0.025	0.025		0.025	0.025	0.025		0.025	0.025	0.025 0.02		0.025	0.025	0.025	
Chromium (diss.filt)	50 (5)		0.125 1.506		0.250 2.996	0.250 1.239	0.250 1.840		0.250	0.250 1.923	0.250 1.050	_	0.250 7.480	0.250 2.550	0.250 0.25 2.186 1.73		0.125 1.313	0.125 1.499	0.250 2.523	
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (18.2)	34.94	617		404	223	397		104	1.923	211	_	7.480 870	720	2.186 1.73 835 499		1.313	1.499	401	
Iron (diss.) Mercury (diss.filt)			0.0025		0.0025		0.0025		0.0025	0.0025	0.0025		0.0025	0.0025	0.0025 0.002	5	0.0025	0.0025	0.0025	_
Manganese (diss.filt)	123 (AA) (*********************************	276.92	55		42.48329548	61.5665007			48.20306999	38.51152633	56		65.64872632	62	57.4342759 61.0902	831	59.57615369	79	40.770222	
Molybdenum (diss.filt) Nickel (diss.filt)	70 (8) ? 4************************************	14.98				1.04							1.69	1.71						
Lead (diss.fit)	1.2 (MAC) (1), 8.6 (AA) (2), 34 (MAC) (182)	9.64	1.19 0.125		1.25 0.33314555	0.125	1.13 0.125		0.85 0.125	1.31 0.125	1.03 0.125	_			1.54 1.25 0.125 0.12		0.125	1.23 0.125	1.18 0.2955611	
Antimony (diss.filt)	5 (5)		0.223		03334333	0.223	0.113		0.113	0.123	0.125		0.113	0.223	0.113		0.123	0.113	0.1333012	
	10(5)	10	0.26		0.20	0.35	0.42		0.31	0.30	0.39		0.45	0.44	0.37 0.30		0.40	0.29	0.10	
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC	37.15	3.01		4.89	1.94	3.87		0.50	2.28	0.50		5.15	2.85	3.19 2.73		1.72	3.69	4.20	
Iron (Total)												_								
Manganese (Total) Chromium III (diss.filt)	4,7 (AA) (1) 95th%ile (32)				0.25	0.25	0.25		0.25	0.25	0.25		0.25	0.25	0.25 0.29				0.25	
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)				0.025	0.025	0.025		0.025	0.025	0.025		0.025	0.025	0.025 0.02				0.025	
Aluminium (diss.filt)			50		102.5554659	50	50		50	50	50		50	50	50 50		50	50	102.0493	
Vanadium (diss.filt) Phenois	ug/I		0.165		0.346	U.098	0.129		0.059	0.205			0.242	0.220	0.187 0.15		0.122	0.152	0.338	
	7.7 (1&2) 46 (95th%ile) (1&2)					1														_
Phenols, Total Speciated TPH	ug/I																			
Aliphatics EC CS-C6	15000 (7)					1														\perp
EC 15-06	15000 (7)	_	 	 		+	+	 	+			+	1				+	 		
EC>C6-C8 EC>C8-C10	15000 (7) 300 (7)																			-
EC>C10-C12	300 (7)																			
EC>C12-C16	300 (7)																			
EC>C16-C21 FC>C71-C35																				
EC-C35-C44						-			_				+			_				
Aromatics FC CS-C7																				
	10 (7)																			
EC>C7-C8 EC>C8-C10	700 (7) 300 (7)																			
EC>C10-C12	90 (7)					-			_				+			_				_
EC>C12-C16	90 (7)				 		_				-									
EC>C16-C21	90 (7)																			
EC>C21-C35	90 (7) 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th*sile (380) (1), 74 (AA) 95th*sile (370) (2)																			
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)																			
Ethylbenzene	300 (8)				 		_				-									
p/m-Xylene																				
o-Xylene																				
Sum of detected Xylenes Polyaromatic Hydrocabons	500 (8) pg/l																			
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)																			_
Acenaphthylene (aq)																				
Acenaphthene (aq)	•																			
Fluorene (aq) Phenanthrene (aq)	:											_								
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)																			
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)																			
Pyrene (aq)	· · · · · · · · · · · · · · · · · · ·												\vdash							\perp
Benzo(a)anthracene (aq) Chrysene (aq)	+	_	 	 		+	+	 				+	1				+	 		-
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)		1			1	1					1	1				1			\neg
Benzo(k)fluoranthene (aq)	0.017 (MAC) (182) 0.017 (MAC) (182) 0.0017 (MA) (18 2) MAC (0.27 (1) 0.027 (2))																			
Benzo(a)pyrene (ag)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))					1	1													\perp
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq)	+ :		 		1	+	1		+ +				 				+	 		+
Benzo(g.h.i)pervlene (ag)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	_	t		 	+	+		_			_				_	-			-
INORGANICS	mg/I																			
Dissolved Organic Carbon	6 - 9 (28.4)			8.7 10.7 7.4 7.4	4.3	1	1	7.5 4.4 7.6 7.7		10.6	4.7	11.7	1	9.6	9.2 7.5	7.2	5.3	7.6 7.6		4.3 7.4
pH Alkalinity (Total)	o - 9 (2&4)	_	-	7.4 7.4 57 25	7.4 62	+	 	7.6 7.7 54 86	_	7.6 56	7.7 86	7.5 55	1 -	7.7		7.6 51	7.7 63	7.6	7.4	
Alkalinity (Total) Chloride	250 (5)	_	t	17 15	20	+	+	54 8b 18 19	+	56 16	20	15	1 -	17	61 17	51 16	18	53 18	14	64 20
Ammoniacal Nitrogen	/-/		T .	0.02 0.06	0.02	1	1	0.02 0.02		0.05	0.02	0.02		0.15	0.04	0.05 0.01	0.05	0.06	0.06	0.07
Nitrite				0.009 0.007	0.006			0.005 0.008		0.009	0.007	0.008		0.011	0.007		0.008	0.007	0.007	0.005
Nitrate Culabata	50 (5) 250 (5)		0.73	1.08 0.84	1.84	10.00	8.77	0.83 1.03	10.80	0.87	1.04	1.31	937	1.19	1.08 9.16 6.35	1.09	1.58	1.14		1.57
Sulphate Sulphide	250 (5)		9.73		5.63 0.005	10.66 0.005	8.//		10.80 0.005	9.13 0.005	11.10	+	9.37	9.56	9.16 6.35 0.005 0.03		10.20	10.10	5.68 0.005	
Calcium		_	24.30		12.01	27.29	23.10		32.64	22.76	34.90	_	23.44	25.50			27.07	25.70	11.98	-
Potassium			1.92		2.21	2.11	1.78		2.21	1.64	2.41 6.36		1.96	3.04	2.27 1.64		2.44	2.00	2.25 2.17	
Magnesium			4.40		2.17	4.57	4.29		5.95	4.26			4.02	4.42	4.37 3.08		4.56	4.65		
Sodium Bioshamical Occasion Domand	200(5)		11.20	40	9.65	12.94	11.60	4.5	13.01	10.84	13.50		10.76		11.18 8.78		12.29	11.50	9.61	
Biochemical Oxygen Demand Chemical Oxygen Demand	1	_	 	1.0 2.5 22 36	1.5 10	+	+	1.5 1.0 22 10	_	1.0 28	1.0	1.0	+ +	1.5 29	1.0 25	1.0	1.0	1.5		1.5
Conductivity			T .	213 128	229	1	1	200 264		193	272	193		323	207	187	225	223	127	10 231
Total Oxidisable Nitrogen				1.09 0.85	1.85			0.83 1.04		0.88	1.05	1.32		1.2	1.09	1.1	1.59	1.15	0.84	1.57
Total Phosphorus	1			0.125 0.125	0.125		1	0.125 0.125		0.125	0.125	0.125	1	0.125	0.125	0.125	0.125	0.125	0.125	0.125

The Water Framework Directive (Priority Substances and Classification) Regulations/Riorithen Ireland; 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations/Riorithen Ireland; 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations/Riorithen Ireland; 2015 Transitional waters.
 The Classification (Priority Substances and Classification) Regulations/Riorithen Ireland; 2015 Transitional waters, 1015 Transitional Water Framework Directive)
 Temporary (Priority Water Framework Directive)
 Temporary (Priority Water Standard * (Bodout Transition) Riorithen (Priority W

MAC. This parameter is the forcemental bushly Standard expressed as a maximum allowable concentration (MAC-EQS) where the MAC-EQS are marked as "not applicable", the AA-EQS subseas or considered protective against short term pollution peaks in continuous discharges since they are significantly lower than the value delivers on the base of accentancing.

Note: 1 Colicional salide derived via the Metal Biovaribability Assessment Tool (M.BAT) developed by WTDTAL Look at receptor specific assessment using the M. Service of the Service of th

Company Comp																										
## Author (Man) Aut	Sample Point / Determinands	TSV																		SW14						
Accordance (1988) Application (1988) Applica	HEAVY METALS	μg/l		28/03/2019	11/04/2019	29/04/2019 21/05/2019	22/05/2019	19/06/2019	20/06/2019	04/07/2019	05/07/2019	07/08/2019	08/08/2019	10/09/2019	11/09/2019	15/10/2019	06/11/2019	06/01/2020	07/01/2020 22/01/2020	26/02/2020	18/03/2020	10/08/2020	07/09/2020	13/10/2020	10/11/2020 0:	1/12/2020
Property Property	Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		0.28	0.35		0.32		0.46		0.40		0.56		0.57	0.53	0.46	0.37	0.33	0.37	0.34	0.56	0.55	0.58	0.45	0.42
Column C	Cadmium (diss.filt)				0.025		0.025	-					0.025					0.025								0.025
Property Property		1 (AA) biographia (see Note 1) (1) (see Note 4) (2)	34 94	1.297	2.650		1.010		11.653		1.230		2.360		2.067	2.450	0.250	1.496		1.850	1.590	1.910	1.929	2.410	1.634	1.553
Property Property	Iron (diss.)	1000 (AA) (1&2)		275	382		110		656		228		834		910	740	20	499	446	279	416	899	729	765	566	622
Column C		0.07 MAC (182)	670.00				0.0025				0.0025															
Control Provide (A) Control	Manganese (diss.riit) Molyhdenum (diss.filt)	70 (A) 2	276.92	90.23725254	55		86.79994784		68.69417832		110				89.07583368	80	125	61.09027831	80.90689267	-//	52	82	49.01545585	52.906/2926	84.93694948 85	.15405081
March (March (March March Nickel (diss.filt)	A (MAC) (1) 8 6 (AA) (2) 24 (MAC) (182)	14.98																							1.53	
Control Cont			9.64	0.125	0.125		0.125		0.125		0.125		0.125		0.125	0.125	0.125	0.125	0.125	0.125	0.206	0.177	0.246259469	0.317	0.128245815 0.3	127463591
Part Part	Antmony (diss.filt) Selenium (diss.filt)	5 (5)	10	0.33	0.40		0.29	+	0.31		0.35		0.47		0.42	0.43	0.48	0.30	0.39	0.32	0.10	0.10	0.10	0.10	0.10	0.10
Second Column Col	Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (MAN (A) (A) +ABC (MAN (A) (A) +ABC (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	37.15																							2.76
Contact of the Internal Cont	Iron (Total)																									
Contact Visit (19.15) Sign (19.1	Manganese (Total)	4.7 (AA) (1) 95th%(a (22)		0.25	0.25		0.25	1 1	0.25		0.25		0.25		0.25	0.26	0.60	0.25				0.25	0.26	0.25	0.12	0.13
## 1	Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)											0.025									0.025	0.064	0.025	0.025	0.025
Property Property	Aluminium (diss.filt)			50	50		50		50		50		50		50	50	50	50	50	50	50	50	50	106.7743716	50	50
Money 124 125 12			1	0.101	0.124		0.058		0.202				0.243		0.246	0.210	0.025	0.155	0.117	0.207	0.204	0.221	0.265	0.294	0.186	0.176
Secretary Trans. (C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.	Phenols, Total	7.7 (182) 46 (95th%ile) (182)																								
CCCC 1980 1	Speciated TPH	ug/l																								
CCCC 1980 1	Aliphatics	15000 /70																								
EC-CEC 19 (19 (19 (19 (19 (19 (19 (19 (19 (19				1				1				1								1	1	1	1			-
C-CCCC CCCCCCCCCCCCCCCCCCCCCCCCCCCCC	EC>C8-C10	300 (7)																								
COCKCT COCK																										
CCC CC CC CC CC CC CC CC CC CC CC CC C		300 (7)	_																							
Anomatica EC-SC-13 BC-15-C13 B	EC>C21-C35																									$\overline{}$
EC-C7-G1 980-77 EC-G1-																										
EC-C7-G1 980-77 EC-G1-	Aromatics FC CS-C7	10.77	_																							
EC-CG-CG-CG-CG-CG-CG-CG-CG-CG-CG-CG-CG-CG	EC>C7-C8	700 (7)																								$\overline{}$
ECC12-CIS 96(7) EC-16-CIS 96(7	EC>C8-C10																									
E-C16-C15 98.(7)																										
Description	EC>C16-C21	90 (7)																								$\overline{}$
Toleron	EC>C21-C35	90 (7)																								
Styleterane \$90 (8)	Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th/6/la (290) (1), 74 (AA) 95th/6/la (270) (2)																								
Solitor Soli		300 (8)																								$\overline{}$
Sort of detacted Memory	p/m-Xylene																									
Physrometic Hydrocolores Nothindriver (a) 2 (AA) (1 & 2) 30 (MAC £2)		500./8\																								
Note Note		μg/l																								
According (a)		2 (AA) (1 &2) 130 (MAC 1&2)																								
Recent (etc.)	Acenaphthylene (ag)	· ·	_																							
Arthrosere (at)	Fluorene (aq)	<u> </u>																								
Nusrathere (a) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)	Phenanthrene (aq)																									
Pymer (a)	Anthracene (aq)		_																							
Bens(c)	Pyrene (aq)																									
Berasit/Observations (as)	Benzo(a)anthracene (aq)	•																								
Beautic (State and the case)		0.017 (MAC) (182)	+	1	 		 	+ +			l	 								1	+	1	 			-
Blooms (see volgen) and the see of the see o		0.017 (MAC) (1&2)	1	1	1		1	1 1			l									1	1	1	1			\neg
Blooms (see volgen) and the see of the see o	Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))																								
	Indeno(1,2,3-cd)pyrene (aq)		+	1	+	 	+	+			 			 						1	+	1	 	 		
	Benzo(g.h.i)perviene (ag)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	+				1	1 1													-					$\overline{}$
INORGANICS mg/l	INORGANICS																									
Dissived Organs Carbon 93 45 107 45 77 119 9.5 5.5 12 51 5.9 8.4 8.3 10.3 12.9 8.1 gt 6-9(284) 7.5 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7		6 0 (204)						10.7		4.5				11.9		9.6	5.6		7.2 5.1				10.3	12.9	8.1 7.3	7.3
Alalinfy (Total) 55 87 57 88 66 55 61 101 52 63 37 31 63 56 44 56	Alkalinity (Total)																			37	31	63	56			57
	Chloride	250 (5)						16		20		17		16		18	26			27		17		14	20	21
Amoraical Mitroges 0.08 0.09 0.11 0.12 0.08 0.05 0.17 0.02 0.06 0.09 0.13 0.07 0.09 0.05 0.07 0.09 0.07 0.05 0.07 0.09 0.07 0.05 0.07 0.09 0.07 0.05 0.07 0.09 0.07 0.07 0.07 0.07 0.07 0.07			1											0.06										0.05	0.07	0.07
Nete: 9 0.05 0.08 0.09 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.0		50 (5)	+	1	 		 				l							-						0.008	1.15	1.3
Sulphote 250(5) 10.54 8.08 10.63 9.22 11.10 8.65 9.45 9.33 9.49 6.35 10.20 7.37 5.32 9.94 8.30 7.33 8.95	Sulphate	250 (5)		10.54	8.08	****	10.63	2.0			11.10	2.27	8.65		9.45		9.49							7.33	8.95	9.04
Subtide 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.006																								L I		
Oblicim 270 21.40 32.79 22.78 34.70 24.98 23.72 25.00 38.27 17.42 27.00 11.30 13.30 58.36 22.0 19.01 Potassium 4 1.54 1.54 2.22 1.56 2.48 2.25 2.25 2.25 2.25 1.56 2.89 7.24 1.54 2.54 2.43 1.77 2.56 2.89 7.24 1.54 2.54 2.43 1.77 2.56 2.89 7.24 1.54 2.54 2.44 1.77 2.56 2.89 7.24 1.54 2.54 2.24 1.77 2.56 2.89 7.24 1.54 2.54 2.24 2.48 1.77 2.56 2.89 7.24 1.54 2.54 2.24 2.78 2.24 2.25 2.25 2.25 2.26 2.88 2.27 2.68 2.25 2.26 2.24 2.48 2.77 2.24 2.25 2.25 2.25 2.25 2.26 2.25 </td <td></td> <td></td> <td>+</td> <td></td> <td></td> <td></td> <td></td> <td>+ +</td> <td></td> <td></td> <td></td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>13.30</td> <td></td> <td></td> <td></td> <td></td> <td>24.60</td>			+					+ +				 									13.30					24.60
Magnesium 4.56 3.98 6.03 4.30 6.42 4.71 4.08 4.41 6.53 3.08 4.60 2.95 2.46 4.57 3.69 3.20 3.96	Magnesium		1	4.56	3.98		6.03	1 1	4.30		6.42		4.71		4.08	4.41	6.53	3.08	4.60	2.95	2.46	4.57	3.69	3.20	3.96	4.05
Sodium 200(5) 12.89 10.80 13.07 10.91 13.60 11.06 10.72 11.60 16.82 8.78 12.46 15.90 10.00 11.90 9.68 9.47 11.24	Sodium	200(5)		12.89	10.80		13.07		10.91		13.60		11.06		10.72	11.60	16.82	8.78	12.46	15.90	10.00	11.90	9.68	9.47	11.24	11.52
Bodemical Oxygen Demand 15 10 10 10 10 10 15 10 10 10 10 10 10 10 10 10 10 10 10 10	Chemical Oxygen Demand		+	1	+		+	1.0		1.0	 	1.0		1.0			1.0			1.0	1.0	1.0		1.0	1.0	1.0 19
Conductivity 201 265 199 274 209 193 211 311 188 227 200 136 221 186 158 203	Conductivity		1	1	f -	201 265	t	199		274	l	209		193		211	311		188 227		136	221	186	158	203	206
Total Oxidesable Nitrogen 0.79 1.01 0.81 1.03 1.15 1.21 1.12 0.88 1.05 1.53 1.11 0.62 0.97 0.89 0.76 1.16	Total Oxidisable Nitrogen					0.79 1.01		0.81		1.03		1.15		1.21		1.12	0.88		1.05 1.53		0.62	0.97	0.89	0.76	1.16	1.31
Total Photoshorus 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125 0.125																			0.125 0.125							

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Substances) and Substances (Northern Ireland) 2015 Freshwater.
 The Grow-Directive (Priority Substances) (Pri

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-ECS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the bases of acutedractive.

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																									
HEAVY METALS	μg/l		11/01/2021	03/02/2021	09/03/2021	20/04/2021	21/04/2021	11/05/2021	23/06/2021	21/07/2021	05/08/2021	23/09/2021	20/10/2021	24/11/2021	08/12/2021	24/01/2022	22/02/2022	22/03/2022	20/07/2016	09/08/2016	27/09/2016	09/01/2017	11/01/2017	06/03/2017	18/07/2017	20/07/2017	15/08/2017
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		0.34	0.41	0.26		0.35	0.35	0.33	0.37	0.60	0.53	0.65	0.51	0.51	0.32	0.39	0.29				12.50		12.50	0.17		
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l		0.025	0.025	0.025		0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025				5.000		5.000	0.025		
Chromium (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94	0.125 1.294	0.260 1.716	0.125		0.125 1.100	0.125 1.370	0.125 0.818	0.125	0.290 2.529	0.125 1.210	0.364 2.673	0.125 1.566	0.285 2.353	0.125 1.180	0.125 1.828	0.125 1.071				12.500 10.000		12.500	0.125		0.125
Copper (diss.filt) Iron (diss.)	1 (AA) Dioavaliable (1) (2)	34.94	410	502	243		408	440	191	92	589	859	1068	1074	314	398	234	265				50		1160	50		$\overline{}$
Mercury (diss.filt)	0.07 MAC (182)		0.0025	0.0025	0.0025			0.0025	0.0025			0.0025	0.006827251	0.0025		0.0025		0.0025				0.0025		0.0025			$\overline{}$
Manganese (diss.filt)	123 (AA) (*********************************	276.92	69.0180815	49.77411735	86.29435147		60.7	38.58542251	95.74745248	135.3483959	32.84833166	54.41150155	42.3062017	42.78164051	32.71093773	77.99004995	40.02301697	65.69236908				84		570	59		
Molybdenum (diss.filt) Nickel (diss.filt)	70 (8) ? 4************************************	14.98	1 30	1.24	1.16		1.25	0.97	1.02	1.01	1 59	134	1.85	1.48	1.25	1.21	1.13	1.09				12.50		12.50	1.00		
Lead (diss.fit)	1.2(800 F000 3) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64		0.240707933				0.125038712			0.289448754		0.438838256		0.311115147		0.233387981	0.025				12.5		12.5	0.125		
Antimony (diss.filt)	5 (5)																										
Selenium (diss.filt) Zinc (diss.filt)	10(5)	10 37.15	0.10	0.10	0.10		0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10							0.44		0.10
Zinc (diss.filt) Iron (Total)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (100 ABC)	37.15	2.71	3.66	1.90		1.80	1.63	1.04	0.25	1.74	0.90	3.77	2.64	4.12	1.72	3.37	1.56				10.00	165	10.00 11700	1.18 50		
Manganese (Total)																							108	633	82		$\overline{}$
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)		0.13	0.26	0.13		0.13	0.13	0.13	0.13	0.29	0.13	0.36	0.13	0.28	0.13	0.13	0.13							0.25		
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.125	0.025	0.025		0.058	0.025	0.025	0.088	0.025	0.025	0.025	0.025	0.025	0.096	0.025	0.111							0.025		0.025
Aluminium (diss.filt) Vanadium (diss.filt)		_	50	50 0.245	50		50 0.097	50 0.176	0.058	50	50 0.267	50 0.177	160.2610212	161.3917764		50 0.103	50	50 0.097				50		50	50 0.025		-
Phenols	ug/l		0.153	0.243	0.083		0.097	0.176	0.058	0.025	0.287	0.177	U.350	0.198	0.345	0.103	0.236	0.097	_						0.023		
Phenois Total	7.7 (1&2) 46 (95th%ile) (1&2)																					8.90		1.25		1.25	
	ug/l																										
Aliphatics EC CS-C6	15000 (7)	+	+					-	1	1	 		+			 		 			 	75		25			10
FC>C6-C8	15000 (7) 15000 (7) 300 (7)	1	+				 	t	1				t	 		l					l	30		25 30			12.5
EC>C8-C10																						0.05		0.05			7.5
EC>C10-C12 EC>C12-C16	300 (7)	1																				3.5					11
EC>C12-C16 EC>C16-C21	300 (7)	_																				2.5		2.5			5 20
EC>C21-C35																						10		10			5
EC>C35-C44																						2.5		2.5			5
Aromatics FC CS-C7	10 (7)																					0.025		0.025			1
EC>C7-G8	700 (7)	_																				0.025		0.025			2.5
EC>C8-C10	300 (7)																					0.025		0.025			2.5
EC>C10-C12	90 (7)																					3.5					25 11 12
EC>C12-C16 EC>C16-C21	90 (7) 90 (7)																					3		3			12
EC>C16-C21 EC>C21-C35	90 (7)	_																				15		15 15			5
Renzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)																							- 13			0.50
Toluene Ethylberizene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)																										0.50 0.50
	300 (8)																										0.50
p/m-Xylene o-Xylene		_																									1.00 0.50
Sum of detected Xvlenes	500 (8)																										0.30
Polyaromatic Hydrocabons	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)																										
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)																										
Acenaphthylene (aq) Acenaphthene (aq)																											
Fluorene (aq)	-																										
Phenanthrene (aq)	0.1 (AA & MAC) (1 & 2)																										
Anthracene (aq) Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)																										
Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)	1	+				 	t	1				t	 		l					l	1		t			$\overline{}$
Benzo(a)anthracene (aq)	*																										
Chrysene (aq)		1																									-
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.00017 (AA) (18.2) MAC (0.27 (1) 0.027 (2))	+	1	1	1			-	1	1			1		1		1					1		1			-
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	1	+				l	t	1				t	l		l					l	1		t			$\overline{}$
Indeno(1,2,3-cd)pyrene (aq)																											
Dibenzo(a,h)anthracene (aq)	- 0.0082 (MAC)(1) & 0.00082 (MAC) (2)							<u> </u>											_								
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2) mg/l		1																								
Dissolved Organic Carbon			8.2			9.5		8.5	5.7			8.9	22.7	10	10.4		7.1	4.24	11	9.3	8.1	2.6		3.2	2.2		
pH	6 - 9 (2&4)		7.5	7.3	7.6	7.7		7.7	7.6	7.7	7.6	7.8	7.3	7.5	7.3	7.5	7.4	7.5	7.7	7.8	7.3			6.8	7.9		
Alkalinity (Total)	APA (F)	1	46	31	72	66		44	86	100	47	74	32	64	23	67	29	68	80	77	99	68		67	68		-
Chloride Ammoniacal Nitrogen	250 (5)	+	20	13	19	18		13	18 0.11	20 0.13	14 0.06	17 0.06	12	19	16	19	31	20	27 0.033	32 0.005	28 0.005	23	-	0.34	24 0.1		
Nitrite		+	0.01	0.009	0.009	0.005		0.006	0.006	0.011	0.017	0.005	0.02	0.006	0.0025	0.012	0.005	0.007	0.67	0.075	0.005	0.022		0.01	0.028		-
Nitrate	50 (5) 250 (5)		1.03	0.67	0.79	0.95		0.45	0.91	0.86	0.63	0.56	5.51	1.08	0.78	1.69	0.98	1.6	9.1	30	20	4.52		4.72	4.06		
Sulphate	250 (5)	1	7.69	5.30	10.35		7.26	5.84	10.09	11.31	8.47	9.55	7.62	7.56	4.46	10.50	7.30	10.25				13.70			18.10		-
Sulphide Calcium		+	20.44	13.73	29.47		20.36	17.31	32.43	36.70	15.59	28.13	15.02	15.22	9.26	29.03	16.02	28.34			 	32.20		35.60	36.20		
Potassium		1	20.44	13.73	29.47		20.36 1.51	1/31	2.15	36.70	15.59	28.13	2.19	2.24	9.26 2.19	29.03	2.73	28.34			l	32.20		33.00	36.20		-
Magnesium			3.54	2.30	4.98		3.59	3.29	5.97	6.69	3.10	5.27	2.71	2.71	1.72	5.09	3.26	4.86				3.99		5.52	4.37		
Sodium	200(5)	1	12.63	8.85	12.78		9.41	8.46	12.92	14.39	8.02	11.80	8.60	8.68	7.15	12.51	15.76	12.39				13.50		13.70	13.50		
Biochemical Oxygen Demand Chemical Oxygen Demand		+	1.0	2.4 25	1.5	1.0		1.5 26	1.5	2.9	2.5 51	2.3	1.5 69	1.5	1.5	1.5 15	1.5 21	1.5 25				-		-			
Chemical Oxygen Demand Conductivity		1	189	131	243	222		154	262	289	169	234	131	221	123	238	192	244				1		1	309		$\overline{}$
Total Oxidisable Nitrogen			1.04	0.68	0.8	0.95		0.46	0.92	0.87	0.65	0.56	5.52	1.09	0.78	1.7	0.98	1.61				4.54		4.73	4.09		
Total Phosphorus		1	0.125	0.125	0.125	0.125		0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125				1					

The Water Framework Directive (Priority Substances and Casoffication) Regulations (Northern Incland) 2015 Freshwater.
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 The Casoffication (Priority Substances and Casoffication) Regulations (Northern Incland) 2015 Freshwater.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EGS). Where the MAC EGS are marked as "not applicable", the AA-EGS values are considered protective against short-term pollution-peaks in continuous discharges since they are significantly lower than the values derived on the basic of acutebroicity.

Notes: 4 Compositable derived via the Metal Bioavailability Assessment Tool (M-BAT) developed by WDTTAL Look at receptor specific assessment using the M-BAT (and the Metal Bioavailability Assessment Tool (M-BAT) developed by WDTTAL Look at receptor specific assessment using the M-BAT (and the Metal Bioavailability Assessment Tool (M-BAT) developed by WDTTAL Look at receptor specific assessment using the M-BAT (and the Metal Bioavailability Assessment Tool (M-BAT) developed by WDTTAL Look at receptor specific assessment using the M-BAT tool winting Look Card Look on the SE (And Look of Look o

Sample Point TSV	8 09/01/2019 14/01/2019 07/02/2019 11/02/2019 27/03/2019
$\frac{A + conic (clos. H)}{A + conic (clos. H)} = \frac{50 (AA) (1) 25 (AA) (2)}{A + conic (clos. H)} = \frac{50 (AA) (1) 25 (AA) (2)}{A + conic (clos. H)} = \frac{50 (AA) (1) 25 (AA) (2)}{A + conic (clos. H)} = \frac{50 (AA) (1) 25 (AA) (2)}{A + conic (clos. H)} = \frac{50 (AA) (1) 25 (AA) (2)}{A + conic (clos. H)} = \frac{50 (AA) (1) 25 (AA) (2)}{A + conic (clos. H)} = \frac{50 (AA) (1) 25 (AA) (2)}{A + conic (clos. H)} = \frac{50 (AA) (1) 25 (AA) (2)}{A + conic (clos. H)} = \frac{50 (AA) (1) 25 (AA) (2)}{A + conic (clos. H)} = \frac{50 (AA) (1) 25 (AA) (2)}{A + conic (clos. H)} = \frac{50 (AA) (1) 25 (AA) (1) 25 (AA) (1)}{A + conic (clos. H)} = \frac{50 (AA) (1)}{A + conic (clos. H)} = \frac{50 (AA) (1)}{A + conic (clos. H)} = \frac{50 (AA) (1)}{A + conic (clos. H)} = \frac{50 (AA) (1)}{A + conic (clos. H)} = \frac{50 (AA) (1)}{A + conic (clos. H)} = \frac{50 (AA) (1)}{A + conic (clos. H)} = 50 (AA$	18 09/01/2019 14/01/2019 07/02/2019 11/02/2019 27/03/2019
Americ (des.(B) 50 AAA (1) 25 (AAA (2) 25	
Carbnium (dest 8)	0.16 0.28
	0.025 0.025
	0.125 0.250
Copper (doi:18) 1 (AA) bioxnubbles (***1011 (19) ***104 (2) 34.94 2.250 1.870 1.460 1.460 3.140 3.140 3.200 3.270 2.580 2.360 2.010 3.280 1.390 0.59	1.262 3.582
	20 20
Mercury (dis.181)	0.0025 0.0025 77 383424324
Molybdenum (diss.filt) 70 (8) ?	
Nickel (dss.fit) 4 (AA) (1), 8.5 (AA) (2), 34 (MAC) (182) 14.98 155 150 152 1.73 1.94 2.04 159 2.10 1.52 1.84 1.83 1.47 1.42 1.12 1.12 1.13 1.34	1.18 1.63
- 1.000 ((0.0.11); 1.200-10.11); 1.200-10.11	0.125 0.125
Artimory (66x18) 5 (5) 5 (5) 5 (6x1) 6 (7)	0.68 0.76
Zinc (diss.filt) 10.9 (AA) (1) +ABC bloavailable 5.8 (AA) (2)	1.41 3.21
Iron (Total) 220 442,6013091 217	
Mangaretee (70.8) Mangaretee (70.8) 92 50.47586911 97 Cromping III (60.5/8) 4.71643 (19.5981946 (22) 97 97 97 97 97 97 97 9	0.25
Oronium III (86381) 4.4(1) (A4) (1) 989788 (24) (25) (25) (27) (27) (28) (27) (27) (27) (27) (27) (27) (27) (27	0.25
Aluminium (des.fit) 50 50 50 50 50 50 50 50 50 50 50 50 50	50 50
Vanadium (diss.filt) 0.095 0.077 0.078 0.100 0.184 0.082 0.115 0.125 0.077 0.062 0.188 0.054 0.025 0.080	0.025 0.136
Phenols ug/I	
Phenois, Total 7.7 (14.2) 46 (988) 1981 22.50 22.5	
Alighatics	
EC-GC-GS 18000 (7) 125 125 125 125 125 125 125 125 125 125	
ES-GR-CLO 300(7) 75 75 75 75 75 75 75 75 75 75 75 75 75	
60-01-01 300(7) 11 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
E0-C16-C21	
EGCH-CB 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
Aronatics	
ECO'03 700(7) 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	
ES-CB-C10 300 (7) 25 25 25 25 25 25	
ESCH-C2 99(7) 111 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
ESUCIO 90(7) M 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
EO:21:05 99(7) 5 5 5 5 5	
Regizer 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 0.50 0.50 0.50	
Toluene 74 (AA) 95th Nule (380) (1), 74 (AA) 95th Nule (370) (2) 0.50 0.50	
Etyberaree 300 (8) 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	
0-Yylene 0.50 0.50 0.50 0.50	
Sum of detected Xylenes 500 (6)	
Physromatic Hydrocabous 19/1	
Naphtheter (at) 2 (AA) (1.8.2) 30 (MAC 18.2) 0.003 0.003 0.003 0.003 (Associative) 0.004 0	
Acesphithere (sq) - 0.001 0.001 0.001 0.001 0.001	
Fluorene (sq) - 0.001 0.001 0.001 0.001 0.001	
Presenthere (a) 0.002 0.	
Fluoranthere (sq) 0.0063 (AA) (1.8.2) 0.12 (MAC 1) 0.001 0.003	
Priese (ag) - 0,001 0,001 0,001 0,001	
Berazi (a)sertiracere (et) - 0.001 0.001 0.001 0.001 0.001 0.001	
Orysec (a) 0.001 0.001 0.001 0.001 Sexub/Disurstree (x) 0.017 (Mx) (182) 0.001 0.001 0.001	
Serial S	
CEUTION (JAMES CENTER (AU)	
Indeno(1,2,3-cd)pyrene (aq) - 0.001 0.001 0.001	
Dever(a,h)stritectere (a) 0.002	
Berus(p,l)perviene (ar)	
Disonleyd Drawnic Carbon 31 27 25 24 4 55 29 59 24 24 25 336 21 16 18	1.7 3.5 2.3
pi 6-9(284) 66 75 66 68 67 7 73 66 68 69 69 71 7 69 66	6.7 6.8 6.5
pr 0 2 (40) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	67 64 68
Clorick 250 (5) 25 23 23 24 22 22 22 23 24 22 19 22 24 24 24 25 27 25 25 27 25 25 25 25 25 25 25 25 25 25 25 25 25	23 27 23
Ammonical Mitogen 0.75 0.59 0.29 0.31 0.27 0.19 0.21 0.17 0.18 0.19 0.1 0.18 0.33 0.05 0.05 0.05 0.05 0.07 0.018 0.013 0.015 0	0.06 0.07 0.08 0.022 0.018 0.024
Notite 0.012 0.013 0.016 0.017 0.018 0.013 0.016 0.022 0.016 0.02 0.006 0.015 0.044 0.032	4.88 7.1 5.97
Nitrate 50 (5) 4.38 4.37 4.34 4.37 4.12 4.01 3.96 4.58 4.9 4.78 2.63 5.23 5.21 4.7	19.90 18.93
Rirate \$9.65 4.13 4.27 4.34 4.37 4.12 4.01 3.56 4.58 4.5 4.5 4.5 5.25 5.21 5.21 5.25 5.21 5.25 5.25 5.21 5.25	15.50
Notice 50 (5) 4.38 4.37 4.34 4.47 4.01 3.95 4.58 4.9 4.78 2.63 5.23 5.21 4.7	0.005
Winter 59 (5) 4.18 4.37 4.34 4.37 4.12 4.01 3.56 4.58 4.9 4.78 7.261 5.23 5.21 5.22 5.22 5.22 5.23 5.24 5.24 5.25 5.2	37.70 0.005 39.02
Mortel: Mort	37.70 39.02 3.51 4.51 5.27 4.99
Windle \$9 (5) 4.18 4.37 4.41 4.27 4.51 3.56 4.58 4.3 4.31 2.58 5.22 5.21 4.7	0.005 37.70 39.02 3.51 4.51 5.27 4.99 13.70 12.86
Nirale \$9.65 4.18 4.17 4.14 4.27 4.14 4.27 4.15	37.70 0.005 31.70 39.02 3.51 4.51 5.27 4.99 13.70 12.86 10 1.5 1.5
Note \$6 (5)	37.70 0.005 37.70 3302 3.51 4.51 5.27 4.99 13.70 1.286 10 1.5 1.5
Note \$6 (5)	37.70 0.005 31.70 39.02 3.51 4.51 5.27 4.49 13.70 12.86 12.86

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern related) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern related) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern related) 2015 Transitional waters.
 The Classification of Water (Priority Substances and Classification) Regulation (Northern Related) 2015 Transitional waters (Priority Substances) (Northern Related) (Northern Relate

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS) where the MAC-EQS are marked as "not applicable", the AR-EQS values are considered protective applicable in continuous discharges since they are significantly lower than the values derived on the basic of accretion for the part of the par

Note:

Note: - Collocus claims deviced us the Metal Biocountability Associament Tool (M BAT) developed by WTDTAL Look at receptor specific associament using the Mr.

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Note: - Tool (M BAT) developed by WTDTAL Look at receptor specific associament using the Mr.

Note: - Tool (M BAT) developed (M BAT)

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)			SW2																				
HEAVY METALS	μg/I		28/03/2019	11/04/2019	29/04/2019 21/05/2019	22/05/2019	19/06/2019	20/06/2019	04/07/2019	05/07/2019	07/08/2019	08/08/2019	10/09/2019	11/09/2019	15/10/2019	06/11/2019	06/01/2020	07/01/2020 22/01/2020	26/02/2020	18/03/2020	10/08/2020	07/09/2020	13/10/2020	10/11/2020 01	1/12/2020
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		0.16	0.16		0.19		0.19		0.19		0.23		0.26	0.22	0.21	0.18	0.19	0.28	0.24	0.23	0.26	0.29	0.22	0.21
Cadmium (diss.filt) Chromium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₂ >200 mg/l	_	0.025	0.025		0.025		0.025		0.025		0.025		0.025	0.025	0.025	0.025 0.250	0.025 0.125	0.025	0.025 0.125	0.025	0.025	0.051 0.125		0.053
Copper (diss.filt)	1 (AA) biografiable (see Note 1) (4) (see Note 4) (9).	34.94	1.300	0.798		0.610		1.205		0.500		1.089		2.944	2.160	1.870	1.517	6.204	2.743	1.799	1.893	2.430	3.300	1.886	1.732
Iron (diss.)	1000 (AA) (1&2)		20	20		20		20		20		51		20	20	45	20	20	41	20	20	20	20		20
Mercury (diss.filt) Manganese (diss.filt)	0.07 MAC (182) 123 (AA) (*********************************	276.92	0.0025 43.94443277	0.0025 80		0.0025 94.1477055		0.0025 59.06830019		0.0025 71		0.0025 89.44973363		0.0025 36.88464272	0.0025	0.0025 63.83462516	0.0025 49.17352011	0.0025 47.69727505		0.0025 55.4852916	0.0025			0.0025 52.47360785 48	
Molybdenum (diss.filt)			43.944432//	80		94.147/055		59.06830019		- /1				35.88464272	-//	b3.834b251b	49.1/352011	47.69727505	61.20970173	55.4852916	42.5914354	61.56399394	37.99301083	52.4/360/85 48	38210074
Nickel (diss.filt)	4 (MAC) (182) (AA) (1), 8.6 (AA) (2), 34 (MAC) (182)	14.98	1.14	1.18		1.15		1.12		1.10		1.17		1.33	1.51	1.48	1.28	1.35	1.55	1.47	1.23	1.41	1.73		1.39
Lead (diss.filt) Antimony (diss.filt)	1.2(600 5000 5) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64	0.125	0.125		0.125		0.125		0.125		0.125		0.125	0.125	0.125	0.125	0.125	0.125	0.025	0.025	0.025	0.077	0.025	0.025
Selenium (diss.filt)	5 (5) 10(5)	10	0.69	0.73		0.68		0.76		0.64		0.61		0.98	0.90	0.88	0.71	0.81	0.69	0.68	0.62	0.52	0.59	0.49	0.53
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (ABC (ABC (ABC (ABC (ABC (ABC (ABC (37.15	1.93	1.67		1.40		1.04		1.45		1.57		2.63	3.34	2.53	2.12	4.83	2.16	2.31	1.44	1.71	7.09		2.31
Iron (Total) Manganese (Total)																									
Chromium III (diss,fit)	4.7 (AA) (1) 95th%ile (32)	+	0.25	0.25		0.25	 	0.25		0.25		0.25		0.25	0.25	0.25	0.25		+	+	0.13	0.13	0.13	0.13	0.13
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.108	0.097		0.068		0.059		0.051		0.025		0.025	0.025	0.058	0.050				0.065	0.133	0.108	0.101	0.150
Aluminium (diss.filt) Vanadium (diss.filt)			50 0.060	50 0.025		50 0.025		50 0.025		50		50 0.066		50 0.108	50 0.145	102.2297108	50 0.059	50 0.058	50 0.128	50 0.105	50 0.068	50	50	50 0.067	50
Vanadium (diss.filt) Phenols	ug/l		0.060	0.025		0.025		0.025				U.066		0.108	U.145	0.068	U.U59	0.058	0.128	U.105	U.068	0.101	0.094	0.067	0.064
Phenois, Total	7.7 (1&2) 46 (95th%ile) (1&2)																								
Speciated TPH	ug/l																			/					
Aliphatics EC CS-C6	15000 (7)	1	1	-		-	1					-	-						1	+	1	1			
EC>C6-C8	15000 (7) 15000 (7)	+	1	!			 						+		!				+	+	+	1			
EC>C8-C10	300 (7)																								
EC>C10-C12 EC>C12-C16	300 (7)																								
BC>C16-C21	300 (7)																			+					
EC>C21-C35																				_					_
EC>C35-C44																									
Aromatics FC CS-C7	10 (7)																			+					
EC>C7-C8	700 (7)																			_					_
EC>C8-C10 FC>C10-C12	300 (7)																								
EC>C10-C12 EC>C12-C16	90 (7)																			+					
EC>C16-C21	90 (7)																			+					$\overline{}$
EC>C21-C35	90 (7)																								
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)																								
Ethylbenzene	300 (8)																			+					$\overline{}$
p/m-Xylene																									
o-Xylene Sum of detected Xylenes	500 (8)																								
Polyaromatic Hydrocabons	µg/l																			_					
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)																			1					
Acenaphthylene (aq)																									
Acenaphthene (aq) Fluorene (aq)																				+					
Phenanthrene (aq)	-																								
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)																								
Fluoranthene (aq) Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)																			+					
Benzo(a)anthracene (aq)	-																								
Chrysene (ag) Benzo(b)fluoranthene (ag)	0.017 (MAC) (18.2)	1 -	1 -	— —			1								1				1	4	_	1 -	1 1		
Benzo(k)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2)		1	 			 		l	1	1		+		 				+	+	 	+	1		-
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.017 (MAC) (182) 0.017 (MAC) (182) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))												i .							1		1			
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq)	-						1			1	1				1				1	4					
Benzo(q,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	+	1	-			+		l	 	 		+		 				1	+	+	+	1		-
INORGANICS	mg/I																								
Dissolved Organic Carbon	6 - 9 (2&4)				1.9 1.7		1.9		1.8	1	1.8		2.4		2.4 6.7	2.3		2 2	2.5	3.5	1.3	3.2 7.3	3.8 6.7	3.5 6.5	6.7
pH Alkalinity (Total)	o - 9 (2&4)	+	-	-	6.7 7.1		6.7 70		6.6		6.5		6.8 72	-	6.7 75	6.9 76		7.1 7	6.9	6.6	6.7	7.3	6.7	6.5 72	6.7 71
Chloride	250 (5)				23 22		23		22		21		21		22	22		22 22	22	23	23	22	24	27	26
Ammoniacal Nitrogen		1	1		0.02 0.04		0.05		0.06		0.15		0.09		0.14	0.16		0.17 0.15	0.16	0.19	0.09	0.13	0.09		0.14
Nitrite Nitrate	50/5)	+	1		0.013 0.015 5.18 5.12		0.012 5.38		0.013		0.05 6.2		0.008		0.007	0.012	 	0.012 0.01 5.09 5.29	0.006	0.011	0.029 4.52	0.019			0.019 5.54
Sulphate	50 (5) 250 (5)	+	19.28	20.90	3.16 5.12	19.76	5.38	19.35	5.19	19.00	0.2	19.50	0.59	18.74	19.40	19.77	17.24	5.09 5.29	17.06	5.18 18.36	4.52 18.29	17.58	18.36		18.10
Sulphide			0.005			0.005		0.005				0.005		0.005		0.005	0.01								
Calcium		1 -	38.58			36.32	1	37.81 3.58		37.50		37.20		39.17 4.47	40.60	39.71	32.90	39.72 4.03	38.28	37.75	37.70	37.02	40.78		39.76
Potassium Magnesium			3.66 5.18	3.35 5.43		3.01 5.36	 	3.58 5.29	l	3.43 5.52		3.48 5.14	+	4.47 5.15	4.16 5.49	4.32 5.45	3.16 4.54	4.03 5.42	4.29 4.90	4.52 5.13	4.21 5.11	4.50 4.94	4.90 5.25	4.32 5.34	4.14 5.26
Sodium	200(5)	1	13.79	14.00		13.65	1	13.94		13.90		13.45		13.71	14.30	13.99	11.80	14.12	12.80	13.43	13.49	12.70	13.12	13.81	13.53
Biochemical Oxygen Demand					1.5 1.0		1.0		1.0		3.3		1.0		1.5	1.0		1.0 1.0	1.0	1.0	1.0	2.1	1.0	1.0	1.0
Chemical Oxygen Demand		+	-	-	10 10 302 298		10 323		10 300		38 304		10 305	-	10 310	10 315		10 10 351 325	10 286	10 306	10 303	10 301	10 310	10 317	23 268
Conductivity Total Oxidisable Nitrogen		+	1	!	5.19 5.13		5.39		5.2		6.25		6.6		5.06	5.38		5.1 5.3	4.35	5.19	4.55	4.73	5.12	5.6	5.56
Total Phosphorus					0.125 0.125		0.125		0.125		0.125		0.125		0.125	0.125		0.125 0.125	0.125	0.125	0.125	0.125		0.125	0.125
	-																								

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Substances) and Substances (Northern Ireland) 2015 Freshwater.
 The Grow-Directive (Priority Substances) (Pri

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-ECS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the bases of acutedractive.

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																							
HEAVY METALS	μg/l		11/01/2021	03/02/2021	09/03/2021	20/04/2021 21/04/202	11/05/2021	23/06/2021	21/07/2021	05/08/2021	23/09/2021	20/10/2021	24/11/2021	08/12/2021	24/01/2022	22/02/2022	22/03/2022	20/07/2016	09/08/2016	27/09/2016	09/01/2017	11/01/2017	06/03/2017	18/07/2017 20/07/2017	7 15/08/2017
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		0.22	0.31	0.17	0.17	0.16	0.17	0.15	0.15	0.20	0.37	0.21	0.49	0.17	0.33	0.17				12.50		12.50	0.35	
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l			0.025		0.025		0.025	0.025		0.025	0.025	0.025		0.025	0.025	0.025				5.000		5.000	0.025	
Chromium (diss.fit)	50 (5)		0.125 1.429	0.125	0.125 1.099	0.125 0.904	0.125	0.125	0.125	0.125	0.125	0.125 3.957	0.125 1.722	0.125 4.569	0.125	0.125	0.125 1.102				12.500 10.000		12.500	0.125 0.500	0.125
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94	20	2.631	20	20	20	0.504	0.250	0.250	20	3.957	20	4.569 62	1.288 20	3.156	20				10.000		10.000	50	
Iron (diss.) Mercury (diss.filt)	0.07 MAC (182)	-		56 0.0025		0.0025	0.0025		0.0025	0.0025	0.0025	0.0025		0.0025	0.0025	0.0025	0.0025				0.0025		0.0025	0.0025	
Manganese (diss.filt)	123 (AA) (*********************************	276.92	47.7507737	46.35084505	48.55393932	49.259867		59.89238438			48.68855327	12.5	12.5	12.5	38.33249921		35.33111448				277		301	486	
	70 (8) 2																								
Nickel (diss.filt) Lead (diss.filt)	4(MAC) (1&2) 1.2(MAC) (1A) (1), 8.6 (AA) (2), 34 (MAC) (1&2) 1.2(MAC) (1A) (1), 1.3 (AA) (2), 14 (MAC) (1&2)	14.98 9.64	1.34	1.56	1.18	1.21	1.25	1.09	1.06	0.98	1.03	1.60	1.22	1.72	1.18	1.29	1.16				12.50		12.50	1.67	
Antimony (diss.filt)	1.2 (AA) (1), 1.3 (AA) (2), 14 (MAC) (162)	9.64	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.07265348	0.025	0.025	0.025				12.5		12.5	0.125	
Selenium (diss.filt)	10(5)	10	0.46	0.56	0.36	0.42	0.30	0.21	0.23	0.25	0.24	0.89	0.46	0.54	0.40	0.35	0.44							0.41	0.10
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (500 MOST 2)	37.15	2.21	2.33	2.42	1.64	1.38	1.20	2.12	2.73	2.44	2.12	2.65	3.33	2.83	2.78	1.15				10.00		10.00	4.69	
Iron (Total)																						894	697	402	
Manganese (Total)	4.7 (AA) (1) 95th%ile (32)																					320	356	575	
Chromium III (diss.filt) Chromium VI (diss.filt)	4.7 (AA) (1) 95th%ile (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)	1		0.13		0.13 0.091	0.13	0.13	0.13 0.162	0.13 0.115	0.13 0.071	0.13 0.081	0.13	0.13	0.13	0.13	0.13 0.129				-	-		0.25 0.025	0.025
Aluminium (diss.filt)	***************************************	1	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50				50	1	50	50	0.023
Vanadium (diss.filt)			0.059	0.114	0.052	0.025	0.025	0.025	0.025	0.025	0.025	0.150	0.079	0.212	0.059	0.164	0.056							0.025	
Phenois	ug/l																								
Phenois, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2)																							1.25	_
Aliphatics	-																								
EC CS-C6	15000 (7)																				25		25		10
EC>C6-C8 FC>C8-C10	15000 (7)																				30		30		10 12.5
EC>C8-C10 FC>C10-C12	300 (7)	1	1	1	-		+	1	_												0.05 3.5	1	0.05	-	7.5
EC>C12-C16	300 (7)						_														5.5		5		5
EC>C16-C21																					2.5		2.5		5
EC>C21-C35																					10		10		5
EC>C35-C44																					2.5		2.5		5
Aromatics FC CS-C7	10 (7)																				0.025		0.025		1
EC>C7-C8	700 (7)																				0.025		0.025		2.5
EC>C8-C10	300 (7)																				0.025				25
EC>C10-C12 EC>C12-C16	90 (7)																				3.5				5
EC>C16-C21	90 (7)																				15		15		
EC>C21-C35	90 (7)						_														15		15		5
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)																						-		0.50
Toluene	74 (AA) 95th%/le (380) (1), 74 (AA) 95th%/le (370) (2)																								0.50 0.50
Ethylbenzene n/m-Xvlene	300 (8)																								0.50
o-Xylene							_																		1.00 0.50
Sum of detected Xvlenes	500 (8)																								
Polyaromatic Hydrocabons	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)																								
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)																								
Acenaphthylene (aq) Acenaphthene (aq)																									
Fluorene (aq)																									
Phenanthrene (aq)	•																								
Anthracene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)	1	1	1	-		+	1													1	1		-	+
Fluoranthene (aq) Pyrene (aq)	0.0003 (AM) (1 & 2) 0.12 (MAC 1)	1	1	1			-	1					 												
Benzo(a)anthracene (aq)		1	1	1			1	1	1												1	1			
Chrysene (aq)		1	_	1				1																	
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (182) 0.017 (MAC) (182)	-	-	-	-			-	_																
Benzo(k)fluoranthene (aq) Benzo(a)pyrene (aq)	0.017 (MAC) (1&2) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	1	1	1			+	1	_				+								1	 			
Indeno(1,2,3-cd)pyrene (aq)	. , , , , , , , , , , , , , , , , , , ,																								
Dibenzo(a,h)anthracene (aq)			1																						
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2)																								
Dissolved Organic Carbon	mg/i		2.7	5.2	2.2	6.2	1.4	1.7			1.6	3.8	2.5	7.1	2.6	3.6	1.6	14	9.5	8.5	2.4		3	2.7	
pH	6 - 9 (2&4)		6.6	6.6	6.6	6.5	6.4	6.3	6.4	6.5	6.6	6.8	6.6	6.8	6.4	6.7	6.4	7.4	8.1	7.2			6.9	6.6	
Alkalinity (Total)			68	66	66	67	66	63	62	62	66	82	72	66	69	57	68	27	94	120	78		83	83	
Chloride	250 (5)	1	24	20 0.15	23	22	23 0.24	24	23	23	24	19	22	20 0.04	22	34 0.1	22	0.005	28 0.017	31	25 0.14	1	24	25	+
Ammoniacal Nitrogen Nitrite	+	1	0.15	0.15		0.17 0.006	0.24	0.15	0.12	0.1	0.05	0.02	0.08	0.04	0.12	0.1	0.06	0.005	0.017	0.005	0.14	 	0.25	0.15 0.036	
Nitrate	50 (5)	1	5.56	4.51	2.74	5.24	5.13	5.07	5.61	5.44	3.07	5.31	5.4	5.27	5.49	3.8	4.9	0.25	21	21	5.17	1	4.99	4.67	
Sulphate	50 (5) 250 (5)			15.99	18.45	14.88	19.08	19.48	19.08	14.86	19.26	21.75		15.86	19.67	14.84	18.78				15.60		21.80	22.10	
Sulphide							-																		
Calcium	+	1	38.35	35.88 4.10	36.80 3.46	28.57 2.71	36.55 3.11	36.20	35.50 3.02	28.22	36.50 3.18	42.85 5.61	43.23	36.13 5.84	39.51	33.72 5.41	36.87 3.38				33.80	-	40.20	42.30 4.15	
		-	5.83 5.34	4.10	3.46 5.16	4.06	5.43		3.02 5.35	4.37	3.18 5.50	5.61	5.71	5.84 4.33	5.80 5.49	5.41 4.56	3.38 5.06				4.59		6.50	4.15 5.46	_
Potassium Magnesium					13.02	10.20	12.95	13.39	13.58	10.60	13.72	13.27	13.42	11.58	13.61	17.30	12.63				14.70		14.30		
	200(5)		13.23	12.31	13.02	10.20																		15.10	
Magnesium Sodium Biochemical Oxygen Demand	200(5)		1.0	1.0	1.5	1.0	1.5	1.5	2.8	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5				24.70		14.30	15.10	
Magnesium Sodium Biochemical Oxygen Demand Chemical Oxygen Demand	200(5)		1.0 18	1.0 5	1.5 5	1.0 5	1.5 S	1.5 5	2.8 5	1.0 10	1.5 5	1.5 35	1.5 16	1.5 17	1.5 11	1.5 12	1.5 5				14.70		14.30		
Magnesium Sodium Biochemical Oxygen Demand Chemical Oxygen Demand Conductivity	200(5)		1.0 18 309	1.0 5 280	1.5 5 297	1.0 5 301	1.5 5 303	1.5 5 297	2.8 5 292	1.0 10 293	1.5 5 301	1.5 35 335	1.5 16 302	1.5 17 282	1.5 11 307	1.5 12 300	1.5 5 302				5.2		14.30	344	
Magnesium Sodium Biochemical Oxygen Demand Chemical Oxygen Demand	300(5)		1.0 18	1.0 5 280 4.52	1.5 5	1.0 5	1.5 S	1.5 5 297 5.1	2.8 5 292 5.64	1.0 10	1.5 5	1.5 35	1.5 16	1.5 17	1.5 11	1.5 12	1.5 5						5		

The Water Framework Directive (Priority Substances and Casoffication) Regulations (Northern Incland) 2015 Freshwater.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EGS). Where the MAC EGS are marked as "not applicable", the AA-EGS values are considered protective against short-term pollution-peaks in continuous discharges since they are significantly lower than the values derived on the basic of acutebroicity.

Notes: 4 Compositable derived via the Metal Bioavailability Assessment Tool (M-BAT) developed by WDTTAL Look at receptor specific assessment using the M-BAT (and the Metal Bioavailability Assessment Tool (M-BAT) developed by WDTTAL Look at receptor specific assessment using the M-BAT (and the Metal Bioavailability Assessment Tool (M-BAT) developed by WDTTAL Look at receptor specific assessment using the M-BAT (and the Metal Bioavailability Assessment Tool (M-BAT) developed by WDTTAL Look at receptor specific assessment using the M-BAT tool winting Look Card Look on the SE (And Look of Look o

Sample Point / Determinands	TSV MBAT																				SW3				
HEAVY METALS	μη/Ι		21/09/2017 26/06/2019	02/10/2019	04/10/2019	09/01/2019	14/01/2019	07/02/2019	11/02/2019	27/02/2019 29	9/02/2019	11/04/2019	20/04/2010	21/05/2019	22/05/2019 19/05/2019	20/05/2019	04/07/2019	05/07/2019	07/09/2019	00/00/2010	10/09/2019	11/09/2019	15/10/2019	06/11/2010	05/01/2020
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		31/00/1017 10/00/1010	0.25	0-4/10/1010	0.16	14,01,1013	07)0131013	0.25	27,03,2013	0.23	0.27	23/04/2013	11/03/1013	0.28	0.33	04)07)1013	0.30	07/00/2023	0.29	10)03)1013	0.25	0.32	0.23	0.19
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l			0.057		0.025			0.025		0.053	0.052			0.025	0.025		0.052		0.025		0.025	0.059	0.055	0.059
Chromium (diss.filt)	50 (5) 1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 34.		0.125	0.125		0.125 1.072			0.250 2.252		0.250	0.250			0.250 0.513	0.250		0.250		0.250 1.207		0.250	0.250	0.250	0.250
Copper (diss.fit) Iron (diss.)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 34. 1000 (AA) (1&2)	1.94		69		20			2.252		43	45			64	49		20		74		56	1.980	1.652	52
Mercury (diss.filt)	0.07 MAC (1&2)			0.0025		0.0025			0.0025		0.0025	0.0025			0.0025	0.0025		0.0025		0.0025			0.0025		
Manganese (diss.filt)	123 (AA) (^{sala nosa'} 1) 276	6.92		227		105			145.9884189	23	36.3663624	238			259.087927	315.8226994		296		235.3931587		143.5749823	243	136.9883159	122.2170805
Molybdenum (diss.filt) Nickel (diss.filt)	70 (8) ? 4 ^(MM-1/M-2) (AA) (1), 8.6 (AA) (2), 34 (MAC) (1&2) 14.			1.62		1.32			1.57		1.45	1.53			1.48	1.75		1.63		1.51	'	1.43	1.73	1.73	1.55
Nickei (diss.filt)	1.2(MAC) (1), 8.6 (AA) (2), 34 (MAC) (162) 14.	64		0.125		0.125			0.125		0.125	0.125			0.125	0.125		0.125		0.125		0.125			0.125
Antimony (diss.filt)	5 (5)																								
Selenium (diss.filt)	10(5) 1	LO	0.10	0.61		0.74			0.63		0.67	0.66			0.56	0.64		0.61		0.62		0.90	0.84	0.82	0.67
Zinc (diss.filt) Iron (Total)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (************************************	1.15		2.56		1.52			2.56		2.20	2.36			1.29	4.41		1.74		1.36		1.36	2.54	2.03	2.38
Manganese (Total)		_													 					+					-
Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)								0.25		0.25	0.25			0.25	0.25		0.25		0.25		0.25	0.25	0.25	0.25
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%le) (2)		0.025						0.025		0.025	0.025			0.025	0.025		0.025		0.025		0.025	0.025	0.025	0.025
Aluminium (diss.filt) Vanadium (diss.filt)		_		0.025		0.025			50 0.053		0.025	50 0.025			50 0.025	50 0.025		50		50 0.052		50	50 0.059	50	0.072
Phenois	ug/I			3.025					0.003		0.023	0.025			0.023	J.025				0.052		0.000	0.059	0.000	0.072
Phenols, Total	7.7 (1&2) 46 (95th%ile) (1&2)				22.50																				
Speciated TPH	ug/l																								
Aliphatics EC CS-C6	15000 (7)		10		10	1	-	1	1					 	+ + +	+	1	 	 	+		 			
EC>C6-C8	15000 (7)		12.5		12.5																				
EC>C8-C10	300 (7)		7.5		7.5																				
EC>C10-C12 EC>C12-C16	300 (7)		5		5															+					
EC>C12-C16 EC>C16-C21	300 (7)		5		5										 					+					
EC>C21-C35 EC>C35-C44			5		5															 					
			5		5																				
Aromatics FC CS-C7	10 (7)																								
EC>C7-C8	700 (Ž)		2.5		2.5										 					+					
EC>C8-C10	300 (7)		25		25 5															T					
EC>C10-C12 EC>C12-C16	90 (7)		5		5																				
EC>C12-C16 EC>C16-C21	90 (7) 90 (7)		5		5																				
EC>C21-C35	90 (7)		5		5										 					+					
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)		0.50																	1					
Toluene	74 (AA) 95th%ile (380) (1), 74 (AÁ) 95th%ile (370) (2)		0.50																						
Ethylbenzene p/m-Xylene	300 (8)	_	0.50 1.00																	+					
o-Xylene			0.50																	 					
Sum of detected Xylenes	500 (8)																								
Polyaromatic Hydrocabons	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)				0.003																				_
Naphthalene (aq) Acenaphthylene (aq)	2 (AA) (1 82) 130 (MAC 182)				0.003										 					-					
Acenaphthene (aq)					0.002																				
Fluorene (aq)					0.001															+					
Phenanthrene (aq) Anthracene (aq)	0.1 (AA & MAC) (1 & 2)	_			0.002															+					$\overline{}$
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)				0.004															 					
Pyrene (aq)					0.001																				
Benzo(a)anthracene (aq) Chrysene (aq)				1	0.001	1	-	1							 	+	1	1	-	-		1			
Benzo(b)fluoranthene (ag)	0.017 (MAC) (182)			1	0.001	1	!	1	+ +					!		+	1		1	+					
Benzo(k)fluoranthene (aq)	0.017 (MAC) (182) 0.017 (MAC) (182) 0.00017 (AA) (1 8 2) MAC (0.27 (1) 0.027 (2))				0.001																				
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	-			0.001															\perp					
Indeno(1,2,3-od)pyrene (aq) Dibenzo(a,h)anthracene (aq)					0.001	1	-	1	1					 	+ + +	+	1	 	 	+		 			
Benzo(g.h.i)pervlene (ag)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)			1	0.002	1	t	1	1					t	t t	+	1		t	+					
INORGANICS	mg/l																								
Dissolved Organic Carbon	6 - 9 (28.4)		2.2	1.8	1	1	2.7	2.5		6.5			6.7	1.6	76	-	6.6	-	1.3		6.7	-	2.3	2.4 6.5	
pH Alkalinity (Total)	0 - 3 (Zet4)	-	91	6.4 79	1	1	70	7.7	+ +	76			5.7 79	6.8 80	7.b	1	5.b 77	1	5.4 75	+	76	1	80	78	+
Chloride	250 (5)		25	24			24	2		24			25	23	24		23		22		21		23	22	
Ammoniacal Nitrogen	·		0.5	0.12			0.07	0.09 0.017		0.1 0.012			0.08 0.012	0.1 0.012	0.12 0.022		0.1 0.022		0.27		0.19 0.013		0.25 0.01	0.21 0.015	
Nitrite Mitrate	EQ.(E)		0.063		1	1	0.016		1 7		-	_				_				——					
Nitrate Sulphate	50 (5) 250 (5)		4.51	4.96 24.80	1	21.20	5.5	5.9	17.05	3	25.45	24.10	5.35	5.35	24.09	22.51	5.18	22.70	6.3	20.49	6.37	19.85	5.39 21.70	4.85 20.51	17.65
Sulphide							i e		0.005		0.005			i e	0.005	0.005			T .	0.005		0.005		0.005	0.01
Calcium				41.40		39.30			31.98		48.87	41.70			41.87	40.74		41.60		37.87		41.06	42.60	39.70	32.82
Potassium Magnesium				3.68 6.42	1	3.69 5.68	-	1	3.56 4.51		4.57 6.98	3.69 6.37			3.52 6.52	3.80 6.04	1	3.69 6.44	-	3.69 5.51		4.48 5.42		4.23 5.57	3.09
Sodium	200(S)			14.80	1	14.30	!	1	4.51 11.24		17.31	14.80			14.70	14.80	1	14.80	-	13.84		14.22	15.10	14.18	11.61
			1.5	3.0			1.0	1.5		3.5			1.5	1.5	1.0		1.0		1.0		1.5		1.5	1.0	
Chemical Oxygen Demand			10	10	1	1	10	10	\perp	11			10	10	10	1	10		20	$\perp =$	10		10	10	
Conductivity Total Oxidisable Nitrogen			356 4.57	340 4.98	1	1	335 5.52	307 5.92		328 3.01			333 5.36	335 5.36	345 5.29	+	329 5.2	1	316 6.33		312 6.38	1	312 5.4	319 4 96	
Total Oxidisable Nitrogen Total Phosphorus		-+	4.57 0.125	0.125	1	1	0.125	0.125	+	0.125			5.3b 0.125	5.3b 0.125	0.125	 	0.125		0.125	+	0.125		0.125		
TOTAL ETTOSPHOLOS			0.123		•	•							0.443		3.123	*			U.44.7		V-44-7		V-44-J	V-2-2	

The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern related) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern related) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern related) 2015 Transitional waters.
 The Cassification of Water (Priority Substances) Framework Directive) (Regulated and Water) (Priority Water Framework Directive) (Regulated Water) (Priority Water Framework Directive) (Regulated Water) (Priority Water Standard *) (Indicated Water) (Priority Water Standard *) (Indicated Water) (Priority Water Standard *) (Indicated Water) (Priority Water Standard *) (Indicated Water) (Priority Water Standard *) (Indicated Water) (Indicated Water) (Indicated Water) (Indicated Water Standard *) (Indicated Water) (Indicated Water Standard *) (Indicated Water Sta

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EQS), Where the MAC EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basis of acutedrostic.

Nets: COBiouvabile derived us the Metal Biouvabilability Associated Tool (M. MAT) developed by WET FAL. Look at receptor specific associated study the Metal Biouvabilability associated Tool (M. MAT) developed by WET FAL. Look at receptor specific associated study to the Metal Biouvabilability associated Tool (M. MAT) developed by WET FAL. Look at receptor specific associated study to the Metal Biouvabilability associated Tool (M. MAT) developed by WET FAL. Look at receptor specific associatement using the MAT Incol with pill, Cook and Look developed by WET FAL. Look at receptor specific associatement using the MAT Incol with 100 LOOK and Look developed by WET FAL. Look at receptor specific associatement using the MAT Incol with 100 LOOK and Look developed by WET FAL. Look at receptor specific associatement using the MAT Incol with 100 LOOK and Look developed by WET FAL. Look at receptor specific associatement using the MAT Incol with 100 LOOK and Look at receptor specific associated to look with 100 LOOK and Look at Incol with 100 LOOK at Incol with 100 LOOK at Incol with 100 LOOK at Incol with 100 LOOK and Look at Incol with 100 LOOK at Incol with 100 L

Sample Point /	TSV	MBAT PNEC																									
Determinands	134	(ug/I)																									
HEAVY METALS	μg/l		07/01/2020	22/01/2020	26/02/2020	18/03/2020	10/08/2020	07/09/2020	13/10/2020	10/11/2020	01/12/2020	11/01/2021	03/02/2021	09/03/2021	20/04/2021	21/04/2021 1	1/05/2021	23/06/2021	21/07/2021	05/08/2021	23/09/2021	20/10/2021	24/11/2021	08/12/2021	24/01/2022	22/02/2022	22/03/2022
Arsenic (diss.filt) Cadmium (diss.filt)	50 (AA) (1) 25 (AA (2) 0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l	_		0.26	0.29	0.27	0.22	0.24	0.48	0.22	0.22	0.28	0.31	0.24			0.25	0.18	0.23	0.17	0.19	0.37	0.11	0.43	0.17	0.32	0.18 0.025
Chromium (diss.filt)	50 (5)			0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125		0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) [see Note 4) (2) 1000 (AA) (1&2)	34.94		1.028	3.956	1.530	1.788	1.879	4.170	1.654	1.698	1.428	2.398	0.837		0.879	0.608	0.514	0.250	0.250	0.585	3.935	0.250	4.446	1.239	3.248	1.492
Iron (diss.) Mercury (diss.fit)	0.07 MAC (18.2)		+	136 0.0025	40 0.0025	75 0.0025	0.0025	20 0.0025	132	20 0.0025	0.0025	0.0025	0.0025	20 0.0025	-	0.0025	92 0.0025	0.0025	0.0025	0.0025	20 0.0025	20 0.0025	0.0025	49 0.0025	20 0.0025	0.0101	20 0.0025
Manganese (diss.filt)		276.92		263.5924053	76.54032613	166.5597275	79.74532556			104.9263297			122.0081136		9			167.2304379	213.4792258	63.09954994			12.5		59.36610047	45.20729463	56.32909589
Molybdenum (diss.filt) Nickel (diss.filt)	70 (8) ? 4************************************	14.98		1.50	1.56	1.63	1.40	1.52	2.17	1.56	1.57	1.71	1.74	1.42		1.41	1.62	1.30	1.45	1.03	1.09	1.83	0.88	1.96	1.26	1.25	1.45
Lead (diss.filt)	1.2(MAČ) (1AA) (1), 1.3 (AA) (2), 14 (MAČ) (1&2)	9.64		0.125	0.125	0.025	0.091150081	0.025	0.025	0.025	0.025	0.025	0.025	0.025			0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.052930169	0.025	0.025	0.025
Antimony (diss.filt) Selenium (diss.filt)	5 (5) 10(5)	10		0.72	0.68	0.65	0.45	0.39	0.28	0.41	0.45	0.39	0.48	0.26		0.37	0.21	0.23	0.10	0.22	0.24	0.80	0.10	0.63	0.44	0.31	0.39
Zinc (diss.fit)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (100 ADD 2)	37.15		1.32	3.07	2.28	2.18	5.54	2.60	2.44	2.71	2.72	2.46	1.74		1.58	1.81	1.12	2.22	1.21	1.78	3.15	3.64	5.27	1.62	7.77	7.88
Iron (Total)																											
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)						0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13		0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)						0.025	0.103	0.025	0.093	0.114	0.125	0.066	0.071		0.071	0.025	0.025	0.084	0.055	0.058	0.052	0.025	0.051	0.101	0.131	0.110
Aluminium (diss.filt) Vanadium (diss.filt)			-	0.025	50 0.131	0.088	50 0.025	50 0.072	50	50 0.054	50	50 0.025	50 0.089	50 0.025		50 0.025	50 0.025	50 0.025	50 0.025	50 0.025	50 0.025	50 0.133	50 0.025	50 0.188	50 0.025	50 0.167	50 0.053
Phenois	ug/l			0.02.3	0.232	0.000	0.023	0.072	0.100	0.054	0.033	0.02.3	0.003	0.02.3				5.02.5	0.023	0.023	0.02.3	0.133	0.013	0.400	0.04.5	0.207	0.033
Phenols, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2)																										
Aliphatics	-																										
EC C5-C6	15000 (7)																										
EC>C6-C8 FC>C8-C10	15000 (7) 200 (7)																-										
EC>C10-C12	300 (7)																										
EC>C12-C16 EC>C16-C21	300 (7)																										
EC>C21-C35		_	+																								
EC>C35-C44																											
Aromatics EC CS-C7	10 (7)		+																								
EC>C7-C8	700 (7)																										
EC>C8-C10 EC>C10-C12	300 (7)		-																								
EC>C12-C16	90 (7)																										
EC>C16-C21 EC>C21-C35	90 (7)																										
Benzene	90 (7) 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)	_	+																								
Toluene	74 (AA) 95th/fille (380) (1), 74 (AA) 95th/fille (370) (2)																										
Ethylbenzene p/m-Xylene	300 (8)		+												-												
o-Xylene																											
Sum of detected Xylenes Polyaromatic Hydrocabons	500 (8) µg/l																										
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)																										
Acenaphthylene (aq) Acenaphthene (aq)																											
Fluorene (aq)	:																										
Phenanthrene (aq)	0.1 (AA & MAC) (1 & 2)																										
Anthracene (aq) Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)																-										
Pyrene (aq)																											
Benzo(a)anthracene (aq) Chrysene (aq)	<u> </u>		1						-						-												
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)																										
Benzo(k)fluoranthene (aq)	0.017 (MAC) (182) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))		1							1					-												
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.00017 (MA) (1 & 2) PINC (0.27 (1) 0.027 (2))	+	1						+	1												†	†				
Dibenzo(a,h)anthracene (aq)	- 0.0082 (MAC)(1) & 0.00082 (MAC) (2)																										
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2) mg/l					_	_						_													_	
Dissolved Organic Carbon			1.8 7.6	2 6.7	2.9	2.2	1.3	3.1	6.2	2.5 6.5	2.4	3 7	4.9	2.9	4.1		1.7	1.7			1.9	5 6.7	1.7	6	2.2	4.3 6.7	2.26
pH Alkalinity (Total)	6 - 9 (2&4)		7.6	6.7 81	6.9	6.5 74	6.9	6.8	6.9	6.5 75	6.5	7 72	6.5	6.5	6.5 69		6.9	6.3	6.4	6.6 67	7.1	6.7 en	7 83	6.8	6.5	6.7	6.4 70
Chloride	250 (5)		23	23	22	24	23	23	24	27	28	24	21	22	22		24	23	23	22	23	20	24	20	23	37	22 0.02
Ammoniacal Nitrogen Nitrite			0.23 0.014	0.19	0.24	0.27 0.011	0.08	0.09	0.35	0.13	0.14	0.17	0.17	0.09	0.19		0.24	0.17	0.15 0.028	0.1	0.05	0.05 0.032	0.04	0.1 0.014	0.09	0.14	0.02
Nitrate Nitrate	50 (5)	+	5.09	5.37	4.3	5.13	4.54	4.9	6.38	5.6	5.63	5.63	4.4	3.66	5.13		5.19	4.92	5.31	5.1	4.2	5.12	4.98	5.85	5.14	3.46	4.98
Sulphate	50 (5) 250 (5)			23.70	17.52	21.67	18.79	18.84	19.88	19.91	19.75	20.12	17.91	20.77		15.00	22.68	19.72	22.66	14.81	19.35	23.18	23.19	19.43	19.94	15.30	18.92
Sulphide Calgium		_	1	43.07	36.69	40.53	38.71	38 51	46.99	41.55	42.78	39.83	37 30	38.61	 	29.10	39.80	37 44	38 7N	28.73	37 17	42.33	42.94	41.84	40 14	37.36	37.12
Potassium				3.94	4.12	4.49	4.20	4.35	6.33	4.36	4.37	3.89	4.13	3.66		2.75	3.40	3.12	3.52	2.50	3.46	5.58	5.67	5.85	3.86	5.36	3.53
Magnesium Sodium	200(5)	_		6.49 15.05	4.72 12.23	5.97 14.28	5.38 13.78	5.28 13.12	7.05 14.17	5.69 14.12	5.63 14.27	5.74 13.59	5.09 12.58	5.63 13.60	\vdash	4.13 10.40	6.17 13.69	5.55 13.69	5.88 14.24	4.33 10.42	5.53 13.84	5.25 13.69	5.35 13.87	5.01 12.33	5.61 13.75	4.60 18.79	5.08 12.80
Biochemical Oxygen Demand	200(5)	_	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	47.47	1.0	1.0	15.60	1.0	20.40	1.5	1.5	2.8	2.5	4.3	1.5	15	1.5	1.5	1.5	3.8
Chemical Oxygen Demand			10	10	10	10	10	10	10	10	5	5	5	5	5		5	5	5	5	24	37	16	14	18	16	5
Conductivity Total Oxidisable Nitrogen		+	334 5.1	339 5.38	289 4.31	319 5.14	313 4.58	305 4.93	362 6.47	321 5.63	320 5.67	323 5.66	290 4.42	314 3.67	304 5.14		333 5.2	301 4.95	311 5.34	291 5.13	319 4.23	328 5.15	335 4.98	307 5.86	308 5.17	300 3.47	304 4.99
Total Phosphorus			0.125	0.125	0.125	0.125	0.125			0.125				0.125	0.125					0.125	0.125		0.125		0.125	0.125	0.57
									_																		

The Water Framework Directive Priority Substances and Classification (Regulations (Riorthen Include))
 The Water Framework Directive (Priority Substances and Classification) Regulations (Riorthen Include) 2055 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Riorthen Include) 2055 Transitional values (Water Framework Directive) (Include Include Water) Directive) (Include Water) (Include

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of acutedocity.

Note:

Note: 1-Collocoval abile derived via the Metal Biovariability Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) (

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																						SW4	
HEAVY METALS	ا/ور		09/08/2016	26/06/2018	03/10/2018	09/01/2019	14/01/2019	07/02/2019	11/02/2019	27/03/2019	28/03/2019	11/04/2019	29/04/2019 21/05/	019 22/05/2019	19/06/2019	20/05/2019	04/07/2019 05/07/2019	07/08/2019	08/08/2019	10/09/2019 1:	1/09/2019	15/10/2019	06/11/2019	06/01/2020 0	7/01/2020
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)					0.23			0.25		0.26	0.27		0.22		0.31	0.29		0.49		0.42	0.42	0.36	0.27	
Cadmium (diss.filt) Chromium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		-	-		0.025			0.025		0.025 0.250	0.025 0.250		0.025 0.250	-	0.025 0.250	0.025 0.250	+	0.025 0.250		0.025	0.025 0.250	0.025 0.250	0.025 0.250	-
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (1&2)	34.94				1.455			2.156		1.761	1.520		0.821		2.718	1.640		1.954		2.384	2.540	2.451	1.837	-
Iron (diss.)	1000 (AA) (182) 0.07 MAC (182)					20			20		20	20		20		20	20		80		126	136	176	109	
Mercury (diss.filt) Manganese (diss.filt)	0.07 MAC (182) 123 (AA) (180 TOUR 1)	276.92				0.0025 66			0.0025 134.1375431		0.0025 52.17728313	0.0025		0.0025		0.0025	0.0025 180		0.0025 225.6522222		0.0025		0.0025 249.0195373		+
Molybdenum (diss.filt)	70 (8) 2																								-
Nickel (diss.filt)	4 ^(NM NOM 3) (AA) (1), 8.6 (AA) (2), 34 (MAC) (182) 1.2 ^(MA NOM 3) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	14.98 9.64				1.47			1.44		1.35	1.30		1.18		1.39	1.31		1.66		1.95			1.78	=
Lead (diss.filt) Antimony (diss.filt)	1.2*******(AA) (1), 1.3 (AA) (2), 14 (MAC) (162)	9.64				0.125			0.125		0.125	0.125		0.125	_	0.125	0.125		0.125		0.125	0.125	0.125	0.125	-
	10(5)	10 37.15				0.55			0.74		0.60	0.60		0.47		0.58	0.55		0.50		0.77	0.78	0.69	0.64	-
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (100 ABC)	37.15				2.28			2.25		3.18	2.22		2.08		6.11	2.75		2.44		2.50	3.71	2.79	2.62	
Iron (Total) Manganese (Total)			-	-											-			+	-						
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)								0.25		0.25	0.25		0.25		0.25	0.25		0.25		0.25	0.25	0.25	0.25	
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)								0.055		0.025	0.025		0.025		0.025	0.025		0.025		0.025	0.025	0.025	0.025	
Aluminium (diss.filt) Vanadium (diss.filt)		+	1	-		0.057			50 0.061	l	50 0.089	50 0.061		50 0.025		0.060	50	+	50 0.148	-	50 0.138	50 0.176	50 0.097	0.075	-
Phenols	ug/l																								
Phenols, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2)																								
Aliphatics EC CS-C6	ug/I																								-
EC CS-06	15000 (7)																								
EC>C6-C8 EC>C8-C10	15000 (7) 300 (7)																								
EC>C8-C10 EC>C10-C12	300 (7)	1	1	1					-	l		 		_	+	+		+	1	+					-
EC>C12-C16	300 (7)																								
EC>C16-C21 FC>C21-C35																									
EC>C35-C44			-	-											-			+	-						+
Aromatics FC CS-C7																									
EC CS-C7 EC>C7-C8	10 (7) 700 (7)																								
EC>C8-C10	300 (7)																								-
FC>C10-C12	90 (7)																								
EC>C12-C16 EC>C16-C21	90 (7) 90 (7)																								
EC>C21-C35	90 (7)																								-
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)																								
Toluene Ethylbenzene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2) 300 (8)																	-							
p/m-Xvlene	300 (0)	_												_				_	-						-
o-Xylene																									
Sum of detected Xylenes Polyaromatic Hydrocabons	500 (8)																								
Naphthalene (aq)	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)																								$\overline{}$
Acenaphthylene (aq)																									
Acenaphthene (aq) Fluorene (aq)																									-
Phenanthrene (aq)				1														1							
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)																								
Fluoranthene (aq) Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)	+	1	1										_	-	 		+	+						
Benzo(a)anthracene (aq)	-	+		1 1										_		+		+	1	1	-+		-	_	
Chrysene (aq)	•																								
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2)	+	1	-						 	 			_	-	+		+	+	-					
	0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.0017 (AA) (18.2) MAC (0.27 (1) 0.027 (2))	+		1 1										_		+		+	1	1	-+		-	_	
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)																									=
Dibenzo(a,h)anthracene (aq) Benzo(g,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	+	1	1										_	-	 		+	+						
INORGANICS	0:0082 (MAC)(1) & 0:00082 (MAC) (2)					_																			
Dissolved Organic Carbon			12	5.4	2.4		2.9	2.6		3.1			3.1 3.3		3.8		2.8	2.5		4.4		7.1	4.2		3
pH Alkalinity (Total)	6 - 9 (2&4)	+	7.8 95	7.8 84	6.6 88		6.9 96	6.9 73		6.9 94	 		6.9 6.8 95 85		7.4	+	6.7	6.8	+	7.3		7 109	6.9 105		7.6 104
Chloride	250 (5)	1	28	19	24		96 24	73	t	25	l		22 22		24	1	103 24	22	1	102 23	-+	24	22	_	23
Ammoniacal Nitrogen			0.005	0.02	0.07		0.02	0.05		0.02			0.02 0.0		0.07		0.13	0.18		0.21		0.37	0.22		23 0.19 0.048
Nitrite Nitrate	50 (5)	+	0.18 22	0.008	0.043 4.3		0.02 4.81	0.019 6.85		0.033 7.43			0.013 0.01 3.76 3.6		0.038	 	0.062 3.55	0.06 4.41	+	0.157 7.17		0.175 5.26	0.032 5.39		5.05
Sulphate	50 (5) 250 (5)	1	- 22	0.92	4.3	27.30	4.01	0.63	22.83	7.43	24.39	27.10	5./0 5.6	23.15	4.00	24.52	3.55	7.71	23.40	7.27	21.90	22.30	22.79	19.46	3.03
Sulphide									0.005		0.005			0.005		0.005			0.005		0.005		0.005	0.01	
Calcium		+	1	1		45.20 4.45			44.38 4.76		48.11 4.54	44.90 4.33		39.78 4.24	-	46.95 4.37	46.70 4.79	+	43.05 5.11		49.38	51.60 6.83	48.37	39.94 3.81	
Potassium Magnesium		1	1	1 - 1		8.10			6.23	l	8.04	8.12		7.58	1	8.31	8.96	+	7.74		8.02	8.29	8.04	6.88	
Sodium	200(5)					14.90			14.91		15.46	15.00		14.03		15.09	15.50		14.19		15.47	16.20		12.47	
Biochemical Oxygen Demand		1	1 -	1.5 10	3.2	_	1.0 10	1.5	— —	1.5			2.9 1.5 10 10		2.4	1 -	3.4 39	1.0 16	1	1.0	T	6.8 10	1.0		1.0
Chemical Oxygen Demand Conductivity	_	+	 	257	10 350		382	10 342	†	408	-		354 32		379	1	364	350		378		392	371		10 385 5.1
Total Oxidisable Nitrogen				0.93	4.34		4.83	6.87		7.46			3.77 3.6		4.89		3.61	4.47		7.33		5.43	5.42		5.1
Total Phosphorus		1	1	0.125	0.125		0.125	0.125		0.125		1	0.125 0.12		0.125	1	0.125	0.125	1	0.125		0.125	0.125		0.125

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Instand) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Instand) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Instand) 2015 Transitional waters.
 The Commoditive Directive (Northern Instand) Commoditive (Priority Substand) (Northern Instand) 2015 Transitional waters (Northern Instand) (No

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered portective against short eem pollution peaks in continuous discharges since they are significantly lower than the values defined on the based ancatestory.

Note: CODIcional stable derived via the Metall Biovariability Assessment Tool (M-BAT) developed by WTDTAL Look at recorptor specific assessment using the M-BAT (Seveloped by WTDTAL Look at recorptor specific assessment using the M-BAT (Seveloped by WTDTAL Look at recorptor specific assessment using the M-BAT (Seveloped by WTDTAL Look at recorptor specific assessment using the M-BAT tool with place Code Calls developed by WTDTAL Code at recorptor specific assessment using the M-BAT tool with place Cancel Look before the Code Cancel Canc

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																								
HEAVY METALS	ا/ <u>و</u> ير		22/04/2020	20/02/2020	40/03/2020	07/00/2020	12/10/2020	10/11/2020	01/12/2020	44 (04 (000)	02/02/2024	00/00/2004	20/04/2024	21 /01/2021	44/05/2024	22/05/2021	21/02/2021	05 (00 (2021	22/00/2021	20/10/2021	24/11/2021	00/12/2021	24 (04 (2022	22/02/2022	22/02/2022	20/07/2016 09/08/2016
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		0.30	0.54	0.80	0.43	0.27	0.33	0.30	0.29	0.52	0.60	20/04/2021	0.31	0.32	0.26	0.23	0.27	0.20	0.91	0.25	0.51	0.26	0.35	0.25	20/07/2016 09/08/2016
Cadmium (diss.filt) Chromium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		0.025	0.025 0.125	0.025	0.025	0.025	0.025	0.025	0.025 0.125	0.025	0.025 0.125		0.025	0.025	0.025	0.025	0.025	0.025 0.125	0.025	0.025	0.025 0.125	0.025	0.025 0.125	0.025	
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (ΔΔ) (18.2)	34.94	1.998	3.273	5.078	2.746	2.810	2.733	2.582	2.219	4.074	0.978		1.577	1.262	0.718	0.250	0.705	0.123	5.966	1.787	3.935	1.695	2.463	1.512	
Iron (diss.) Mercury (diss.filt)	1000 (AA) (182) 0.07 MAC (182)		197	107	178	155	20	106	144	221	214	1912		102	66	20	20	41	20	471	425	97	75	162	67	
Mercury (diss.filt) Manganese (diss.filt)	0.07 MAC (182) 123 (AA) (^{MR TOW} 1)	276.92	0.0025	0.0025 71.12176305	0.0025	0.0025	0.0025	0.0025 171.3799092	0.0025	0.0025 170.789453	0.0025 83.63131655	0.0025 1130.50878		0.0025 202.2320967	0.0025	0.0025 69.29900827	0.0025 26.56350837	0.0025	0.0025	0.0025	0.0025		0.0025	0.0025	0.0025 198.3387363	
Molybdenum (diss.fit) Nirkel (diss.fit)		14.98																								
Nickel (diss.filt) Lead (diss.filt)	4*************************************	14.98 9.64	0.125	1.75 0.125	2.26 0.103	1.75 0.025	0.025	1.86 0.025	1.84 0.025	1.79 0.025	1.82 0.065242616	2.61 0.060465932		1.59 0.025	1.49 0.025	0.95 0.025	0.61	0.74 0.025	0.78 0.025	2.65 0.091443459	1.39 0.025	1.56 0.062094935	1.55 0.025	1.40 0.061521929	1.41 0.025	
Antimony (diss.filt)	5 (5)																									
Selenium (diss.fit) Zinc (diss.fit)	10(5) 10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (MA (2) +ABC (10 37.15	0.73 2.03	0.52 4.75	0.60 7.02	0.22 4.25	0.45 2.47	0.28 3.15	0.25 2.90	0.27 2.68	0.30 3.10	0.22 3.52		0.28 2.32	0.10 2.14	0.10 1.09	0.10	0.10	0.10 1.96	0.44 3.71	0.25 2.96	0.45 3.25	0.10 3.17	0.31 3.86	0.23 3.39	
Iron (Total)			2.03	4.25	7.02	4.23	2.47	3.13	230	2.00	3.10	3.34		1.74	2.27	100	0.73	0.03	1.50	3.71	2.50	3.23	3.17	3.00	3.33	
Manganese (Total) Chromium III (diss.fit)	4.7 (AA) (1) 95th%ile (32)					0.13	0.13	0.13	0.13	0.13	0.13	0.13		0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)					0.025	0.075	0.025	0.025	0.125	0.025	0.025		0.059	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.063	0.025	
Aluminium (diss.filt) Vanadium (diss.filt)	+	+	50 0.105	50 0.323	50 0.371	50 0.129	50	50 0.095	0.086	50 0.095	50 0.277	50 0.025		50 0.061	50	50 0.025	50 0.025	50 0.025	50 0.025	50 0.272	50 0.069	50	50 0.076	50 0.145	50 0.057	
Phenols	ug/l		0.203	0.323	0.371	0.425	0.001	0.033	0.000	0.055	0.277	0.023		0.001	0.023	0.02.5	0.02.5	0.023	0.023	V.E./ E	0.003	0.207	0.073	0.243	5.0.51	
Phenois, Total Speciated TPH Aliphatics	7.7 (1&2) 46 (95th%ile) (1&2) ug/l																									
Aliphatics																										
EC CS-C6 EC>C6-C8	15000 (7) 15000 (7)	1		1		1			1									_		1			1	1	+	
EC>C8-C10	300 (7)	1 1		1		1			1														1	1	t	
EC>C10-C12 EC>C12-C16	300 (7) 300 (7)																									
EC>C16-C21	300 (7)																						1			
EC>C21-C35 EC>C35-C44																										
Aromatics FC CS-C7																							1			
EC CS-C7 EC>C7-C8	10 (7) 700 (7)																									
EC>C8-C10	300 (7)	_		-	-	-	-			-										-			-		-	
EC>C10-C12 EC>C12-C16	90 (7)																									
EC>C16-C21	90 (7)	_		-	-	-	-			-										-			-		-	
EC>C21-C35	90 (7)																									
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)			-	-	ł	-			1				l						1			+	+		
Ethylbenzene	300 (8)																									
p/m-Xylene o-Xylene		_		-	-	-	-			-										-			-		-	
Sum of detected Xvlenes	500 (8)																									
Polyaromatic Hydrocabons Naphthalene (aq)	μg/l 2 (AA) (1 &2) 130 (MAC 182)																									
Acenaphthylene (aq)																										
Acenaphthene (aq) Fluorene (aq)	:			-	-	ł	-			1				l						1			+	+		
Phenanthrene (aq)	-																									
Anthracene (aq) Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)	+ +		-	-	-	-		 	-				-						+	-	-	+	1	+	
Pyrene (aq)	-																									
Benzo(a)anthracene (aq) Chrysene (aq)	-	1		1	 	1	 		-	1				+						1	 	 	-	+	+	
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2)																									
Benzo(k)fluoranthene (aq) Benzo(a)pyrene (aq)	0.017 (MAC) (1&2) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	1		1	 	1	 		-	1				+						1	 		-	+	+	
Indeno(1,2,3-cd)pyrene (aq)	(-)																									
Dibenzo(a,h)anthracene (aq) Benzo(g,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	1		-		-			-	-										1	-	-	1	+	++	
INORGANICS	mg/l																									
Dissolved Organic Carbon pH	6 - 9 (2&4)	1 1	3.5 7.3	5.5 7.3	12.2 7.1	4.8 7.1	4.2 6.7	4.3 6.7	3.6 6.8	4.5 6.8	9.3 6.9	4.6 7.2	5.9 6.9		3.2 7.2	2.4 6.8	7	7	2.4 6.9	13.1	3.9 6.8	7 6.8	3.6 6.8	4.2 6.8	3.07 6.7	15 7.9 7.7 7.7
Alkalinity (Total)			103	69	87	92	78	95	96	97	70	102	103		100	88	83	71	90	87	96	68	95	63	97	98 97
Chloride Ammoniacal Nitrogen	250 (5)	1 1	23 0.18	23 0.52	27 0.58	0.06	23 0.1	0.07	0.08	24 0.13	16 0.18	23 0.56	23 0.16		23 0.17	23 0.07	0.05	19 0.02	0.07	0.09	0.02	20 0.1	0.12	28 0.17	24 0.08	30 28 0.027 0.005
Nitrite			0.034	0.048	0.031	0.039	0.028	0.028	0.03	0.041	0.031	0.022	0.017		0.02	0.024	0.027	0.021	0.02	0.06	0.01	0.032	0.047	0.021	0.028	0.34 0.18
Nitrate Sulphate	50 (5) 250 (5)	1	5.93 22.30	2.41 13.80	3.25 15.82	4.44 19.23	5.19 18.72	5.78 20.65	5.34 20.76	5.35 21.42	2.81	2.66 23.12	4.09	17.90	3.47 21.87	2.98 22.51	2.5 23.97	1.83	3.58 22.58	4.5 28.41	4.47 25.83	4.65 15.95	5.45 24.39	3.9 15.76	4.74 22.92	17 22
Sulphide											23.10															
Calcium Potassium		1	49.57	31.63 5.45	35.95 15.59	42.98 4.76	41.35	47.08 4.95	47.28 4.75	46.22 4.95	32.27 5.18	45.20 4.59		34.93 3.58	43.56	39.32 4.56	37.00 3.91	24.59	39.03 5.40	47.35 11.45	42.84 10.40	35.58 6.31	47.25 5.01	34.16 4.39	45.46 4.44	
Magnesium			8.22	4.73	6.40	6.75	5.38	7.44	7.39	7.49	4.83	7.73		6.17	8.10	7.43	7.06	4.65	7.23	7.48	6.73	4.66	8.11	5.18	7.78	
Sodium Biochemical Oxygen Demand	200(5)	+	15.40 1.0	12.39 2.5	15.23 12.0	13.10 1.0	13.34	14.98	14.72	14.48	10.63 3.6	14.70 1.5	10	11.30	14.24	14.67	15.25 2.7	9.10 3.5	14.53 5.7	15.48 3.2	14.01	11.65 1.5	15.20 1.5	15.79 1.5	14.52 2.7	
Chemical Oxygen Demand			10	20	83	30	10	10	5	5	25	13	5		5	5	5	18	33	38	5	21	24	12	25	
Conductivity Total Oxidisable Nitrogen		1	379 5.96	273 2.46	336 3.28	333 4.48	314 5.22	365 5.81	359 5.64	361 5.39	256 2.84	373 2.68	370 4.11		358 3.49	332	317 2.53	257 1.85	332 3.6	353 4.56	350 4.48	277 4.68	366 5.5	290 3.92	365 4.77	
Total Phosphorus			0.125	0.125	0.94	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125		0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	
	·																									

The Water Framework Directive Priority Substances and Classification (Regulations (Riorthen Include))
 The Water Framework Directive (Priority Substances and Classification) Regulations (Riorthen Include) 2055 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Riorthen Include) 2055 Transitional values (Water Framework Directive) (Include Include Water) Directive) (Include Water) (Include

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of acutedocity.

Note:

Note: 1-Collocoval abile derived via the Metal Biovariability Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) developed by WFDTAL Look at receptor specific assessment using the M-BAT (Assessment Tool (M-BAT) (

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																							
HEAVY METALS	μg/l		27/09/2016	09/01/2017	11/01/2017	06/02/2017	19/07/2017 20/07/2013	15/09/2017	29/09/2017 20/09	2/2017 21/09/201	05/09/2017	07/09/2017	12/09/2017 14/09/201	7 15/09/2017	19/09/2017	21/09/2017	22/09/2017	25/10/2017	20/11/2017	04/12/2017	12/01/2019	19/01/2019	17/04/2019	19/04/2019	25/05/2019
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		27,03,2010	12.50	11/01/101/	12.50	0.31	13/00/1017	0.64	0.77	0.86	0.72	0.78 1.03	13/03/101/	0.57	0.76	21,07,2017	0.39	0.30	0.33	0.39	10,01,1010	0.34	10,04,1010	20,00,2010
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l			5.000		5,000	0.025		0.061	0.062	0.056	0.025	0.025 0.025		0.025	0.025		0.025	0.025	0.025	0.025		0.025		
Chromium (diss.filt)	50 (5)			12.500		12.500	0.125	0.125	0.125	0.125	0.125	0.125	0.252 0.252		0.125	0.292		0.125	0.125	0.125	0.125		0.125		
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94		10.000		10.000	0.500		2.430	2.420	2.060	1.420	4.010 5.910		2.140	5.050		1.970	2.220	2.190	2.890		1.520		
Iron (diss.)	1000 (AA) (1&2)			50		175	50		248	373	472	433	656 484		510	425		178	109	20	132		148		
Mercury (diss.filt)	0.07 MAC (182) 123 (AA) (460 7001)	070.00		0.0025		0.0025	0.0025		0.0025	0.0025	0.0025	0.0025	0.0025 0.0025		0.0025	0.0025 369		0.0025		0.0025	0.0025		0.0025		
Manganese (diss.filt) Molybdenum (diss.filt)	123 (AA) (*****) 70 (8) ?	276.92		304		261	313		934	1147	1407	1160	515 645		722	369		281	307	296	108		384		
Nickel (diss.filt)	4 (AA) (1), 8.6 (AA) (2), 34 (MAC) (182)	14.98	-	12.50		12.50	1.52		2.32	2.41	2.59	2.24	2.42 2.92	_	2.08	2.49		1.81	1.89	2.01	1.57		1.70		
Lead (diss.filt)	1.2(Me now 3) (AA) (1), 1.3 (AA) (2), 14 (MAC) (1&2)	9.64		12.5		12.5	0.125		0.125	0.125	0.125	0.125	0.125 0.266		0.125	0.125		0.125	0.125	0.125	0.125		0.125		
Antimony (diss.filt)	5 (5)																								
Selenium (diss.filt)	10(5)	10					0.38	0.10	0.56	0.10	0.59	0.70	0.50 0.57		0.69	0.69		0.73	0.73	0.66	0.46		0.51		
Zinc (diss.fit)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (100 ACC)	37.15		10.00		10.00	3.99		3.62	3.35	2.64	3.38	3.52 3.06		2.64	3.81		1.96	2.53	2.49	4.61		1.93		
Iron (Total)					230 322	800 293	179 359								_			563 365				809.233079 127.0462543		599 368	$\overline{}$
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)		-		322	293	0.25				_			_				303				127.0402543		300	$\overline{}$
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)						0.025	0.025		0.025															
Aluminium (diss.filt)				50		50	50		50	50	50	50	50 50		50	50		50	5	50	50		50		
Vanadium (diss.filt)							0.025		0.085	0.108	0.071	0.061	0.270 0.401		0.070	0.292		0.125	0.061	0.025	0.172		0.051		
Phenois	ug/l																								
Phenois, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2)			1.25		1.25	7.10		22	.50				22.50			22.50					22.50		22.50	22.50
Alinhatics	ug/l																								
Aliphatics EC CS-C6	15000 (7)		1	25	1	25		10		10	+	t		+	+			l				10		10	10
EC>06-C8	15000 (7)			30		30		12.5		12.5												12.5		12.5	12.5
FC>C8-C10	300 (7)			0.05		0.05		7.5		7.5												7.5		7.5	7.5 5 5
EC>C10-C12	300 (7)			3.5				5		5												5		5	5
EC>C12-C16 EC>C16-C21	300 (7)			5		5		5		5												5		5	
EC-C16-C21				2.5 10		2.5 10		18 5		18 5												5		5	5
EC>C21-C35 EC>C35-C44			-	2.5		2.5		5		5	_			_								5		5	5
				2.3		23							-									,			
Aromatics EC CS-C7	10 (7)			0.025		0.025		1		1												1		1	1
EC>C7-C8	700 (7)			0.025		0.025		2.5		2.5												2.5		2.5	2.5
EC>C8-C10	300 (7)			0.025				25		25												25		25	25 5 5
EC>C10-C12	90 (7)			3.5				5		5												5		5	5
EC>C12-C16 EC>C16-C21	90 (7)					3		5							_							5		5	
EC>C21-C35	90 (7)			15 15		15		5		5												5		5	5
Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)			0.50		0.50	0.50	0.50	0.	50 0.50				0.50			0.50					0.50		0.50	0.50
Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)			0.50		0.50	0.50	0.50	0.	50 0.50				0.50			0.50					0.50		0.50	0.50
Ethylbenzene	300 (8)			0.50		0.50	0.50	0.50	0.	50 0.50				0.50			0.50					0.50		0.50	0.50 1.00
p/m-Xylene				0.50		0.50	0.50	1.00	1	00 1.00				1.00			1.00					1.00		1.00	1.00
o-Xylene Sum of detected Xylenes	500 (8)			0.50		0.50	0.50	0.50	0.	50 0.50				0.50			0.50					0.50		0.50	0.50
Polyaromatic Hydrocabons	μg/l																								
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)			0.005		0.005	0.500	0.003		0.003												0.003		0.003	0.003
Acenaphthylene (aq)	, ,, , , , , , , , , , , , , , , , , , ,			0.005		0.005		0.001		0.001												0.001		0.001	0.001
Acenaphthene (aq)				0.005		0.005		0.001		0.001												0.001		0.001	0.003
Fluorene (aq)	•			0.005		0.005		0.001		0.001												0.001		0.001	0.001
Phenanthrene (aq)	0.1 (AA & MAC) (1 & 2)			0.005		0.005		0.002		0.002												0.002		0.002	
Anthracene (aq) Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)			0.005		0.005		0.001		0.001 0.001					_							0.001		0.001	0.001
Pyrene (ag)				0.005		0.005		0.001		0.001												0.001		0.001	0.001
Benzo(a)anthracene (aq)	-			0.005		0.005		0.001		0.001												0.001		0.001	0.001
Chrysene (aq)	•			0.005		0.005		0.001		0.001												0.001		0.001	0.001
Benzo(b)fluoranthene (aq)	0.017 (MAC) (182)			0.005		0.005		0.001		0.001												0.001			0.001
Benzo(k)fluoranthene (aq)	0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.00017 (AA) (1 8. 2) MAC (0.27 (1) 0.027 (2))	-	1	0.005		0.005		0.001		0.001	+	-			1	\vdash		-	\vdash			0.001		0.001	0.001
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.00017 (MM) (1 & 2) MAC (0.27 (1) 0.027 (2))	_	+	0.005		0.005		0.001		0.001	+	-			+							0.001		0.001	0.001
Dibenzo(a,h)anthracene (aq)			1	0.005	1	0.005		0.002		0.001	+	t		+	+			l				0.002		0.002	0.002
Benzo(g.h.i)pervlene (ag)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		1	0.005	1	0.005		0.002		0.002	+	t		+	+			l				0.002			0.002
INORGANICS	mg/I																								
Dissolved Organic Carbon			12	2.6		3.3	3	1	5.1	4.4	4.8	3.8	11.2 14.8		4.2	10.7		3.4	3	3.3		4.38		3.3	4.9
pH	6 - 9 (2&4)		7.1			7	6.8		6.7	6.9	6.8	6.8	7.1 7.2			7.8		7.8		7.2		7		7.1	7.7
Alkalinity (Total)	250 (5)		120	83		88	90	+	96	97	101	102	72 81 19 18	_	97	79		92	95	94		54		88	84
Chloride Ammoniacal Nitrogen	250 (5)	_	0.005	0.15		0.22	26 0.16	+	22.5 0.62	23 0.62	0.55	25 0.6	19 18 0.23 0.27		25	0.22		0.32	0.3	0.28		0.16		0.32	19
Ammoniacai Nitrogen Nitrite	+	_	0.005	0.15		0.011	0.16	+	0.62	0.62	0.55	0.04	0.023 0.27		+	0.037		0.037	0.03	0.28		0.16		0.32	0.02 0.01
Nitrate Nitrate	50 (5)		20	5.01	1	4.89	4.25		3.776	3.85	3.76	4.12	2.56 2.52	+	+	2.77		4.44	4.71	4.47		2.33		4.2	0.98
Sulphate	50 (5) 250 (5)			15.90		22.00	22.50		21.80	19.20	24.00	23.90	14.00 12.00		21.90	13.60		15.70	20.00	20.30	10.40		21.10		
Sulphide																									
Calcium				36.00		41.60	43.50		42.00	41.40	45.70	45.80	31.50 32.70		45.90	33.90		34.40	43.70	43.80	25.20		41.20		
Potassium							4.83	_	5.33	5.38	5.60	5.44	5.00 8.10		4.59	6.59		4.02	5.02	6.47	4.09		4.13		
Magnesium	200(5)		1	5.03		7.02	6.45	4	6.82	5.43	7.35	7.60	4.42 5.06	_	7.42	4.86		5.20	6.51	0.32	3.39		6.57		
Sodium Rieshowical Owners Domand	200(5)	-	1	14.60		14.10	14.60	+	14.30	14.00	15.00	15.20	11.10 9.89		14.60	10.80		11.90	14.90	14.70	12.40	4.5	14.00		- 15
Biochemical Oxygen Demand Chemical Oxygen Demand		_	+	-				+	1.5 21	1.5 7.5	1.0	1.0	1.5 1.5		+	3.3 34		1.5 20	1.5	1.0		1.5 10		1.5	1.5 10
Conductivity			1		1		358		353	360	367	378	273 279	+	358	302		353	358	359		231		339	259
Total Oxidisable Nitrogen			1	5.04		4.9	4.29	+	3.8	3.88	3.8	4.16	2.58 2.55	_	330	2.81		4.48	4.74	4.51		2.34		4.23	259 0.99
Total Phosphorus									0.125	0.125		0.125				0.125			0.125	0.125		0.125			0.125
								_						-											

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Instand) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Instand) 2015 Freshwater.
 The Classification (Priority Substances and Classification) Regulations (Northern Instand) 2015 Translational waters.
 The Classification (Priority Substances and Classification) Regulations (Northern Instand) 2015 Translational waters.
 The Classification (Priority Substanded Priority Su

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EQG), Where the MAC EQG are marked as "not applicable", the AA EQG shows a considered protective applint short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the base of acceleratory.

Note: 4 Total control stable derived via the Metal Biovariability Assessment Total (M-BAT) developed by WFDTAC Look at recordor specific assessment using the M-BAT (Seveloped by WFDTAC Look at recordor specific assessment using the M-BAT (Seveloped by WFDTAC Look at recordor specific assessment using the M-BAT (Seveloped by WFDTAC Look at recordor specific assessment using the M-BAT (Seveloped by WFDTAC Look at recordor specific assessment using the M-BAT (Seveloped by WFDTAC Look at recordor specific assessment using the M-BAT tool with pLOC and Look of looks of least feet of least specific assessment using the M-BAT tool with pLOC and Looks of least sevel took of least sevel least sevel least sevel least tool with plot of least sevel processors from the least blood selection by least tool with plot of least sevel processors from the least blood selection by least tool with plot least sevel l

Property of the property of																											
Column	Sample Point / Determinands	TSV	MBAT PNEC (ug/l)							SW5																	
Second Second	HEAVY METALS	ug/I		27/06/2018	03/10/2018	04/10/2018	09/01/2019 14/01/2019	27/03/2019	28/03/2019	11/04/2019	29/04/2019	21/05/2019	22/05/2019	19/06/2019	20/06/2019	07/08/2019	08/08/2019	10/09/2019	11/09/2019	15/10/2019	06/11/2019	06/01/2020	07/01/2020	22/01/2020	26/02/2020	18/03/2020	10/08/2020
The column Column	Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)													0.29												
Property Property	Cadmium (diss.filt)						0.025																			0.025	0.025
March Marc																											
Marchan Marc	Copper (diss.filt)	1 (AA) bioavailable (1) (1) (1) (2)	34.94		0.500				1.292	0.914															2.768		
Column	Mercury (dies fit)	1000 (AA) (162)			20				78	20		_								220				403	207		
Column C			276.92	515	380		0.0025		311.2997559	246			322.8109176		422 6606029		521 6546436		441.7555713	599	525 2549196	402.669334		472 9506797	239 7590229		157 7211087
Second Column Second Colum	Molybdenum (diss.filt)	70 (8) 2																									
Property Property		4(MAC) (182)	14.98																								
Property columns		1.2(MAC) (1&2)	9.64	0.125	0.125		0.125		0.125	0.125			0.125		0.125		0.125		0.125	0.125	0.125	0.125		0.125	0.125	0.0706	0.025
Property Property	Antimony (diss.hit)		- 40																								
Part	Zinc (diss.filt)	10.9 (ΔΔ) (1) ±ΔBC bigavailable 6.8 (ΔΔ) (2) ±ΔBC (100 most)	37.15																								
Part		10.3 (AA) (1) TABO BIOSTSIISON U.S (AA) (E) TABO	57.15	1.30	2.33		132		2.49	1.4/			1,42		1.79		2.20		2.50	3.02	4.30	3.32		2.04	3.00	4.99	2.01
Control Cont	Manganese (Total)																										
Marie Mari		4.7 (AA) (1) 95th%ile (32)																									
Part		3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)								0.025			0.025		0.025				0.025	0.025	0.025	0.025					0.025
Company Comp	Aluminium (diss.filt)				50					50			50		50						50			50	50	50	50
Property of the property of		un/l		0.025	0.025		0.025		0.025	0.025			0.025	_	0.025		0.076		0.069	0.088	0.060	0.053		0.061	0.1/6	0.213	0.051
Control Cont	Phenols, Total	7.7 (182) 46 (95th%ile) (182)				22.50																					
Maries	Speciated TDH																										
C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-	Aliphatics																										
Color Major																											
Color Major	EC>C6-C8	15000 (7)				12.5																					
COUNTY C												_															
Color Colo	FC>C12-C16					5																					
Color Colo						5																					
## Appelled Company of the Company o	EC>C21-C35					5																					
## C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C						5																					
## C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C	Aromatics	44.70																									
Column C																											
Color Colo	FC>C8-C10	300 (7)	_			2.5	-																				\rightarrow
C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-	EC>C10-C12																										
## COLOR 10 10 10 10 10 10 10 1	EC>C12-C16	90 (7)				5																					
Description 10 10 10 10 10 10 10 1																											
Figure Michael Month (1) Michael Month (90 (7)																									
## Description of the control of the	Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)																									
## 150 150	I oluene	74 (AA) 50th fulle (380) (1), 74 (AA) 50th fulle (370) (2)										_															
## Service (A) 1.00	n/m-Xvlene	SSC (0)				1.00																					
Provided Provided						0.50																					
Appellation (a) Column C	Sum of detected Xylenes																										
Accountable (a)		µg/l																									
Regulative (a) Recording (b) Recording (c) R		2 (AA) (1 &2) 130 (MAC 1&2)				0.003																					
Proceedings	Acenaphthene (aq)		_				-																				
## Activation Color	Fluorene (aq)					0.001																					$\overline{}$
Artifacere (as)																											
Perce (cb)	Anthracene (aq)					0.001																					
Control Cont	Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)				0.001																					
Control Cont		-	-	1	1		 	1	-	\vdash		-						-	1	1			—				
Best-Off-Control Best-Off-Co	Chrysene (aq)	 	+	1	 	0.001	 	1	-			-						-	 	 							
Beneal Association Beneal	Benzo(b)fluoranthene (ag)	0.017 (MAC) (1&2)	1	1	1			1				1	1						1	1							
Index(1)2-informer (in)	Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2)				0.001																					
Demosts/Jamphraceric (a) Demosts/Jamphraceric (b) Demosts/Jamphraceric (c) Demosts/Jamphraceri	Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))				0.001																					
Second Column Second Colum	Indeno(1,2,3-cd)pyrene (aq)	-	-	1		0.001		1																			
Note Note	Dibenzo(a,h)anthracene (aq)	0.0082 (MACV1) & 0.00082 (MACV2)	-	1	1	0.002	 	1	-	\vdash		-						-	1	1			—				
Description						0.302																					
get 6-9(244)					7.1		2.5	2.5			3.4	2.1		2.6		3.1		3.8		4.4	3.1		2.6	2.8	4.3	9.4	1.6
Cherick 250(9)	pH	6 - 9 (2&4)					6.7	7			6.8	6.7		6.9		6.7		6.8		6.8	6.9		7.1	7.4	6.9	6.7	7
Americal Mitrogen				1							88					90									69	77	87
Note: 95(5)		250 (5)	-	1																							
Note			_	+						_																0.51	0.05
Supplement Department of the Control	Nitrate Nitrate	50/5)	+	+															-								
Supplement		250 (5)	+	24.20				0.14	24.18	24.00	00	01	24.04	3.00	24.16	4.73	22.01	0.32	22.39			18.92	3.17				
Ceisarr 4.10													0.005		0.005		0.005				0.005	0.024					
Magnetism 172 759 744 769 678 750 725 725 727 727 728 748 728 728 728 729 724 729 724 728	Calcium								46.26				42.58		44.93		40.64		46.19		46.13	36.58					
Soften 2000 15.00 15.00 15.10 15.71 14.50 15.81 15.01 15.13 15.11 15.00 15.13 12.23 15.17 11.08 14.53 Botherical Chapter Demand 1 1.6 1.9 1.5 1.5 1.0 <	Potassium				4.50		4.29		4.50	4.02			4.11		4.38		4.31			5.61		3.59				9.08	4.59
Schemical Charger Demand 15 15 15 15 15 10 10 10	Magnesium	200(7)	-		7.09		7.14	1	7.00				7.05		7.32						7.23	5.78			4.92	5.88	6.75
Observed 9 9 1 1 1 19 19 19 19 19 19 19 19 19 19		200(5)	-	15.40		-		15	15./1	14.50	1.5	15	14.86	10	15.35	1.0	14.2b	1.0	15.11			12.25	1.0				
Conductivity 28 388 355 347 342 359 336 337 342 359 336 351 359 322 334 346 71642 016348 1870cmp 4 0.68 5.35 6.37 4.88 4.83 5.51 4.83 6.6 4.84 4.77 5.3 5.3 5.53 3.09 322 4.41	Chemical Oxygen Demand		-	t	3.0 21	l	10	5	l		1.0	10	-	10		11		10		10	10		10	10	10	39	10
Total Quidisable Nitrogen 5.25 6.17 4.88 4.83 5.11 4.83 6.6 4.84 4.77 5.2 5.53 3.09 3.54 4.4.1				1	238		368	355			347	342		359		336		357		362	358		363	359	282	313	346
Total Phosphonus 0.125 0	Total Oxidisable Nitrogen				0.68		5.25	6.17			4.88	4.83		5.11		4.83		6.6		4.84	4.77		5.2	5.53	3.09	3.54	4.41
	Total Phosphorus				0.125		0.125	0.125			0.125	0.125		0.125		0.125		0.125		0.125	0.125		0.125	0.125	0.125	0.44	0.125

The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern related) 2015 Feathwater.
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MAX. This parameter in the funionmental Quality Standard expressed as a maximum allowable concentration (MAX-EQS) where the MAX-EQS are marked as "not supplicable", the AX-EQS values are considered protective against short term polishorispeaks in continuous discharges since they are significantly lower than the subsections on the basic of Acutestocky.

Note:

Note: 4 - Totalogical aliable derived via the Metal Biovariability Assessment Total (M-BAT) developed by WDTTAC Look at receptor specific assessment using the M-BAT (aveloped by WDTTAC Look at receptor specific assessment using the M-BAT (aveloped by WDTTAC Look at receptor specific assessment using the M-BAT (aveloped by WDTTAC Look at receptor specific assessment using the M-BAT (aveloped by WDTTAC Look at receptor specific assessment using the M-BAT (aveloped by WDTTAC Look at receptor specific assessment using the M-BAT (aveloped by MDTTAC Look at receptor specific assessment using the M-BAT (aveloped by MDTTAC Look at receptor specific assessment using the M-BAT (aveloped by MDTTAC Look at receptor specific assessment using the M-BAT (aveloped by MDTTAC Look at receptor specific assessment using the M-BAT (aveloped by MDTTAC Look at receptor specific assessment using the M-BAT (aveloped by MDTTAC Look at receptor specific assessment using the M-BAT (aveloped by MDTTAC Look at receptor specific assessment using the M-BAT (aveloped by MDTTAC Look at receptor specific assessment using the M-BAT (aveloped by MDTTAC Look at receptor specific assessment using the M-BAT (aveloped by MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor specific assessment using the MDTTAC Look at receptor speci

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																									
HEAVY METALS	μg/l		07/09/2020	13/10/2020	10/11/2020	01/12/2020	11/01/2021	03/02/2021	09/03/2021	20/04/2021	21/04/2021	11/05/2021	23/06/2021	05/08/2021	23/09/2021	20/10/2021	24/11/2021	24/01/2022	22/03/2022	20/07/2016	09/08/2016	27/09/2016	09/01/2017	11/01/2017	06/03/2017	07/03/2017	19/07/2017
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		0.36	0.38	0.34	0.33	0.31	0.38	0.47		0.38	0.37	0.36	0.43	0.27	0.68	0.28	0.35	0.33				12.50			12.50	0.44
Cadmium (diss.filt) Chromium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l		0.025 0.125	0.025	0.025	0.025	0.025	0.025	0.025 0.125	-	0.025	0.056	0.025 0.125	0.025	0.025	0.025 0.125	0.025 0.125	0.025 0.125	0.025 0.125	+		-	5.000 12.500		-	5.000 12.500	0.025 0.125
Copper (diss.filt)	1 (AA) bigavailable (see Note 1) (1) (see Note 4) (2)	34.94	2.098	3.090	1.969	1.831	1.572	2.990	0.757		0.994	0.939	0.593	1.349	0.504	5.063	1.496	1.164	1.086				10.000			10.000	0.500
Iron (diss.) Mercury (diss.filt)	1000 (AA) (182) 0.07 MAC (182)		138	130	127	143	146	148	1117		260	340	186	298	40	196	204	159	213				590			548	568
Manganese (diss.filt)	123 (AA) (*********************************	276.92	0.0025 132.6803136	0.0025 204.9895366	0.0025 366,8185499	0.0025 370,7850659	332.8521603	0.0025 170.3329404	0.0025 878.0605253		0.0025	0.0025	0.0025 501.5282915	0.0025 260.4515314	0.0025	0.0025 117.9300991	0.0025 124.3678289	0.0025 460,9092828	0.0025 421.2079325	-		-	0.0025			0.0025	0.0025 34
Molybdenum (diss.filt) Nickel (diss.filt)	70 (8) 2	14 98	1 57	1 95	1.80	1.81			198		1.76	1.75	150			2.78	154										1.09
Nickel (diss.hit) Lead (diss.filt)	4 ^{(NM) (MAC)} (AA) (1), 8.6 (AA) (2), 34 (MAC) (182) 1.2 ^{(MA) (30) (3)} (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	14.98 9.64	0.025	1.95 0.025	1.80 0.025	0.025	0.025	1.76 0.025	1.98 0.025		0.025	0.025	0.025	1.46 0.095837082	1.36 0.025	0.060579634		1.63 0.025	1.56 0.025				12.50 12.5			12.50 12.5	0.125
Antimony (diss.filt)	5 (5)																						1				
Selenium (diss.filt) Zinc (diss.filt)	10(5) 10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (ABC (ABC (ABC (ABC (ABC (ABC (ABC (10 37.15	0.27	0.35	0.30	0.31	0.28	0.36	0.25		0.28	0.10	0.10	0.10	0.10	0.52	0.28	0.25	0.24								0.21
Iron (Total)	10.9 (AA) (1) +ABC bloavallable 6.6 (AA) (2) +ABC	37.15	2.46	2.15	2.62	2.23	2.52	2.80	2.02		2.06	2.14	1.32	2.50	5.41	2.88	3.37	4.39	2.14	-		-	10.00	2280		10.00 919	808
Manganese (Total) Chromium III (diss.filt)																								157		64	51 0.25
Chromium III (diss.filt) Chromium VI (diss.filt)	4.7 (AA) (1) 95th%ile (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.13 0.025	0.13	0.13 0.025	0.13	0.13	0.13	0.13		0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13 0.025	0.13 0.025								0.25
Aluminium (diss.filt)	0.4 (AA) (1); 0.0 (AA) (2); 02 (0001 AII0) (2)		50	50	50	50	50	50	50		50	50	50	50	50	50	50	50	50	1			50			50	50
Vanadium (diss.filt)		1	0.097	0.106	0.055	0.025	0.025	0.141	0.025		0.025	0.025	0.025	0.112	0.025	0.184	0.025	0.025	0.025	1							0.126
Phenois, Total	ug/l 7.7 (182) 46 (95th%ile) (182)																						1.25		1.25		$\overline{}$
Speciated TPH	ug/l																										
Aliphatics EC CS-C6	15000 (7)	 		1					-	1										-		+	36	1	76		$\overline{}$
EC>C6-C8	15000 (7)																						30		30		
EC>C8-C10 EC>C10-C12	300 (7) 300 (7)																						0.05 3.5		0.05		
EC>C12-C16	300 (7)																			-		-	3.5 5		5		
EC>C16-C21																							2.5		2.5		
EC>C21-C35 EC>C35-C44																							10 2.5		10 2.5		
Aromatics FC CS-C7																											
EC C5-C7 EC>C7-C8	10 (7) 700 (7)																						0.025		0.025		
EC>C8-C10	700 (7) 300 (7)																			1		-	0.025	-	0.025		
EC>C10-C12	90 (7)																						3.5				
EC>C12-C16 EC>C16-C21	90 (7)																						3 15		3 15		\leftarrow
EC>C21-C35	90 (7)																						15		15		
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)																						0.50		0.50		
Ethylpenzene	300 (8)																			-		-	0.50		0.50 0.50		
p/m-Xylene	· ·																						0.50		0.50		=
o-Xylene Sum of detected Xylenes	500 (8)																						0.50		0.50		\leftarrow
Polyaromatic Hydrocabons	μg/I 2 (AA) (1 &2) 130 (MAC 1&2)																										
Naphthalene (aq) Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)																						0.005		0.005		
Acenaphthene (aq)																				1			0.005		0.005		
Fluorene (aq)	*																						0.005		0.005		
Phenanthrene (aq) Anthracene (aq)	0.1 (AA & MAC) (1 & 2)																			_			0.005	_	0.005		
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)																						0.005		0.005		
Pyrene (aq) Benzo(a)anthracene (aq)	-	+			-				+	1		-	-				-	-		+	-	1	0.005	+	0.005		
Chrysene (aq)	-																						0.005		0.005		
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.0017 (AA) (18.2) MAC (0.27 (1) 0.027 (2))	 		1					-	1										-		+	0.005	1	0.005		$\overline{}$
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))																						0.005		0.005		
Indeno(1,2,3-cd)pyrene (aq)	•	1		\vdash						1					_					1		1	0.005		0.005		
Dibenzo(a,h)anthracene (aq) Benzo(q,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	1	-	 		-		-	-	1				1		-			-	1		 	0.005	 	0.005		
INORGANICS	mg/I																										
Dissolved Organic Carbon pH	6 - 9 (2&4)	+	5.4 7.2	5.6 6.8	3.2 6.6	3.3 6.6	4.6 6.7	6.6	3.3 6.7	4 6.8		2.6 7.1	2.1 6.5	6.8	6.8	10.2	3.5 6.7	4 6.6	2.51 6.5	20 8.1	15 8	14 7.8	8	+		7 75	8.5 7.8
Alkalinity (Total)			83	88	89	89	87	72	87	91		93	86	68	86	86	91	88	88	82	67	84	53			50	60
Chloride	250 (5)	1	21	24	27	28	24	19	23	23		24	24	19	24	23	23	24	23	21	18	20	17			19	17
Ammoniacal Nitrogen Nitrite	+	1	0.032	0.19	0.15	0.16	0.18	0.18	0.58	0.38		0.4	0.32	0.029	0.028	0.005	0.036	0.21	0.22	0.073	0.011	0.041	0.05	 	+	0.02	0.02 0.01
Nitrate	50 (5) 250 (5)		4.12	5.54	5.6	5.54	5.35	3.66	5.03	4.67		4.4	4.26	2.88	2.73	0.03	4.68	5.06	4.76	3.9	3.5	3.5	0.83			0.92	0.84
Sulphate Sulphide	250 (5)	 	18.60	20.11	21.41	21.40	21.95	16.49	21.34	1	17.87	22.85	23.91	13.76	23.11	24.78	25.86	23.98	22.49	-		+	3.78	1		9.93	7.10
Calcium	<u> </u>		39.59	44.66	45.23	45.60	44.34	35.79	41.48		33.51	43.53	42.42	25.09	41.64	42.05	44.13	45.85	42.98				18.90			20.60	29.00
Potassium Magnesium		1	4.42 6.11	5.60 6.50	4.79 6.76	4.66 6.67	4.53	4.76 5.17	4.13 6.38	1	3.38	4.21 7.74	4.27 6.98	2.84	4.69	8.15 6.16	8.56 6.47	4.69 7.22	4.13 6.70	1		1	2.95			436	2.26 4.53
Magnesium	200(5)	1	13.22	6.50 14.00	6.76 14.80	6.67 14.76		5.17 11.97	6.38 14.23	1	5.32 11.30	7.24 14.45	6.98 14.96	4.40 9.84	6.89 14.85	6.16 13.79	6.47 14.42	7.22 15.12	6.70 14.11	1		 	2.95 10.90	 	+	4.36 11.70	4.53 11.60
Biochemical Oxygen Demand	1100		1.0	1.0	1.0		1.0	2.2	1.5	1.0		1.5	1.5	1.0	1.5	1.5	1.5	1.5	1.5								
Chemical Oxygen Demand Conductivity		+	10 312	10 341	10 356	5 350	5 347	13 282	5 335	5 359		5 355	5 343	25 265	5 347	30 349	5 346	15 354	25 348	+	-	1	-	+			248
Total Oxidisable Nitrogen	<u> </u>		4.15	5.61	5.64	5.58	5.39	3.69	5.06	4.68		4.42	4.29	2.91	2.76	0.03	4.72	5.1	4.78				0.84			0.93	248 0.85
Total Phosphorus		1	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125		0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	1		1	1				=

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Instand) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Instand) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Instand) 2015 Transitional waters.
 The Commoditive Directive (Northern Instand) Commoditive (Priority Substand) (Northern Instand) 2015 Transitional waters (Northern Instand) (No

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered portective against short eem pollution peaks in continuous discharges since they are significantly lower than the values defined on the based ancatestory.

Note: CODIcional stable derived via the Metall Biovariability Assessment Tool (M-BAT) developed by WTDTAL Look at recorptor specific assessment using the M-BAT (Seveloped by WTDTAL Look at recorptor specific assessment using the M-BAT (Seveloped by WTDTAL Look at recorptor specific assessment using the M-BAT (Seveloped by WTDTAL Look at recorptor specific assessment using the M-BAT tool with place Code Calls developed by WTDTAL Code at recorptor specific assessment using the M-BAT tool with place Cancel Look before the Code Cancel Canc

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																									
HEAVY METALS	μg/I		20/07/2017	15/08/2017	29/08/2017	30/08/2017	31/08/2017	05/09/2017	07/09/2017	12/09/2017	14/09/2017	15/09/2017	18/09/2017	21/09/2017	22/09/2017	25/10/2017	30/11/2017	04/12/2017	12/01/2018	18/01/2018	17/04/2018	18/04/2018	26/06/2018	27/06/2018	03/10/2018 04/10/	2018 09/01/20	19 14/01/2019
Arsenic (diss.filt) Cadmium (diss.filt)	50 (AA) (1) 25 (AA (2) 0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l				0.54		0.49	0.59	0.54	0.70	0.76 0.025		0.58	0.64		0.53	0.41	0.42	0.42		0.42			0.35	0.38 0.025	0.41	
Chromium (diss.filt)	50 (5)			0.125	0.125		0.125	0.125	0.125	0.125	0.125		0.277	0.438		0.262	0.125	0.125	0.250		0.252			0.125	0.125	0.125	
Copper (diss.fit)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (182)	34.94			2.800 616		2.440 450	2.930	2.330	3.570	3.470 764		2.440 795	3.310 769		2.040	1.760	1.810	1.870 341		2.350 556			1.070 225	6.220 616	1.530 620	
Mercury (diss.filt)	0.07 MAC (1&2)				0.0025		0.0025	0.0025	0.0025	0.0055	0.006		0.0025	0.0059		0.0025	0.0025	0.0025	0.0025		0.0025			0.0025	0.0025	0.0025	
Manganese (diss.filt)	123 (AA) (*********************************	276.92			110		93	72	82	99	69		114	71		76	96.4	72	62		38			44	38	460	
Nickel (diss.filt)	4 (MAC) (182)	14.98			1.74		1.62	1.66	1.53	1.83	1.96		1.73	1.73		1.59	1.48		1.20		1.11			0.87	1.13	1.20	
Lead (diss.filt) Antimony (diss.filt)	1.2(MAC) (1), 1.3 (AA) (2), 14 (MAC) (1&2) 5 (5)	9.64			0.125		0.125	0.125	0.125	0.451	0.552		0.125	0.469		0.125	0.125	0.125	0.125		0.125			0.125	0.28	0.125	
Selenium (diss.filt)	10(5)	10		0.10	0.10		0.10	0.10	0.10	0.10	0.10		0.31	0.31		0.34	0.31	0.25	0.24		0.10			0.47	0.31	0.24	
Zinc (diss.filt) Iron (Total)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (500 ACM ACM ACM ACM ACM ACM ACM ACM ACM ACM	37.15			3.08		1.70	1.72	1.73	4.13	4.65		3.11	4.17		2.50 1190	3.51	2.80	4.91	2093 852991	3.19	1490		1.44	4.38	2.20	
Manganese (Total)																96				124.800928		77					_
Chromium III (diss.filt) Chromium VI (diss.filt)	4.7 (AA) (1) 95th%ile (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)			0.025	0.025		0.025	0.025	0.025	0.025	0.025		0.036	0.025													
Aluminium (diss.filt)	water (and (a)) are found (a) are found (a)			0.025	50		50	50	50	50	0.025 50		0.025 50	0.025 50		50	5	50	50		50			20	50	50	
Vanadium (diss.filt) Phenols	ug/l				0.281		0.237	0.320	0.257	0.426	0.459		0.276	0.438		0.125	0.195	0.197	0.235		0.251			0.092	0.132	0.168	
Dhanole Total	7.7 (1&2) 46 (95th%ile) (1&2)		5.90			22.50						22.50			22.50					22.50		22.50	22.50		22.	0	
Speciated TPH Aliphatics	ug/I																										
EC CS-C6	15000 (7)			10	10		10	10	10	10	10		10	10						10		10	10		10		
EC>C6-C8 FC>C8-C10	15000 (7) 300 (7)			12.5 7.5	12.5 7.5		12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5		12.5 7.5	12.5 7.5						12.5 7.5		12.5 7.5	12.5 7.5		12.	+-	-
EC>C10-C12	300 (7)			5	5		5	5	5	5	5		5	5			1			5		5	5		5		-
EC>C12-C16 EC>C16-C21	300 (7)			5	5		5	5	5	5	5		5 23	5						5		5	5		5		
EC>C21-C35				5	5		5	5	5	5	5		5	5						5		5	5		40	-	-
EC>C35-C44				5	5		5	5	5	5	5		5	5						5		5	5		5		
Aromatics EC CS-C7	10 (7)			1	1		1	1	1	1	1		1	1						1		1	1		1	-	-
EC>C7-C8 EC>C8-C10	700 (7) 300 (7)			2.5	2.5		2.5	2.5	2.5	2.5	2.5		2.5	2.5						2.5		2.5	2.5		2.		
EC>C10-C12	90 (7)			5	25 5		25 5	25 5	25 5	25 5	25 5		25 5	25 5						25 5		25 5	25 5		25		-
EC>C12-C16 EC>C16-C21	90 (7) 90 (7)			5	5		5	5	5	5	5		5	5						5		5	5		5		
EC>C21-C35	90 (7)			5	5		5	5	5	5	5 5		5	5 5		-				5		5	5		5	$-\!\!\!\!+\!\!\!\!-\!\!\!\!-$	-
Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50					0.50		0.50	0.50		0.5		
Toluene Ethylbenzene	74 (AA) 95th%le (380) (1), 74 (AA) 95th%le (370) (2) 300 (8)		0.50	0.50 0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	-				0.50		0.50	0.50		0.5		-
p/m-Xylene			0.50 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50					1.00 0.50		1.00 0.50	1.00 0.50		0.5 1.0 0.5		
o-Xylene Sum of detected Xylenes	500 (8)		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	-				0.50		0.50	0.50		0.5		-
Polyaromatic Hydrocabons	μη/l 2 (AA) (1 &2) 130 (MAC 1&2)				0.003			0.003	0.003	0.003	0.003			0.003						0.003		0.008	0.003		0.0		
Naphthalene (aq) Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)		0.500	0.003 0.001	0.003		0.003	0.001	0.003	0.001	0.003		0.003	0.003		-				0.003		0.008	0.003		0.0	1	-
Acenaphthene (aq)				0.001	0.001		0.001	0.001	0.001	0.001	0.001		0.001	0.001						0.001		0.002	0.003		0.0		
Fluorene (aq) Phenanthrene (aq)	i i			0.001	0.001		0.001	0.001	0.001	0.001	0.001		0.001	0.001						0.001		0.001	0.002		0.0	12	-
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)			0.001 0.001	0.001		0.001	0.001	0.001	0.001	0.001		0.001	0.001						0.001		0.001	0.001		0.0		
Fluoranthene (aq) Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)			0.001	0.001		0.001	0.001	0.001	0.001	0.001		0.001 0.001	0.001			1			0.001 0.001 0.001		0.004	0.001		0.0	01	-
Benzo(a)anthracene (aq) Chrysene (aq)	*			0.001	0.001		0.001	0.001	0.001	0.001	0.001		0.001 0.001	0.001								0.001	0.001		0.0		
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)			0.001	0.001		0.001	0.001	0.001	0.001	0.001		0.001	0.001						0.001		0.001	0.001		0.0	01	
Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))			0.001	0.001		0.001	0.001	0.001	0.001	0.001		0.001	0.001		_				0.001		0.001	0.001		0.0	01	
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)				0.001	0.001		0.001	0.001	0.001	0.001	0.001		0.001	0.001						0.001 0.001 0.002		0.001	0.001		0.0	02	
Dibenzo(a,h)anthracene (aq) Renzo(a,h,i)nerviene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		_	0.002 0.001	0.002		0.002	0.002	0.002	0.002	0.002		0.002	0.002		<u> </u>				0.002	-	0.002	0.002		0.0	13	+-
INORGANICS	mg/l			0.001																							
Dissolved Organic Carbon	6 - 9 (28.4)				9.4 7.4		7.6	10.7	8.2 7.8	17.5 7.2	19.9 7.4		12.3 7.5	16.8 7.3		9.7 7.6	7.7 7.4	9.1 7.5	_	4.56 7.3	-	11.1 7.5	5.1 7.7		6.9 7.5		8.9 7.5
pH Alkalinity (Total)					65		69	55	71	34	33		52	28		49	48	45		28		33	85		75		57
Chloride Ammoniacal Nitrogen	250 (5)				16.6 0.02		17	14 0.02	17 0.02	13 0.08	12 0.02	_	15	12 0.04		15	20	16 0.05	↓ — —	28 0.08		12 0.05	19 0.05		18 0.02	-+-	16 0.02 0.008
Nitrite					0.006		0.006	0.008	0.007	0.01	0.009			0.011		0.008		0.008	<u> </u>	0.006		0.013	0.011		0.005		
Nitrate Sulphate	50 (5) 250 (5)				1.004 9.35		1.05 6.45	0.76 8.38	0.93 8.85	0.6 4.50	0.38 4.05		7.77	0.4 3.05		0.74 6.63	0.86 7.31	0.78 6.37	5.40	0.55	4.58	0.61	0.94	9.70	0.75 10.70	9.41	1.01
Sulphide	250 (5)																										
Calcium Potassium					25.70 2.81		26.20 2.37	22.50 2.27	27.30 2.57	14.70 2.83	13.10 2.74		21.60 2.01	11.60 2.31		20.50 2.72	19.70 2.57	18.70 3.03	13.40 2.71		13.70 1.64		_	32.10 2.14	28.10 1.93	23.80 1.84	
Magnesium		_			4.60		3.34	4.00	5.07	2.05	2.52		3.83	1.95		3.54	3.22	0.09	2.21		2.54			5.93	5.38	4.31	
Sodium Ricebonical Common Domand	200(5)				11.00		11.00	10.00	11.40	7.59	7.14		9.74	6.65		10.40	12.70	10.10	17.20	4.5	8.53		1.5	13.00	12.10	11.20	
Biochemical Oxygen Demand Chemical Oxygen Demand		_			1.5 31		1.5 25	1.0 32	1.0 24	1.5 49	1.5			1.5 50		1.5 20	1.0 21	1.0 25	+	1.5		1.5 36	1.5		2.8	-+	1.0 23
Conductivity					219		228	188 0.77	229 0.94	138	124 0.39		184	119		179	192	173 0.79		180 0.56		132	262 0.95		10 242 0.75		23 209
Total Oxidisable Nitrogen Total Phosphorus					1.01 0.125		1.06 0.125	0.77		0.61				0.41		0.75 0.125	0.87 0.125		 	0.56		0.62 0.125			0.75 0.125	-	1.02 0.125
TOWN T TOWNS TO THE	· ·				V.44J		V-44-2	V.44J	V-11.7	V.44J	V-14-7			V-44-J		V-44-J	V.44-J	V.44.5		V-44-3		U. 44.7	V-44-7		J. 86-J		

The Water Framework Directive (Priority Subdances and Classification) Regulations(Northern Instand) 2015 Freshwater.
 The Nature Framework Directive (Priority Subdances and Classification) Regulations(Northern Instand) 2015 Transitional water.
 The Nature Framework Directive (Priority Subdances and Classification) Regulations (Northern Instand) 2015 Transitional water.
 The Nature of Water (Instander) Annual Priority (Northern Instander) (Northern Insta

MAC. - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of custrection.

Note:

Note: 1-Collocourabile derived via the Metal Bosovaliability Assessment Tool (M-BAT) developed by WDTAG. Look at receptor specific assessment using the M-BAT) developed by WDTAG. Look at receptor specific assessment using the M-BAT (accordance) from the Matter of the Matter

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																					
HEAVY METALS Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		07/02/2019	11/02/2019 27/03/2019 0.46	28/03/2019 0.27	11/04/2019 0.36	29/04/2019	21/05/2019 22/05/2019 0.33	19/06/2019	20/06/2019 0.47	04/07/2019 05/07/2 0.38	019 07/08/2019	08/08/2019 0.56	03/09/2019 10	09/2019 11/09/2 0.59	17/09/2	24/09/2019	02/10/2019	09/10/2019	15/10/2019 0.52	05/11/2019	12/11/2019	20/11/2019 26/11/2019
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l	_		0.46	0.025			0.33		0.025	0.32		0.025		0.025				_	0.025	0.025		
Chromium (diss.filt)	50 (5)			0.250	0.250	0.250		0.250		0.250	0.25)	0.250		0.250					0.250	0.250		
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94		2.462	1.260	1.810		0.927		2.011	1.60		2.297		2.201					2.440	1.698		
Iron (diss.) Mercury (diss.filt)	1000 (AA) (182) 0.07 MAC (182)			398	254	432		99		647	239		814		888					760	868		
Manganese (diss.filt)	123 (AA) (*** 700**)	276.92		0.0025 38.64461391	47 75854345	0.0025 36		0.0025 35.56090905		0.0025 29.87483353	0.002		0.0025	+	0.002 50.0511			_		0.0025 50	0.0025 45.9080274		
	70 (8) ?																						
Nickel (diss.filt)	4 ^(max max a) (AA) (1), 8.6 (AA) (2), 34 (MAC) (1&2)	14.98		1.22	1.01	1.06		0.85		1.29	1.02		1.59		1.70					1.72	1.53		
Lead (diss.filt)	1.2(MAC) (18.2)	9.64		0.29633668	0.125	0.125		0.125		0.125	0.12		0.125		0.25307	84				0.125	0.125		
Antimony (diss.fit) Selenium (diss.fit)	10/5	10		0.23	0.35	0.39		0.30		0.33	0.36		0.42	+	0.42		_			0.42	0.36		
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (************************************	10 37.15		4.07	2.04	2.10		0.50		2.21	1.11		2.14		3.36					2.91	2.36		
Iron (Total)																							
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)			0.25	0.35	0.25		0.35		0.25	0.25		0.35		0.25					0.35	0.25		
Chromium VI (diss.fit)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th*sile) (2)	_		0.025	0.025	0.025		0.025		0.025	0.02		0.025		0.025	_			_	0.025	0.025		
Aluminium (diss.filt)				50	50	50		50		50	50		50		50					50	50		
Vanadium (diss.filt)				0.327	0.098	0.133		0.063		0.203			0.247		0.252				1	0.222	0.195		
Phenois Phenois, Total	ug/l 7.7 (182) 46 (95th%ile) (182)								22.50		22 50			22.50	2 50	72 EA	22.50	22 SO			22.50	22.50	22.50 22.50
Speciated TPH	ug/l								11.00					****		42.30	21.30	22.50			21.50	4400	22.30
Aliphatics EC CS-C6	15000 (7)																						
EC-C5-C6 EC>C6-C8	15000 (7) 15000 (7)										10	10 12.5		10 12.5	10	10	10 12.5				10	10 12.5	10 10 12.5 12.5
EC>C8-C10	300 (7)	_			l	f -	1 -		1		7.5	7.5	+		7.5	7.5		+	1	1	7.5	7.5	7.5 7.5
EC>C10-C12	300 (7)										5										5	5	5 5
EC>C12-C16 EC>C16-C21	300 (7)										5										5		
EC>C16-C21											5					_					5	5	5 5 5 5
EC>C35-C44											5										5	5	5 5
Aromatics FC CS-C7																							
EC CS-C7 EC>C7-C8	10 (7) 700 (7)										1	1		2.5	1	1	2.5				1	2.5	1 1 2.5 2.5
EC>C8-C10	300 (7)	_									2.5	2.5		- 25	2.5	2.5	25		_		2.5	2.5	2.5 2.5
FC>C10-C12	90 (7)										5										5	5	5 5
EC>C12-C16	90 (7)										5										5		
EC>C16-C21 EC>C21-C35	90 (7)										5					_					5	5	5 5 5 5
	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)										0.50	0.50		0.50	0.50	0.50	0.50				0.50	0.50	0.50 0.50
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)										0.50	0.50		0.50	0.50 0.50	0.50	0.50				0.50	0.50	0.50 0.50
Ethylbenzene	300 (8)										0.50	0.50				0.50	0.50				0.50	0.50	0.50 0.50
p/m-Xylene o-Xylene		_									1.00 0.50	1.00 0.50		1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50				1.00 0.50	1.00 0.50	1.00 1.00 0.50 0.50
Sum of detected Xvlenes	500 (8)										1.50	1.50		1.50	1.50	1.50	1.50				1.50	1.50	1.50 1.50
Polyaromatic Hydrocabons	μg/l								0.003		0.003			0.003			0.003					0.009	0.038 0.047
Naphthalene (ag)	2 (AA) (1 &2) 130 (MAC 1&2)								0.003		0.003				0.003	0.003		0.003			0.014	0.009	0.038 0.047 0.004 0.008
Acenaphthylene (aq) Acenaphthene (aq)									0.002		0.001				0.001	0.002		0.001			0.003	0.003	0.007 0.011
Fluorene (aq)	•								0.002		0.001			0.001	0.001	0.002		0.001			0.002	0.003	
Phenanthrene (aq) Anthracene (aq)	0.1 (AA & MAC) (1 & 2)								0.002		0.002 0.001				0.004	0.005		0.006			0.006	0.012	0.016 0.025 0.001 0.001
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)								0.001		0.001			0.004	0.001		0.001	0.001			0.001	0.010	0.005 0.005
Pyrene (aq)									0.001		0.001			0.002	0.001	0.001	0.001	0.001			0.003	0.007	0.004 0.005
Benzo(a)anthracene (aq)		-1				1	-		0.001	1	0.001		1 -	0.001	0.001	0.001		0.001	1		0.001	0.002	0.001 0.001
Chrysene (aq) Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)				l	 	+		0.001	1	0.001 0.003	-	+	0.001	0.001	0.001	0.001	0.001	+	 	0.001	0.003	0.001 0.001 0.001 0.001
Benzo(k)fluoranthene (aq)	0.017 (MAC) (182)								0.002		0.003			0.001	0.001	0.001	0.001	0.001			0.001	0.001	0.001 0.001
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))								0.003		0.003				0.001		0.001	0.001			0.001	0.001	0.001 0.001
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq)	<u> </u>								0.003		0.002			0.001	0.001	0.001	0.001	0.001			0.001	0.002	0.001 0.001
Benzo(g.h.i)pervlene (ag)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)								0.002		0.005 0.002			0.002 0.002	0.002	0.002	0.002	0.002			0.002	0.002	0.002 0.002 0.002 0.002
INORGANICS	mg/l																						
Dissolved Organic Carbon	6 - 9 (2&4)		10.1 7.2	5 7.5		-	8.7 7.5	4.4 7.6	10.6 7.7		4.5 7.9	14.8	+		7.6		_	+	+	10 7.6	9.6 7.5		
pH Alkalinity (Total)			29	62		!	54	7.0 85	55	1	7.9 86	65	+	+ +	7.8 54	_	_	+	+	60	60		
Chloride	250 (5)		17	20			18	19	15		20	16			15					17	17		
Ammoniacal Nitrogen			0.08	0.02			0.02	0.02	0.05		0.02	0.02			0.02					0.15	0.02		
Nitrite Nitrate	50/5)		0.007	0.0025	 	 	0.005	0.008	0.008		0.007	0.01	+	-	1.006		_	+	+	0.009	0.007 1.02		
Sulphate	50 (5) 250 (5)	1	0.07	5.97	10.20	9.23	0.70	10.40	0.70	8.93	10.6		8.56	1	9.15			1	1	9.41	9.03		
Sulphide			_	0.005	0.005			0.005		0.005			0.005		0.003						0.005		
Calcium Potassium				12.82 2.36	26.58	23.90 1.81		32.30 2.12	 	22.26 1.58	34.2		24.81 2.20	+	22.98			_	1	25.60	24.58 2.22		
Magnesium		_		2.36 2.36	4.42		t t	2.12 5.93	+	1.58 4.12	2.31		4.75		2.01 3.96		_	+	+	3.01 4.42	4.28		
Sodium	200(5)			10.31	12.76	12.30		12.90		10.62	13.2)	10.96		10.39					11.70	11.19		
Biochemical Oxygen Demand	1		2.4	1.0			1.0	1.0	1.0		2.2	1.0			1.0			_		1.0 29	1.0		
Chemical Oxygen Demand Conductivity			37 136	229		 	22 195	10 260	30 190	1	10 268	37 205	+		35 192	_	_	+	+	29 206	25 211		
Total Oxidisable Nitrogen Total Phosphorus			0.85	1.06			0.76	0.99	0.77		0.99	0.93			1.15				<u> </u>	1.18	1.03		
Total Phosphorus			0.125	0.125		1	0.125	0.125	0.125		0.125	0.125	1		0.125		T	1	1	0.125	0.125		

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Inclined) 2015 Freehwater.

2. The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Inclined) 2015 Freehwater.

2. The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern Inclined) 2015 Transitional safetirs.

2. The Water Framework Directive (Priority Substances and Cassification) Regulation (Section) (Priority Substances) (Priority Substances)

2. Substances (Priority Substances) (Priority Substances) (Priority Substances)

3. WHO Directive (Priority Substances) (Priority Substan

MAC. This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-COS). Where the MAC-EOS are marked as "not applicable", the AA-EOS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of cut

Note: 1

Note: 1-Coolinary labeled enrised us the Metal Biopavailability Assessment Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool in the Metal Biopavailability Assessment Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool in the Metal Biopavailability Assessment Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool in the Metal Biopavailability Assessment Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) deve

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																						SW6		
HEAVY METALS	pg/I	03/12/20	9 11/12/2019	16/12/2019	30/12/2019	06/01/2020	07/01/2020	15/01/2020	22/01/2020	27/01/2020	05/02/2020	11/02/2020	19/02/2020	26/02/2020	03/03/2020	11/03/2020	18/03/2020	30/06/2020	07/07/2020	15/07/2020	21/07/2020	28/07/2020	04/08/2020	10/08/2020	18/08/2020 24	/08/2020
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)					0.38			0.35		,,		.,,	0.37			0.33							0.57		
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l					0.025			0.025					0.025			0.025							0.025		
Chromium (diss.filt) Copper (diss.filt)	50 (5)	34.94		-		0.250			0.125					0.125			0.125							0.290		
Iron (diss.)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (18.2)	34.54				495			460					343			422							956		
Mercury (diss.filt)	0.07 MAC (182)					0.0025			0.0025					0.0025			0.0025							0.0025		
Manganese (diss.filt) Molybdenum (diss.filt)	123 (AA) (*** *****************************	276.92				43.09512415			50.34239967					80.74442549			47.00128738							43.39954053		
Nickel (diss.fit)	4 (MΔC) (1), 8 6 (ΔΔ) (2), 34 (MΔC) (182)	14.98		-		1.24			1.29					1.35			1.10							1.70		-
Lead (diss.filt)	1.2(MAC) (1AA) (1), 1.3 (AA) (2), 14 (MAC) (1&2)	9.64				0.125			0.125					0.125			0.205							0.180939332		
Antimony (diss.filt) Selenium (diss.filt)	5 (5) 10(5)	10				0.30			0.37					0.27			0.10							0.10		
Zinc (diss.fit)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC	37.15		-		2.72			1.89					4.91			3.85							2.31		
Iron (Total)																										
Manganese (Total) Chromium III (diss filt)	4.7 (AA) (1) 95th%ile (32)					0.25																		0.29		
Chromium III (diss.riit)	4.7 (AA) (1) 95th1sie (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th1sile) (2)			-		0.25																		0.025		-
Aluminium (diss.filt)	, , , , , , , , , , , , , , , , , , , ,					50			50					50			50							50		
Vanadium (diss.filt)						0.162			0.125					0.204			0.202							0.222		
Phenols Phenols, Total	ug/l 7.7 (182) 46 (95th%ile) (182)	77 50	22.50	22.50	22.50		22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50									
Speciated TDH	ug/I	22.30	22.00	11	22		44	44.30	11.00		**-20	11.00	44.50	44	44.50	21.50	44.50									
Aliphatics EC CS-C6	15000 (7)																									
	15000 (7) 15000 (7)	10 12.5	10 12.5	10	10 12.5	1	10 12.5	10 12.5	10 12.5	10 12.5	10	10	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5		10 12.5
EC>C6-C8 EC>C8-C10	300 (7)	7.5	7.5	7.5	7.5		7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
EC>C10-C12	300 (7)	5	5	5	5			5	5	5	5	5	5	5	5	5	5									
EC>C12-C16 EC>C16-C21	300 (7)	-	-		5			5	5	5				5	5	-	5									
EC>C21-C35		5	5	5	5			5	5	5	5	5	5	5	5	5	5									
EC>C35-C44		5	5	5	5			5	5	5	5	5	5	5	5	5	5									
Aromatics FC CS-C7	10 (7)		1	-	1			1	- 1	-				1	1	1	4			1					1	
	700 (7)	2.5	2.5	2.5	2.5		2.5	2.5	2.5	2.5	2.5	1 75	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5		2.5
EC>C7-C8 EC>C8-C10	300 (7)	2.3		2.3			2.3				2.5	- 23	2.3				2.5	- 23	2.3	2.3	2.5	- 23	2.3	2.3	2.3	2.3
EC>C10-C12	90 (7)	5	5	5	5			5	5	5	5	5	5	5	5	5	5									
EC>C12-C16 EC>C16-C21	90 (7) 90 (7)	-			_			5	5	5				_	5	5										
EC>C21-C35	90 (7)	5	5	5	5			5	5	5	5	5	5	5	5	5	5									
Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)	0.50	0.50	0.50	0.50		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50		0.50
Toluene Ethylbenzene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2) 300 (8)	0.50	0.50	0.50	0.50		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50 0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
p/m-Xylene	300 (6)	0.50 1.00	0.50 1.00	0.50 1.00	1.00		0.50 1.00	0.50 1.00	1.00	1.00	1.00	0.50 1.00	0.50 1.00	0.50 1.00	0.50 1.00	0.50 1.00	1.00	1.00	1.00	0.50 1.00	0.50 1.00	1.00	0.50 1.00	0.50 1.00	0.50 1.00	1.00
o-Xylene		0.50	0.50	0.50	0.50		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Sum of detected Xylenes Polyaromatic Hydrocabons	500 (8) µg/l	1.50	1.50	1.50	1.50		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Naphthalene (ag)	2 (AA) (1 &2) 130 (MAC 1&2)	0.028		0.082			0.019	0.011	0.003	0.006	0.003	0.003	0.003	0.003	0.003	0.003	0.008									
Acenaphthylene (aq)		0.001		0.012			0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001									
Acenaphthene (aq) Fluorene (aq)	•	0.008 0.010		0.010			0.006	0.004	0.002	0.002	0.001	0.001	0.001	0.001	0.002	0.001	0.001									
Phenanthrene (aq)	-	0.010		0.013			0.004	0.002	0.001	0.001	0.001	0.002	0.001	0.002	0.002	0.002	0.001									
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)	0.002		0.002			0.001	0.001	0.002	0.004	0.001	0.001	0.001	0.001	0.001	0.001	0.001									
Fluoranthene (aq) Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)	0.006		0.013			0.006	0.006	0.001	0.003	0.001	0.001	0.001	0.001	0.002	0.001	0.001									
Benzo(a)anthracene (aq)	-	0.001		0.001			0.002	0.001	0.002	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.002									
Chrysene (aq)	•	0.001		0.003			0.003	0.003	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001									
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2)	0.001 0.001	_	0.003			0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	 				 	 	 		-
Benzo(k)fluoranthene (aq) Benzo(a)pyrene (aq)	0.017 (MAC) (182) 0.00017 (AA) (1 8 2) MAC (0.27 (1) 0.027 (2))	0.001		0.001			0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	 				l	l	 		-
Indeno(1,2,3-cd)pyrene (aq)		0.001		0.004			0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001									
Dibenzo(a,h)anthracene (aq) Benzo(q,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	0.002		0.002			0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002									
INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC)(2)	0.002		0.003			0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002									
Dissolved Organic Carbon							7.1		4.9					5.9			8.5							7.6		
pH Mississis (Tetal)	6 - 9 (2&4)			1		1	7.6		7.7					7.4			7.3	1						7.8		
Alkalinity (Total) Chloride	250 (5)			-			50 16		61 19					37 26			28 16							61 17		
Ammoniacal Nitrogen							0.02		0.04					0.12			0.06							0.02		
Nitrite	FA (F)						0.009		800.0					0.007			0.005							0.008		
Nitrate Sulphate	50 (5) 250 (5)		+	+		6.07	0.95		1.49 9.96					1.05 8.90	l		0.65 5.18	f						0.96 10.01		
Sulphide	250(5)		1			0.01			7.70					0.50	l		3.20					l	l	10.01		-
Calcium						17.03			26.78					20.64			13.25							26.87		=
Potassium Magnacium			_	1		1.58 3.00			2.38 4.57	 				2.79 3.36	 	 	2.43	 				 	 	2.27 4.70		$\overline{}$
Magnesium Sodium	200(5)			+		3.00 8.61			12.31					3.3b 17.59	l		9.97	 				l	l	12.08		-
Biochemical Oxygen Demand	1.00						1.0		1.0 10					1.0			1.0							1.0 27		
Chemical Oxygen Demand				1			21 184	-	10 221					10 191			26 131	I T						27 215		
Conductivity Total Oxidisable Nitrogen				 			184 0.96		221 1.5					191			0.65							215 0.97		
Total Oxidisable Ntrogen Total Phosphorus			-	1			0.125		0.125					0.125	l		0.125					l	l	0.125		$\overline{}$

The Water Famework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Famework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Famework Directive (Priority Substances and Classification) Regulation (Northern Ireland) 2015 Transitional waters.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS), Where the MAC-EQS are marked as "not applicable", the AH-EQS values are considered protective against short-term pollution-peaks in continuous discharges since they are significantly lower than the values defined on the based accustocytes.

Note: CODDonatable derived us the Metal Boardability Assessment Tool (M-BAT) developed by WTDTAL Look at recogator specific assessment using the M-DAT (M-DAT) and the Metal Boardability Assessment Tool (M-BAT) developed by WTDTAL Look at recogator specific assessment using the M-DAT (M-DAT) and the Metal Boardability Assessment Tool (M-BAT) developed by WTDTAL Look at recogator specific assessment using the M-DAT tool winds Jou Cana Can Look and the Metal Boardability Assessment Tool (M-BAT) developed by WTDTAL Look at recogator specific assessment using the M-DAT tool winds Jou Cana Cana Look and L

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																									
HEAVY METALS	μg/l		02/09/2020	07/09/2020	24/09/2020	01/10/2020	06/10/2020	12/10/2020	20/10/2020	27/10/2020	02/11/2020	10/11/2020	17/11/2020	26/11/2020	01/12/2020	14/12/2020	21/12/2020 06	(01/2021 11/	1/2021 21/01	/2021 25/0	01/2021 03/02/2021	16/02/2021	04/02/2021	00/02/2021	19/02/2021	25/02/2021	20/02/2021
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		03)03)1010	0.57	14/05/1010	01/10/1010	00)10)1010	0.59	10/10/1010	17/10/1010	01/11/1010	0.46	17/11/1010	10/11/1010	0.44	14/11/1010	11/11/1010 03	01/1011 11/	.36	1011 13/0	0.40	10,01,1011	04)03)1011	0.28	10/03/1011	23/03/2021	30/03/2022
Cadmium (diss.fit)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l			0.025				0.025				0.025			0.025				025		0.025			0.025			
Chromium (diss.filt)	50 (5)			0.337				4.730				0.125			0.283				125		0.262			0.125			
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (1&2)	34.94		1.935				2.950				1.685			1.615				288		1.722			1.030			
Iron (diss.) Mercury (diss.filt)	1000 (AA) (182) 0.07 MAC (182)							780							566				116		503			251			
Manganese (diss.filt)	123 (AA) (MA TOWN)	276.92		0.0025 37.48676381				0.0025				0.0025 58.3571059			0.0025 56.93089252		-		0025		0.0025 45.3722564		-	0.0025			
Molybdenum (diss.filt)	70 (8) 2			37.40070301								30.3371033			30.73007131			54.2	070233		43.3722.304			40.20302003			
Nickel (diss.filt)	4 (MAC) (1&2) (AA) (1), 8.6 (AA) (2), 34 (MAC) (1&2)	14.98		1.62				2.47				1.48			1.56				.25		1.25			1.10			
Lead (diss.filt)	1.2 (AA) (1), 1.3 (AA) (2), 14 (MAC) (1&2)	9.64		0.252664694				0.322				0.141709521			0.314811383			0.13	445283		0.25233442	1		0.025			
Antimony (diss.fit) Selenium (diss.fit)	5 (5)	10																									
Zinc (diss.fit)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (METRIC)	37.15		0.10 2.55		_		0.10 3.33			_	0.10 2.78			0.10 2.89	_			.81	_	0.23 3.86	_		0.10 2.44	_		
Iron (Total)	10.5 (AA) (1) TADO DIGUTANIADIO CO (AA) (2) TADO	07.10		2.33				3.33				2.76			2.09				.01	_	3.00			2.44			
Manganese (Total) Chromium III (diss.fit)																											
	4.7 (AA) (1) 95th%ile (32)			0.26				4.73				0.13			0.26				113		0.26			0.13			
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)			0.073				0.025				0.025			0.025				125		0.025			0.025			
Aluminium (diss.filt)				50				108.8482611				50			50				50		50			50			
Vanadium (diss.filt)	ug/l			0.279				0.323				0.194			0.188				157		0.245			0.088			
	7.7 (1&2) 46 (95th%ile) (1&2)				22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	2.50 77	50 7	22.50 22.50	22.50	22.50	22.50	22.50	22.50	22.50
Phenols, Total Speciated TPH	ug/I																										
Aliphatics																											
EC CS-C6	15000 (7)		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10 1		10 10	10	10	10	10	10	10
EC>-C6-C8	15000 (7) 300 (7)		12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	2.5 12 7.5 7.		12.5 12.5 7.5 7.5		12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5
EC>C8-C10 EC>C10-C12	300 (7)		7.3	7.5	7.3	7.3	7.5	13	7.5	7.3	7.5	7.3	7.3	7.3	7.3	7.3	7.3	7.3	/.3 /.	3	7.3 7.3	7.3	/.5	/3	7.3	7.3	7.3
EC>C12-C16	300 (7)																										
EC>C16-C21																											
EC>C21-C35																											
EC>C35-C44																											
Aromatics FC CS-C7	10 (7)						1		1	1	1	- 1	- 1	1	- 1		1	1	1 .	_		-		-			-
EC-07-08	700 (7)		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5		2.5	2.5	2.5	2.5				5	2.5 2.5	2.5	2.5	2.5	2.5	2.5	2.5
EC>O8-C10	300 (7)			2.3	2.3		2.3	2.0	2.3	4.3	2.3			2.3		2		A.J			2.7		2.3	2.3	2		
EC>C10-C12	90 (7)																										
EC>C12-C16	90 (7)																										
EC>C16-C21	90 (7)																										
EC>C21-C35	90 (7) 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	50 0	o 0	0.50 0.50	0.50	0.50	0.50	0.50	0.50	0.50
Benzene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50			150 0.1		0.50 0.50	0.50	0.50	0.50		0.50	0.50
Toluene Ethylbenzene	300 (8)		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50		0.50	0.50	0.50	0.50					0.50 0.50		0.50	0.50	0.50 0.50	0.50	0.50
p/m-Xylene			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.00 1.0	00 :	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00
o-Xylene			0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50		0.50	0.50	0.50	0.50	0.50	0.50	.50 0.	i0 (0.50 0.50			0.50	0.50	0.50	0.50
Sum of detected Xylenes Polyaromatic Hydrocabons	500 (8)		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	.50 1	0 :	1.50 1.50	1.50	1.50	1.50	1.50	1.50	1.50
Naphthalene (aq)	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)						0.006	0.003		0.002	0.020	0.006	0.000	0.002	0.066	0.002	0.003	0.010	011 0.0	03 0	0.026 0.039	0.012	0.049	0.002	0.006	0.091	0.002
Acenaphthylene (aq)	2 (M) (1 U2) 130 (FMC 1U2)						0.003	0.003		0.001	0.002	0.001	0.001	0.001	0.004	0.001	0.001	0.002 0	002 0.0	04 0	0.002	0.002	0.005	0.001	0.002	0.001	0.001
Acenaphthene (aq)	,						0.001	0.002		0.001	0.006	0.002	0.002	0.001	0.008	0.001	0.001	0.003	0.0	02 0	0.003	0.003	0.011	0.003	0.003	0.005	0.001
Fluorene (aq)	-						0.001	0.005		0.001	0.005		0.002	0.001	0.007	0.001	0.001				0.004 0.003			0.002	0.001		
Phenanthrene (ag)	0.1 (AA & MAC) (1 & 2)						0.005	0.005		0.004	0.014			0.002	0.015	0.004					0.007 0.007		0.002	0.002	0.002		
Anthracene (aq) Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)						0.001	0.001		0.001	0.001	0.001	0.001	0.001	0.019	0.001			001 0.0		0.001 0.001	0.001	0.001	0.001	0.001	0.001	0.001
Pyrene (aq)	0.0003 (AA) (1 & 2) 0.12 (MAC 1)						0.003	0.002		0.002	0.008	0.003	0.003	0.001	0.006	0.001					0.002 0.004	0.001	0.001	0.003	0.001	0.001	0.001
Benzo(a)anthracene (aq)	-						0.001	0.001		0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.0	02 0	0.001 0.001	0.001	0.003	0.001	0.001	0.001	0.001
Chrysene (aq)							0.003	0.001		0.001	0.004			0.001	0.002	0.001			002 0.0		0.001 0.002	0.001	0.001	0.002	0.002	0.001	0.001
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2) 0.0017 (MA) (1&2) 0.00017 (AA) (1&2) MAC (0.27 (1) 0.027 (2))	-	-	-	1		0.002	0.001		0.001	0.004	0.001	0.001	0.001	0.001	0.001			002 0.0	02 0	0.001 0.002	0.001	0.001	0.001	0.001	0.001	0.001
Benzo(k)fluoranthene (aq)	0.017 (MAC) (162) 0.00017 (AA) (1.8.2) MAC (0.27 (1) 0.027 (2))		 	-	-	 	0.001	0.001		0.001	0.002	0.001	0.001	0.001	0.001	0.001			003 0.0	01 0	0.001 0.001	0.001	0.001	0.001	0.001	0.001	0.001
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	3,00027 (AN) (2 M 2) PAG (0127 (2) 01027 (2))		l			t	0.001	0.001		0.001	0.001	0.001	0.001	0.001	0.001	0.001			005 0.0		0.001 0.005	0.001	0.001	0.001	0.001	0.001	0.001
Dibenzo(a,h)anthracene (aq)	-					1	0.003			0.002	0.002	0.002	0.002	0.002	0.002		0.002	0.002 C	002 0.0 004 0.0		0.002 0.002 0.002 0.004	0.002	0.002	0.002	0.002	0.002	0.002
Benzo(q,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)						0.002	0.002		0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.0	03 0	0.002 0.004	0.002	0.002	0.002	0.002	0.002	0.002
INORGANICS	mg/l																										
Dissolved Organic Carbon	6 - 9 (2&4)		 	10.4	-	 	-	13.1 7.5			 	8.2 7.5	-		7.1 7.5	 			R.3 7.5		12.5 7.3	+	1	4.9	-		
pH Alkalinity (Total)	0-9 (2014)	_		55	-	-	-	43			-	7.5 54	-		7.5 56	-	_		7.5 45	_	7.3	+	+	7.7	-		
Chloride	250 (5)	_		14				18				20			22				20		12		1	19			
Ammoniacal Nitrogen				0.02		1		0.02			1	0.02			0.02	1			.05		0.06			0.02			
Nitrite				0.009				0.008				0.009			800.0				011		0.01			0.009			
Nitrate	50 (5) 250 (5)			0.87				0.67				1.11			1.22				.04		0.62	_	_	0.74			
Sulphate	250 (5)	_		8.36		-		7.27			-	8.66	_		8.61	-			.35		5.09	+	-	10.09			
Sulphide Calcium		_		22.60	-	-	-	18.93			-	22.91	-		23.50	-			9.65		13.25	+	+	29.18	-		
Potassium		_	l	22.60		t		2.34			t	2291			2.30	t			.02		13.25	1	1	29.18	1	1	
Magnesium				3.82		1		3.21			1	3.82			3.86	1			.38		2.20			4.92			
Sodium	200(5)			9.85				9.46				10.95			11.08				2.27		8.58			12.53			
Biochemical Oxygen Demand	· · · · · · · · · · · · · · · · · · ·			2.2				1.0				1.0			1.0				1.0		2.5			1.5			
Chemical Oxygen Demand	<u> </u>	-	-	26 183	1		1	36 155				21 196			19				16	_	26 128	+	1	237	1		
Conductivity Total Oxidisable Nitrogen		_		0.88	-	-	-	0.68			-	112	-		198	-			.05		0.63	+	+	0.75	-		
Total Oxidisable Nitrogen Total Phosphorus		_	l	0.125		t		0.125			t	0.125			0.125	t			125		0.125	1	1	0.75	1	1	
Taken Triangerian and																			•		,						

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Inclined) 2015 Freehwater.

2. The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Inclined) 2015 Freehwater.

2. The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern Inclined) 2015 Transitional safetirs.

2. The Water Framework Directive (Priority Substances and Cassification) Regulation (Section) (Priority Substances) (Priority Substances)

2. Substances (Priority Substances) (Priority Substances) (Priority Substances)

3. WHO Directive (Priority Substances) (Priority Substan

MAC. This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-COS). Where the MAC-EOS are marked as "not applicable", the AA-EOS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of cut

Note: 1

Note: 1-Coolinary labeled enrised us the Metal Biopavailability Assessment Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool in the Metal Biopavailability Assessment Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool in the Metal Biopavailability Assessment Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool in the Metal Biopavailability Assessment Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) developed by WFDT AC. Look is receptor specific assessment using the M. Tool (M. BAT) deve

Sample Point /	TSV	MBAT PNEC																								
Determinands	139	(ug/l)																								
HEAVY METALS	μg/l		07/04/2021	14/04/2021 20/04/20	21 21/04/2021	27/04/2021	04/05/2021	11/05/2021	18/05/2021	26/05/2021	02/06/2021	10/06/2021	15/06/2021	23/06/2021	29/06/2021	05/07/2021	15/07/2021	21/07/2021	29/07/2021	05/08/2021	11/08/2021	17/08/2021	25/08/2021	02/09/2021	08/09/2021	16/09/2021
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)				0.36			0.37						0.32				0.38		0.63						
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l				0.025			0.025						0.025				0.025		0.025						
Chromium (diss.filt)	50 (5)				0.125			0.125						0.125				0.125		0.306						
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94			1.150 404			1.446						0.818 193				0.768 80		2.414 600						
Iron (diss.) Mercury (diss.filt)	0.07 MAC (182)				0.0025		_	0.0025						0.0025				0.0025		0.0025						
Manganese (diss.filt)	123 (AA) (*********************************	276.92		 	37.56275792			27.77853043				-		41.55992811				65.34307399		12.5						
	70 (8) 2																									
Nickel (diss.filt)	4 (AA) (1), 8.6 (AA) (2), 34 (MAC) (1&2)	14.98			1.26			0.99						0.93				0.91		1.61						
Lead (diss.filt)	1.2 ^(MA 7000 5) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64			0.068615619			0.133354685						0.025				0.025		0.296160966						
Antimony (diss.filt) Selenium (diss.filt)	10/5)	10			0.10			0.10						0.10				0.10		0.10						
Zinc (diss.filt)	10.9 (AA) (1) +ABC bloavailable 6.8 (AA) (2) +ABC (**** *******************************	37.15		 	1.93			2.13				-		1.00				0.25		2.17						
Iron (Total)																										
Manganese (Total)																										
Chromium III (diss.filt) Chromium VI (diss.filt)	4.7 (AA) (1) 95th1die (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th1die) (2)				0.13			0.13						0.13				0.13		0.30						
Aluminium (diss.filt)	3.4 (AA) (1), 0.0 (AA) (2), 32 (95th site) (2)				0.128			0.111 50						0.025				0.025 50		0.025						
Vanadium (diss.filt)		1	1		50 0.099		1	0.194			1			0.062		l		0.025	1	50 0.276		1				
Phenois	ug/l																									
Phenols, Total	7.7 (1&2) 46 (95th%ile) (1&2)		22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50
Speciated TPH Aliphatics	ug/l																									
Aliphatics EC C5-C6	15000 (7)	+	- 10	40	- 10	10	***	40	40	40	10	10	10	10	10	40	40	40	10	40	10	10	- 10	10	10	- 40
EC>C6-C8	15000 (7)		12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	10 12.5
EC>C8-C10	300 (7)		7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
EC>C10-C12	300 (7)			5																						
EC>C12-C16 EC>C16-C21	300 (7)																									
FC-C1-C35				5																						
EC-C35-C44				5																						
Aromatics EC CS-C7	10 (7)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EC>C7-08	700 (7)		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
EC>C8-C10 EC>C10-C12	300 (7)			5																						
EC>C10-C12 EC>C12-C16	90 (7)			5																						
EC-C16-C21	90 (7)	-		ς.																						
EC>C21-C35	90 (7)			5																						
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Toluene	74 (AA) 95th%ile (380) (1), 74 (AÁ) 95th%ile (370) (2)		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Ethylbenzene p/m-Xvlene	300 (8)		0.50 1.00	0.50 1.00	0.50 1.00	0.50 1.00	0.50	0.50 1.00	0.50 1.00	0.50 1.00	0.50	0.50 1.00	0.50 1.00	0.50 1.00	0.50	0.50 1.00	0.50	0.50	0.50	0.50 1.00	0.50 1.00	0.50	0.50 1.00	0.50	0.50 1.00	0.50
o-Xylene			0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.00 0.50	0.50	0.50
Sum of detected Xvienes	500 (8)		1.50	1.50	1.50	1.50	1.50		1.50	1.50		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50		1.50	1.50	1.50
Polyaromatic Hydrocabons	μg/l																									
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)			0.020 0.001	0.188	0.009	0.133				0.017 0.002		0.003	0.003					0.003		0.008			0.009		0.003
Acenaphthylene (aq)	· · · · · · · · · · · · · · · · · · ·		0.001	0.001	0.005	0.001	0.003	0.001	0.001	0.008	0.002	0.002	0.004	0.001	0.003		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001
Acenaphthene (aq) Fluorene (aq)	<u> </u>		0.001	0.007	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.002
Phenanthrene (aq)			0.002		0.002	0.005	0.002	0.002	0.002	0.010	0.002	0.005	0.002	0.005	0.002		0.005	0.002	0.002	0.002	0.002	0.002		0.004		0.002
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.001
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)	1	0.001	0.001	0.007	0.003	0.003	0.001	0.003	0.007	0.001	0.001	0.001	0.001	0.001		0.001	0.001	0.001	0.004	0.001	0.001	0.001	0.004	0.001	0.001
Pyrene (aq) Benzo(a)anthracene (aq)		+	0.001	0.001	0.006	0.002	0.002	0.001	0.003	0.005	0.001	0.001	0.001	0.001	0.001		0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.001	0.001
Chrysene (aq)	-	+	0.001	0.001	0.002	0.004	0.001	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.001	l	0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Benzo(b)fluoranthene (aq)	0.017 (MAC) (182) 0.017 (MAC) (182)		0.001	0.001	0.003	0.005	0.001	0.004	0.002	0.003	0.001	0.001	0.001	0.001	0.001		0.001	0.001	0.002	0.001	0.002	0.001	0.001	0.002	0.001	0.001
Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2)		0.001	0.001	0.002	0.006	0.001	0.005	0.001	0.002	0.001	0.001	0.001	0.001	0.001		0.001	0.001	0.003	0.002	0.003	0.001	0.001	0.002	0.001	0.001
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	1	0.001	0.001	0.002	0.007	0.001	0.007	0.001	0.001	0.001	0.001	0.001	0.001	0.001		0.001	0.001	0.005	0.001	0.005	0.001	0.001	0.001	0.001	0.001
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a h)anthracene (aq)	<u> </u>	1	0.001	0.001	0.001	0.004	0.001	0.006	0.001	0.002	0.001	0.001	0.001	0.001	0.001		0.001	0.001	0.003	0.001	0.004	0.001	0.001		0.001	0.001
Benzo(g.h.i)pervlene (ag)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	+		0.002	0.002						0.002			0.002	0.002			0.002			0.002			0.002		0.002
INORGANICS	mg/l																7									
Dissolved Organic Carbon				10.2				9.2						4.7												
pH	6 - 9 (2&4)			7.7			-	7.8						7.8		l		7.9		7.6						
Alkalinity (Total) Chloride	250 (5)	+		65			-	43						84 18				97 19		46 14						
Ammoniacal Nitrogen	230 (3)	t		0.02			t	0.02						0.02		l		0.02		0.06			l			
Nitrite		1	1	0.005			1	0.005			1			0.006		l		0.009	1	0.016		1				
Nitrate	50 (5) 250 (5)			0.91				0.45						0.89				0.81		0.69						
Sulphate	250 (5)				7.10			6.90						10.57				10.46		8.61						
Sulphide							-									l		35.20								
Calcium Potassium		-	-		20.09 1.53		 	16.41			-			31.82 1.94		 		35.20 2.36	-	15.63 1.96		-	 			
Magnesium		t			3.52		t	3.14						1.94 5.78		l		2.3b 6.43		3.11			l			
Sodium	200(5)	1	1		9.23		1	8.80			1			12.96		l		13.69	1	8.06		1				
Biochemical Oxygen Demand				1.0				1.5						1.5				1.5		2.8						
Chemical Oxygen Demand	1			15				29						15				12		52						
Conductivity Total Oxidinable Nitrogen		 	-	218 0.91				150 0.45			-			257 0.9				294 0.82		168 0.71		-				
Total Oxidisable Nitrogen Total Phosphorus	1	1	 	0.91			-	0.45			 	H		0.9		l		0.82	 	0.71		 	l			
TOTAL TROUBLINGS	1			0.125										0.123				0.443						-		

The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern Instand) 2015 Feedwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern Instand) 2015 Feedwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern Instand) 2015 Transitional waters.
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MAC. - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC CQ). Where the MAC EQ are marked as "not applicable", "the AA EQS where are considered protective against short term pollution-peaks in continuous discharges since they are significantly lower than the values derived on the sound caused recordance."

Note: 4 College of the Media Security of the Media Security Security of the Media Security Se

Sample Point /		MBAT PNEC																										
Determinands	TSV	(ug/l)																										
HEAVY METALS	μg/l		23/09/2021	30/09/2021	05/10/2021	12/10/2021	20/10/2021	27/10/2021	02/11/2021	09/11/2021	17/11/2021	24/11/2021	29/11/2021	07/12/2021	08/12/2021	14/12/2021	20/12/2021	06/01/2022 1	10/01/2022	20/01/2022	24/01/2022	02/02/2022	08/02/2022	14/02/2022	21/02/2022	22/02/2022	01/03/2022	08/03/2022
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2) 0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l		0.55				0.65					0.52			0.49						0.32					0.38		
Cadmium (diss.filt) Chromium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/1	-	0.025		-		0.025					0.025		-	0.025						0.025 0.125				-	0.025 0.125		
Copper (diss.filt)	1 (AA) bigavailable (see Note 1) (1) (see Note 4) (2)	34.94	1.232				3.412					1.597			2.142						1.144					1.803		
Iron (diss.)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (1&2)	54.54	878				1106					1082			398						416					239		
Mercury (diss.filt)	0.07 MAC (1&2)		0.0025				0.006833936					0.0025			0.0025						0.0025					0.0025		
Manganese (diss.filt)	123 (AA) (*** *****************************	276.92	28.58910791				39.40485843					38.74661982			39.59551609						45.83831465					39.04963824		
Molybdenum (diss.filt)	70 (8) ? 4************************************	14 00																										
Nickel (diss.filt) Lead (diss.filt)	4 (AA) (1), 8.6 (AA) (2), 34 (MAC) (182) 1.2 (MAC) (184) (1), 1.3 (AA) (2), 14 (MAC) (182)	14.98 9.64					1.81					1.47			1.24						1.15					1.12		
Antimony (diss.filt)	1.2 (AA) (1), 1.3 (AA) (2), 14 (MAC) (102)	5.04	0.090706625		-		0.477192836					0.15836176		-	0.315221021						0.025				-	0.211611445		
Selenium (diss.filt)	10(5)	10	0.10				0.23					0.10			0.10						0.10					0.10		
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (1000 1000 2)	37.15	1.01				4.77					3.46			4.47						1.47					3.39		
Iron (Total)																												
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)	1	0.13				0.36		-		1	0.25			0.27						0.13				1	0.13		
Chromium III (diss.filt) Chromium VI (diss.filt)	4.7 (AA) (1) 95th%ile (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)	1	0.13	 	1		0.36	-	 	+	 	0.25		1	0.27						0.13		-	 	1	0.13		\vdash
Aluminium (diss.filt)		1	50		1		165.2951494		1	1	1	161.8064758		1 1	50						50		1	1	1	50		
Vanadium (diss.filt)			0.184				0.357					0.217			0.329						0.104					0.227		
Phenois	ug/l																											
Phenois, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2)	1	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50		22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50		22.50	22.50
Aliphatics																_						<u> </u>						
EC CS-C6	15000 (7)	1	10	10	10	10	10	10	10	10	10	10	10	10		10	10	10	10	10	10	10	10	10	10	1	10	10
FC>C6-C8	15000 (7)		12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5		12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5		12.5	12.5
EC>C8-C10 EC>C10-C12	300 (7)		7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5		7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5		7.5	7.5
EC>C10-C12 EC>C12-C16	300 (7) 300 (7)	1	1	-	1	1		-		-	-			1									1		1	1		
FC>C16-C21	300 (7)																											
EC-C21-C35 EC-C35-C44																												
EC>C35-C44																												
Aromatics FC CS-C7																												
EC CS-C7 EC>C7-O8	10 (7) 700 (7)		1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1
EC>C8-C10	300 (7)		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5		2.5	2.5
EC>C10-C12	90 (7)																											
EC>C12-C16	90 (7)																											
EC>C16-C21	90 (7)																											
EC>C21-C35	90 (7) 10 (AA) MAC 50 (1) 8 (AA) MAC 50 (2)		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50		0.50	0.50
Benzene Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50		0.50	0.50		0.50	0.50	0.50	0.50	0.50	0.50	0.50		0.50	
Ethylbenzene	300 (8)		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50		0.50	0.50	0.50 0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50		0.50	0.50
p/m-Xylene			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
o-Xylene			0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50		0.50		0.50	0.50		0.50	0.50	0.50	0.50	0.50		0.50	0.50
Sum of detected Xylenes Polyaromatic Hydrocabons	500 (8)		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50		1.50	1.50
Naphthalene (aq)	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)		0.003	0.003	0.006	0.006	0.003	0.025				0.015	0.012	0.008		0.012	0.012	0.007	0.003	0.003	0.003	0.003	0.025	0.003			0.003	0.010
Acenaphthylene (aq)	- (-1) (-1-1)		0.001	0.001	0.001	0.001	0.001	0.001	0.057	0.001		0.002	0.002	0.001		0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			0.001	0.002
Acenaphthene (aq)			0.001	0.001	0.003	0.001	0.001	0.008	0.032	0.011		0.003	0.002	0.001		0.002	0.002		0.001	0.002	0.003	0.002	0.002	0.002			0.003	0.008
Fluorene (aq)	•		0.001	0.001		0.001	0.001	0.004	0.012	0.006		0.001	0.001	0.001		0.001				0.002	0.002	0.002	0.002	0.001			0.003	0.003
Phenanthrene (aq) Anthracene (aq)	0.1 (AA & MAC) (1 & 2)	1	0.002	0.002	0.005	0.007	0.002	0.002	0.026	0.002	 	0.005	0.006	0.005		0.004	0.002		0.002	0.004	0.002	0.004	0.005	0.006	1	-	0.069	0.010
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)	1	0.001	0.001	0.002	0.005	0.002	0.001	0.001	0.001		0.003	0.001	0.001		0.001	0.001		0.002	0.001	0.001	0.001	0.007	0.001	1		0.002	0.014
Pyrene (aq)			0.001	0.001	0.002	0.012	0.002	0.003	0.034	0.002		0.004	0.003	0.004		0.002	0.001	0.011	0.001	0.002	0.001	0.003	0.006	0.007			0.021	0.011
Benzo(a)anthracene (aq)	•		0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001		0.001	0.001	0.002		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.003	1		0.001	0.003
Chrysene (aq) Renyr(h)fil yyanthana (an)	0.017 (MAC) (182)	1	0.001	0.001	0.001	0.006	0.001	0.001	0.002 0.001	0.001	 	0.002	0.001	0.003		0.001	0.001		0.001	0.001	0.001 0.001	0.002	0.003	0.005	1	-	0.001	0.006
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2)	1	0.001	0.001	0.001	0.004	0.001	0.001	0.001	0.001	t	0.001	0.001	0.004		0.001	0.001		0.001	0.001	0.001	0.002	0.002	0.004	1		0.001	0.005
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	1	0.001	0.001	0.001	0.003	0.001	0.010	0.001	0.001	1	0.001	0.001	0.004		0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.005	1	1	0.001	0.004
Indeno(1,2,3-cd)pyrene (aq)			0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		0.001	0.001	0.006		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.005			0.001	0.004
Dibenzo(a,h)anthracene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002		0.002	0.002	0.002		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002			0.002	0.004 0.002 0.003
Benzo(q,h,i)perylene (aq) INORGANICS		1	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002		0.002	0.002	0.004		0.002	0.002	U.002	U.002	0.002	0.002	0.002	0.002	0.004			0.002	0.003
Dissolved Organic Carbon	mg/l		8.9				22.2					8.7			11.8						6.7					6.7		
pH pH	6 - 9 (2&4)	1	7.8		1		7.3		1	1	1	7.6		1 1	7.3						7.5		1	1	1	7.4		
Alkalinity (Total)			74				31					63			23						66					30		
Chloride	250 (5)		16		1		12		1			19		$\perp = $	15						18				1	31		
Ammoniacal Nitrogen			0.02		1		0.1					0.04			0.05						0.02				1	0.05		
Nitrite Nitrate	50 (5)	+	0.0025		1	-	4 96		-	-	-	0.006		-	0.0025						0.011 1.56		-	-	+	0.005		
Sulphate	50 (5) 250 (5)	1	9.54	l	1		4.96 7.57	l	t	t	t	7.35		1 - 1	5.74						10.26			t	1	7.45		
Sulphide									T .	i e	i e													i e				
Calcium			28.26				15.08					14.79			11.71						28.76					16.46		
Potassium			2.11				2.21					2.17			2.77						2.26					2.84		
Magnesium	200/5)	1	5.29 11.80	-	1	1	2.69 8.68	-		-	-	2.65 8.54		1 1	2.11						4.95 12.43		1		1	3.29 15.85		\vdash
Sodium Biochemical Oxygen Demand	200(5)	1	2.0	l	1	1	1.5			!	1	8.54 1.5		1	1.5			-			12.43		 		1	15.85		\vdash
Chemical Oxygen Demand		1	25		1		59				1	20		1 - 1	34						13				1	23		
Conductivity			230				129					219			125						234					198		
Total Oxidisable Nitrogen	-		0.57		1		5.01		1			0.98		$\perp = $	0.78						1.57				1	1.06		
Total Phosphorus		1	0.125		1	1	0.125					0.125		11	0.125						0.125		1		1	0.125		

The Water Framework Directive (Priority Substances and Casoffication) Regulations(Roothen Ireland; 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Casoffication) Regulations(Roothen Ireland; 2015 Transitional waters.
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MAC. This yearneter is the forecomment Loality Standard expressed as a maximum allowable concentration (MAC-EQS) where the MAC-EQS are marked as "not applicable", the AA-EQS subseasor considered protective against when term pollution peak in continuous discharges since they are significantly lower than the value delivers on the basis of acutetics(or).

Note:

Note: 1-Collocovalable derived via the Metal Bioavailability Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-Batt of Collocoval Colloc

		1																								
Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																								
HEAVY METALS Arsenic (diss.filt)	μη/I 50 (AA) (1) 25 (AA (2)		0.29	29/03/2022 20/07/2016	09/08/2016	27/09/2016	09/01/2017 12.50	11/01/2017		7/03/2017 19/07/20 12.50 0.44	17 20/07/201	15/08/2017	0.57	30/08/2017	31/08/2017 0.54	05/09/2017	07/09/2017	0.69	0.83	15/09/2017	0.60	0.65	22/09/2017	25/10/2017 0.51	0.42	0.45
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		0.025				5.000			5.000 0.025			0.570		0.025	0.025	0.025	0.025	0.025		0.025	0.025		0.025	0.025	0.025
Chromium (diss.filt)	50 (5)		0.125				12.500			12.500 0.125		0.125	0.125		0.125			0.125	0.125		0.268			0.252		0.125 1.990
Copper (diss.filt) Iron (diss.)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (1&2)	34.94	1.110 273				10.000 594			10.000 0.500 534 595	_	-	3.040 611		2.370 536	2.940 686	2.270 661	3.430 850	3.690 744		2.370	3.490 744		2.000 742		1.990 449
Mercury (diss.filt)	0.07 MAC (1&2)	1	0.0025				0.0025			0.0025 0.0025		+	0.0025		0.0025			0.0052	0.0056		0.0025			0.0025	423	0.0025
Manganese (diss.filt)	123 (AA) (*********************************	276.92	33.20073766				22			81 67			221		242	188	190	67	97		189	75		106	113	86
Molybdenum (diss.filt) Nickel (diss.filt)	70 (8) ? 4 ^(MB 1000 2) (AA) (1), 8.6 (AA) (2), 34 (MAC) (182)	14.98	1.01				12.50			12.50 1.11	_		1.85		1.74	1 77	160	1.01	2.07		1 79	1.74		1.59	1.47	1.61
Lead (diss.fit)	1.2(MAC (1), 0.0 (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64	0.025				12.5			12.5 0.125			0.125		0.125	0.125	0.125	0.468	0.567		0.125			0.125		0.125
Antimony (diss.filt)	5 (5)																									
Selenium (diss.filt) Zinc (diss.filt)	10(5) 10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (MR ACM 2)	10 37.15	0.10 1.45				10.00			0.25 10.00 0.50	_	0.10	0.10 2.26		0.10 2.11	0.10 3.35	0.10 1.69	0.10 3.65	0.10 4.06		0.35 3.16	0.35 4.28		0.36 2.93		0.28 5.98
Iron (Total)	10.5 (AA) (1) TADO DIOSTRIBUIO 0.0 (AA) (2) TADO	57.15	1.40				10.00	1920		934 897			2.20		2.11	3.33	1.09	3.03	4.00		3.10	4.20		1100	3.51	3.36
Manganese (Total) Chromium III (diss filt)								134		110 93														127		
Chromium III (diss.filt) Chromium VI (diss.filt)	4.7 (AA) (1) 95th1die (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th1die) (2)		0.13							0.25																
Aluminium (diss.filt)	w-r (ne) (1); ww (nH) (2), 32 (30111/810) (2)	1	0.025		1	1	50			0.02S 50 50		0.025	0.025		0.025 50	0.025	0.025 50	0.025	0.025	1	0.025	0.025		50	5	50
Vanadium (diss.filt)			0.095							0.115			0.288		0.243	0.302	0.224		0.440		0.250	0.443		0.125	0.195	0.194
Phenois Dispusie Total	ug/l 7.7 (182) 46 (95th*file) (182)		22.50	22.50			1.25		1.7		9.20			22.50						22.50			22.50			
Phenols, Total Speciated TPH Aliphatics	7.7 (1&2) 46 (95th*tale) (1&2)		22.50	22.50			1.25		1.25		9.20			22.50				_		22.50			22.50			
Aliphatics																										
EC CS-06	15000 (7)	1	10	10	1	\vdash	25		25			10	10		10	10	10	10	10	1	10	10				
EC>C6-C8 FC>C8-C10	15000 (7) 300 (7)	+	12.5 7.5	12.5 7.5	1	1	30 0.05		30 0.05		_	12.5	12.5 7.5	1	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	1	12.5 7.5	12.5 7.5				
EC>C10-C12	300 (7)						3.5					5	5		5	5	5	5	5		5	5				
EC>C12-C16	300 (7)						5		5			5	5		5	5	5	5	5		5	5				
EC-C16-C21		-					2.5		2.5			5	5		5	5	5	5	5		24	5				
EC-C35-C44		_					2.5		2.5			5	5		5	5	5	5	5		5	5				
Aromatics FC CS-C7																										
EC CS-C7 EC>-C7-C8	10 (7) 700 (7)		1	1			0.025		0.025			1	1		1	1	2.5	1	1		1	1				
EC>C8-C10	300 (7)	-	2.5	2.5			0.025		0.025		_	2.5 25	2.5		2.5	2.5	2.5	2.5	2.5		2.5	2.5 25				
FC>C10-C12	90 (7)						3.5					5	5		5	5	5	5	5		5	5				
EC>C12-C16	90 (7) 90 (7)						3		3			5	5		5	5	5	5	5		5	5				
EC>C16-C21 EC>C21-C35	90 (7)	_					15 15		15 15		_	5	5		5	5	5	5	5		5	5				
	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%le (380) (1), 74 (AA) 95th%le (370) (2)		0.50	0.50			0.50		0.50		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50			
Benzene Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		0.50	0.50			0.50		0.50		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50			
Ethylbenzene p/m-Xvlene	300 (8)	_	0.50 1.00	0.50 1.00			0.50		0.50		0.50 0.50	0.50 1.00	0.50 1.00	0.50 1.00	0.50 1.00	0.50 1.00	0.50 1.00	0.50 1.00	0.50 1.00	0.50 1.00	0.50 1.00	0.50 1.00	0.50			
o-Xylene			0.50	0.50			0.50 0.50		0.50		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.00 0.50			
Sum of detected Xvlenes	500 (8)		1.50	1.50																						
Polyaromatic Hydrocabons Naphthalene (aq)	μη/l 2 (AA) (1 &2) 130 (MAC 1&2)		0.000	0.013			0.005		0.005		0.000	0.003	0.003		0.003	0.003	0.003	0.003	0.003		0.003	0.003				_
Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)		0.001	0.001			0.005		0.005		0.500		0.003		0.001	0.001	0.003	0.003	0.001			0.003				
Acenaphthene (aq)			0.002	0.006			0.005		0.005			0.001	0.001		0.001	0.001	0.001	0.001	0.001		0.001	0.001				
Fluorene (aq) Phenanthrene (aq)	•	_	0.001	0.003			0.005		0.005		_	0.001			0.001	0.001	0.001	0.001	0.001		0.001	0.001				
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)		0.001	0.006			0.005		0.005			0.001	0.001		0.001	0.001	0.001	0.001	0.001		0.001	0.001				_
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)		0.001	0.002			0.005		0.005			0.001	0.001		0.001	0.001	0.001	0.001	0.001		0.001	0.001				
Pyrene (aq) Benzo(a)anthracene (aq)	<u> </u>	1	0.001	0.001	1	1	0.005		0.005 0.005		_	0.001	0.001	1	0.001	0.001	0.001	0.001	0.001	1	0.001	0.001				
Chrysene (aq)	<u> </u>	1	0.001	0.001	1	1	0.005		0.005		_	0.001	0.001	1	0.001	0.001	0.001	0.001	0.001	1	0.001	0.001			-	
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))		0.001	0.001			0.005		0.005			0.001	0.001		0.001	0.001	0.001	0.001	0.001		0.001	0.001				
Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	1	0.001	0.001	1		0.005		0.005		_	0.001	0.001	1	0.001	0.001	0.001	0.001	0.001	1	0.001	0.001				
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.00027 (AN) (2 to 2) MAC (0.27 (1) 0.027 (2))	1	0.001	0.001	1	1	0.005		0.005			0.001	0.001		0.001		0.001		0.001	1	0.001	0.001				
Dibenzo(a,h)anthracene (aq)			0.002	0.002			0.005		0.005			0.002	0.002		0.002	0.002	0.002	0.002	0.002		0.002	0.002				-
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		0.002	0.002			0.005		0.005			0.001	0.002		0.002	0.002	0.002	0.002	0.002		0.002	0.002				
Dissolved Organic Carbon	mg/l		4.23	9.5	16	13	7.4			6.7 7.9			8.1		7.4	9.2	8	18.3	18.2		11.5	17.4		9.3	7.2	8.3
pH	6 - 9 (2&4)		7.6	7.7	8	7.8				7.3 7.7			7.2		7.8	7.4	7.6	7.3	7.3		7.2	7.2		7.4	7.4	7.4
Alkalinity (Total)	250 (5)		66	80	71	89	54			55 60		1	67 17.9		73	60	71	31	36		56	29		51	50	48
Chloride Ammoniacal Nitrogen	250 (5)	+	0.02	29 0.015	18 0.012	20 0.026	18 0.04			20 17 0.05 0.02	-	+	0.08	1	0.07	0.06	0.05	0.07	12	1	16	0.05		16 0.06	0.06	0.06
Nitrite		1	0.006	0.27	0.01	0.029	0.011			0.011 0.007		1	800.0		0.008	0.01	0.009	0.009	0.05	1		0.012		0.01	0.008	0.009
Nitrate	50 (5) 250 (5)		1.56	21	3.5	3.6	0.81			1.23 0.88			1.242		1.24	0.89	1.1	0.4	0.45			0.51		1	1.04	0.92
Sulphate	250 (5)	+	9.89		-		4.34			11.00 7.38		+	10.60		7.89	9.81	9.90	3.62	4.52	-	8.91	3.48		7.61	7.96	7.20
Sulphide Calcium		1	27.76		1	1	19.50			22.60 29.60		+	27.10		27.60	24.12	28.10	13.20	14.70	1	23.20	12.20		22.00	21.30	20.80
Potassium			1.96										2.89		3.01	2.72	3.10	2.47	3.16		2.47	2.74		2.93	2.80	3.25
Magnesium	200(5)		4.77				3.13			4.65 4.71 12.10 11.40		-	4.60 11.50		3.41 11.50	4.33 10.30	5.31 11.90	1.87 7.35	2.75 7.37		4.12 10.10	1.97 6.69		3.77 10.60		0.11 10.50
Sodium Biochemical Oxygen Demand	200(5)	+	12.25		1	1	11.40			12.10 11.40	_	+	11.50	1	11.50	10.30	11.90	7.35	7.37	1	10.10	6.69 1.5		10.60	13.40	1.0
Chemical Oxygen Demand			25										26 233		23	34	26	54				51		20	22	25
Conductivity		1	240		1					244		1	233		240	204	237	126	135	1	201	119		193		182
Total Oxidisable Nitrogen Total Phosphorus	+	+	1.57		+	+	0.82			1.24 0.89	_	+	1.25	+	1.25 0.125	0.9	1.11	0.41	0.46	1		0.52		1.01 0.125	1.05 0.125	0.93
Total Phosphorus		-	U.125	1	1	11						-	0.125		0.125	U.125	0.123	0.125	u.125	1		0.125		U.125	0.125	0.125

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern related) 2015 Freshwater.
 The Water Framework Directive (Writh's Substances and Classification) Regulations (Northern related) 2015 Freshwater.
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 The Community of The Water Framework Directive) Repulsion (Northern Prophety Standards and Groundwater threshold values (Water Framework Directive) Repulsion (Write Framework Directive) Repuls

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-KDS, Where the MAC-KDS are marked as "not applicable", the AA-KDS values are considered prosterior against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basic of acute

Note: 1 Colicional sizibile derived via the Metal Biovariability Assessment Tool (M BAT) developed by WDTFAL Look at recognitor specific assessment using the M-Note 1 - Colicional sizibile derived via the Metal Biovariability Assessment Tool (M BAT) developed by WDTFAL Look at recognit specific assessment using the M-Look at Colicional sizibility assessment tool (M BAT) developed by WDTFAL Look at recognit specific assessment using the M-Most 2 - Colicional sizibility developed by WDTFAL Look at recognit specific assessment using the M-MAT tool winting I/O Con Call so device a SE (M BROWN SE ASSESSMENT AS

Sample Point / Determinands HEAVY METALS Arenc (66s.fit) Cadman (fds.fit) Chromian (6s.fit) Cromian (6s.fit)	TSV DIG(1) 50 (AA) (1) 25 (AA (2)	MBAT PNEC (ug/l)	12/01/2010																						
Arsenic (diss.filt) Cadmium (diss.filt) Chromium (diss.filt) O.25 (AA) & 1.5 (Chromium (diss.filt)	µg/I 50 (AA) (1) 25 (AA (2)		12/01/2010												SW7										
Cadmium (diss.filt) 0.25 (AA) & 1.5 (Chromium (diss.filt)			12/01/2018	18/01/2018 17/04/2018	18/04/2018	26/06/2018	27/06/2018	03/10/2018	04/10/2018	09/01/2019	14/01/2019	07/02/2019	11/02/2019 27/03/2019	28/03/2019	11/04/2019	29/04/2019	21/05/2019	22/05/2019	19/06/2019 20/0	/2019 04/07	2019 05/07	2019 07/0	/2019 08/08/2019	10/09/2019	11/09/2019
Chromium (diss.filt)	MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l		0.40	0.42 0.025	+		0.33	0.38		0.40			0.45 0.025	0.26	0.35			0.33	0	46	0.3	8	0.55 0.025	-	0.56 0.025
Conner (diss filt)	50 (5)		0.125	0.125			0.125	0.125		0.125			0.250	0.250	0.250			0.250	0.	50	0.2	50	0.250		0.250
- copper (seasons)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (1&2)	34.94	1.860	2.370			1.080	1.030		1.484			2.538	1.289	1.880			0.897		99	1.0	30	2.222		2.147
Iron (diss.) Mercury (diss.filt)	1000 (AA) (1&2) 0.07 MAC (1&2)		332 0.0025	530 0.0025			196 0.0025	609 0.0025		594 0.0025			410 0.0025	243 0.0025	357 0.0025			91 0.0025		539	23 0.00		735 0.0025		877 0.0025
Manganese (diss.filt)	123 (AA) (************)	276.92	64	52			118	58		66			39.80023163	97.60196449	45			59.87016021		34932	7:	,	48.99420257		97.11075365
Molybdenum (diss.filt) Nickel (diss.filt)	70 (8) ? 4 ^{348 (389)} (AA) (1), 8.6 (AA) (2), 34 (MAC) (1&2)	14.98	1.21	1.16			0.91	1.10		1.22			1.19	1 15				0.00		27		6			1.68
Nickel (diss.hit) Lead (diss.filt)	4 (AA) (1), 8.6 (AA) (2), 34 (MAC) (182) 1.2 (MAC) (182)	14.98 9.64	0.125	1.16 0.125			0.91	1.10 0.125		1.22 0.125			1.19 0.29216588	1.15 0.125	1.11 0.125			0.89		32 25	0.1		1.61 0.125		1.68 0.125
Antimony (diss.filt)	5 (5)																								
	10(5) (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (600 M200 A)	10 37.15	0.25	0.21			0.46	0.33		0.31			0.10	0.36	0.40			0.30	0		0.3		0.40		0.45
Iron (Total)	(AA) (1) +ABC bloavailable 6.6 (AA) (2) +ABC	37.15	4.44	1806 513599	1170		0.50	1.43		2.26			4.53	2.17	2.10			0.50		07	0.5	0	2.07		2.85
Manganese (Total) Chromium III (diss.filt)				139.772752	68																				
Chromium III (diss.filt) Chromium VI (diss.filt)	4.7 (AA) (1) 95th%ile (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)												0.25 0.025	0.25	0.25 0.025			0.25	0		0.2		0.25 0.025		0.25 0.025
Aluminium (diss.filt)			50	50	1	1	20	50		50			104.5019373	50	50			50	0	0	51		50	1	50
Vanadium (diss.filt)			0.229	0.238			0.080	0.120		0.166			0.341	0.093	0.126			0.059	0.	90			0.243		50 0.234
Phenois Phenois Total	ug/l 7.7 (182) 46 (95th%le) (182)			22.50	22.50	22.50			22.50																
Phenols, Total Speciated TPH	ug/I				44.50	11.00			11.50																
Aliphatics EC C5-C6	15000 (7)																								
EC>C6-C8	15000 (7)			10 12.5	10	10 12.5			10												_			+	
EC-C6-C8 EC-C8-C10 EC-C10-C12	15000 (7) 300 (7)			7.5	7.5	7.5			7.5																
EC>C10-C12 EC>C12-C16	300 (7) 300 (7)	-		5	5	5			5		T										_ _			1	
FC>C16-C21	300 (7)			5	5	5			5																
EC-C21-C35 EC-C35-C44				5	5	5			5																
				5	5	5			5																
Aromatics EC CS-C7	10 (7)			1	1	1			1																
EC>C7-C8	700 (7)			2.5	2.5	2.5			2.5																
EC>C8-C10 EC>C10-C12	300 (7) 90 (7)			25 5	25 5	25 5			25 5																
EC>C12-C16	90 (7)			5	5	5			5											_	_				
EC-C16-C21	90 (7)			5	5	5			5																
EC>C21-C35 Benzene	90 (7) 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)			5 0.50	0.50	5 050			5 0.50													_			
Toluene Ethylbenzene	4 (AA) 95th%le (380) (1), 74 (AA) 95th%le (370) (2)			0.50	0.50	0.50			0.50																
	300 (8)			0.50	0.50	0.50			0.50																
p/m-Xylene o-Xylene				1.00 0.50	1.00	1.00 0.50			1.00													_			
Sum of detected Xvlenes	500 (8)																								
Polyaromatic Hydrocabons	µg/l 2 (AA) (1 &2) 130 (MAC 1&2)			0.012	0.003	0.003			0.003																
Naphthalene (aq) Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)			0.012	0.001	0.003			0.001											_	_				
Acenaphthene (aq)				0.001	0.002	0.001			0.001																
Fluorene (aq) Phenanthrene (aq)	<u> </u>			0.001 0.002	0.001	0.001			0.001													_			
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)			0.002	0.002	0.001			0.002															1	1
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)			0.001	0.001	0.001			0.001																
Pyrene (aq) Benzo(a)anthracene (aq)				0.001 0.001	0.001	0.001			0.001												_		_	+	
Chrysene (aq)				0.001	0.001	0.001			0.001																
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2) 0.00017 (AA) (1&2) MAC (0.27 (1) 0.027 (2))			0.001 0.001	0.001	0.001			0.001																
Benzo(k)fluoranthene (aq) Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))			0.001	0.001	0.001			0.001												_			+ - +	
Indeno(1,2,3-cd)pyrene (aq)				0.001	0.001	0.001			0.001																
Diberizo(a,h)anthracene (aq) Benzo(q,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)			0.002	0.002	0.002	1		0.002															1	
INORGANICS	mg/I				3.002	5,002			0.002																
Dissolved Organic Carbon	6 0 000			3.74	11	1.6		7			8.7	10.6	4.6			10 7.4	4.3		10.3	4	5		7	11.4	
pH Alkalinity (Total)	6 - 9 (2&4)	-1		7.3 29	7.4	6.8 81		7.5 76			7.5 58	7.3 25	7.5 65			7.4 55	7.6 86		7.6 57	7			.7 iS	7.5 56	
Chloride	250 (5)			29	13	23		18			16	9.5	20			19	19		16)		.6	16	
Ammoniacal Nitrogen				0.08	0.06	0.87		0.02			0.02	0.06	0.02			0.02	0.02		0.05	0.			02	0.04	
Nitrite Nitrate	50 (5)			0.006	0.015	0.026	1	0.005			0.009	0.007	0.008 2.12			0.006	0.009		0.009	0.1	18		01	0.01	
Sulphate	50 (5) 250 (5)		7.10	5.31	0.77		10.40	10.70		10.10	4.43	0.01	5.65	11.31	8.84	0.5	4.43	10.93	9	54	11.		8.31	2.44	10.21
	<u> </u>												0.005	0.005				0.005		05	35.		0.005		0.005
Sulphide		1	13.80	14.90	+	+	32.40 2.24	28.40		24.50 1.96			12.14 2.27	27.97	21.90 1.68			32.75 2.16		36 78	35. 2.4		23.34 2.18	+	24.99 2.23
Sulphide Calcium			2.74				5.98	5.46		4 38			2.18	4.70	4.09			6.02		29	63		4.42		4.23
Sulphide Calcium Potassium Magnesium			2.24	2.73																					
Sulphide Calcium Potassium Magnesium Sodium	200(5)				45		13.10	12.20		11.30	10	3.4	9.77	12.94	11.00	10	4.0	12.89	10	85		40	10.19	4.0	10.90
Sulphide Calcium Potassium Magnesium Sodium Sodium Biochemical Oxygen Demand	200(5)		2.24	2.73	1.5 35	1.5 10					1.0 22	2.4 39	1.0 10	12.94	11.00	1.0 21	1.0	12.89	1.0	85	13.	40	10.19 .0	1.0	
Sulphide Calcium Potassium Magnesium Magnesium Sodium Biochemical Oxygen Demand Chemical Oxygen Demand Comunicativy	200(S)		2.24	2.73 8.76 1.5 23 186	139	10 335		12.20 3.0 20 242			214	39 127	1.0 10 247	12.94	11.00	205	10 264	12.89	1.0 30 198	3 3 2	13.	40 1	10.19 .0 .8	204	
Suphide Calcium Potassium Magnesium Sodium Biochemical Oxygen Demand Ommical Oxygen Demand	200(5)		2.24	2.73 8.76 1.5 23		10		12.20 3.0 20				39	1.0 10	12.94	11.00		10	12.89	1.0	- 1	13. 0 1 1	1 2 1	10.19 .0		

The Water Framework Directive (Priority Substances and Classification) Regulations(Roombern Ireland; 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations(Roombern Ireland; 2015 Freshwater.
 The Classification (Priority Substances and Classification) Regulations(Roombern Ireland; 2015 transitional waters.
 The Consumber Framework Directive) Regulation (Priority Substances) Roomberg Roomberg (Priority Roomberg) Roomberg (Priority Roomberg) Roomberg (Priority Roomberg) Roomberg (Priority Roomberg) Roomberg (Priority Roomberg) Roomberg (Priority Roomberg) Roomberg (Priority Roomberg) Roomberg (Priority Roomberg) Roomberg (Priority Roomberg) Roomberg) Roomberg (Priority Roomberg) Roomberg) Roomberg (Priority Roomberg) Roomberg) Roomberg (Priority Roomberg) Roomberg) Roomberg (Priority Roomberg) Roomberg) Roomberg (Priority Roomberg) Roomberg) Roomberg (Priority Roomberg) Roomberg) Roomberg) Roomberg (Priority Roomberg) Roomberg) Roomberg) Roomberg) Roomberg (Priority Roomberg) Roomber

MAC. This parameter is the forcemental bushly Standard expressed as a maximum allowable concentration (MAC-EQS) where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against when term pollution peaks in continuous discharges since they are significantly lower than the values delivered on the basic of accent

Note: 1 Colicional salide derived via the Metal Biovaribability Assessment Tool (M.BAT) developed by WTDTAL Look at receptor specific assessment using the M. Service of the Service of th

Sample Point /		MBAT PNEC																									
Determinands	TSV	(ug/l)																									
HEAVY METALS	μη/Ι	15	5/10/2019	06/11/2019	06/01/2020	07/01/2020	22/01/2020	26/02/2020	18/03/2020	10/08/2020	07/09/2020	13/10/2020	10/11/2020	01/12/2020	11/01/2021	03/02/2021	09/03/2021	20/04/2021	21/04/2021	11/05/2021	23/06/2021	05/08/2021	23/09/2021	20/10/2021	24/11/2021	08/12/2021	24/01/2022
Arsenic (diss.filt) Cadmium (diss.filt)	50 (AA) (1) 25 (AA (2) 0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		0.025	0.49	0.025		0.025	0.025	0.35	0.53	0.56 0.025	0.57	0.025	0.41	0.34	0.40	0.025		0.35	0.36	0.32 0.025	0.59 0.025	0.51	0.67	0.42	0.53 0.025	
Chromium (diss.filt)	50 (5) 1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)		0.250 2.870	0.250 1.711	0.250 1.801		0.125 1.308	0.125 2.036	0.125 1.965	0.125 1.851	0.315 2.052	0.361 2.580	0.125 1.675	0.125 1.559	0.125 1.286	0.254 1.812	0.125		0.125 1.120	0.125 1.418	0.125 0.826	0.281 2.320	0.125 1.228	0.406 2.986	0.125 1.437	0.273 2.155	0.125 1.134
Copper (diss.filt) Iron (diss.)	1000 (AA) (1&2)		730	1./11 826	1.801		1.308 420	2.036	408	1.851 872	787	737	528	1.559 579	390	1.812 477	265		388	438	166	553	1.228 844	1049	1.437	383	347
Mercury (diss.filt)	0.07 MAC (182) 123 (AA) (Manager)	276.92	0.00568	0.0025 80 92187352				0.0025	0.0025	0.0025	0.00781 44.12974068	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025		0.0025 61.34123098	0.0025	0.0025	0.0025	0.0025	0.006512496	0.0025	0.0025	0.0025
Manganese (diss.filt) Molybdenum (diss.filt)	70 (8) 2																				82.72699945		53.10175204				
Nickel (diss.filt) Lead (diss.filt)	4 ^(MAC) (AA) (1), 8.6 (AA) (2), 34 (MAC) (18.2) 1.2 ^(MAC) (AA) (1), 1.3 (AA) (2), 14 (MAC) (18.2)	14.98 9.64	1.73 0.125	1.63 0.125	1.31 0.125		1.34 0.125	1.39 0.125	1.14 0.191	1.67	1.70 0.22052687	1.74 0.302	1.55 0.118453748	1.54	1.31	1.28	1.18 0.025		1.26 0.060622196	0.98	1.01 0.025	1.58 0.278116652	1.30	1.92	1.41	1.22 0.31377573	1.22
Antimony (diss.filt)	5 (5)	9.04	0.125	0.125	0.125		0.125	0.125	0.191	0.146395183	0.22052687	0.302	0.118453748	0.120805956	0.092617085	0.234987461	0.025		0.060622196	0.118486051	0.025	U.2/8116652	0.082572178	0.429407832	0.085999319	0.3137/5/3	0.025
Selenium (diss.filt) Zinc (diss.filt)	10(5) 10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC		0.47 4.06	0.38 2.63	0.30 3.38		0.41 1.97	0.31 5.02	0.23 3.70	0.10 2.27	0.10	0.10 3.23	0.10 2.87	0.10	0.10	0.20 4.27	0.10 1.92		0.10 1.94	0.10 2.13	0.10	0.10 2.30	0.10 1.09	0.23 4.15	0.10 2.73	0.10 4.53	0.10
Iron (Total)	10.9 (AR) (1) +ABC bloavailable 6.0 (AR) (2) +ABC	37.15	4.06	2.63	3.38		1.97	5.02	3.70	2.27	2.45	3.23	2.87	2.93	2.76	4.27	1.92		1.94	2.13	1.15	2.30	1.09	4.15	2./3	4.53	1.85
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 98th%ile (32)		0.35	0.25	0.35					0.13	0.27	0.36	0.13	0.13	0.13	0.13	0.13		0.13	0.13	0.13	0.28	0.13	0.41	0.13	0.27	0.13
Chromium III (diss.fit)	4.7 (AA) (1) 95th%ile (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)	-	0.025	0.025	0.25		-			0.13	0.27	0.025		0.13		0.13	0.13		0.13	0.025	0.13	0.28	0.13	0.41	0.13		0.13
Aluminium (diss.filt)			50	50	50		50	50	50	50	50	105.4321123	50	50	50	50	50		50	50	50	50	50	154.7648399		50	50
Vanadium (diss.filt) Phenols	ug/l		0.208	0.188	0.160		0.111	0.211	0.197	0.196	0.248	0.291	0.168	0.167	0.145	0.239	0.069		0.093	0.174	0.060	0.252	0.173	0.344	0.155	0.344	0.083
Phenols, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2)																										
Speciated TPH Aliphatics EC CS-C6	ug/l																										
EC C5-06	15000 (7)																										=
EC>C6-C8 EC>C8-C10	15000 (7) 300 (7)	+ +				-									-									-			
EC>C10-C12	300 (7)																										
EC>C12-C16 EC>C16-C21	300 (7)	-					-					-										-					
EC>C21-C35																											
EC>C35-C44																											
Aromatics EC CS-C7	10 (7)																										
EC>C7-C8 EC>C8-C10	700 (7) 300 (7)																										
FC>C10-C12	90 (7)																										
EC>C12-C16 EC>C16-C21	90 (7)																										
EC>C21-C35	90 (7)																										
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)																										
Ethylbenzene	300 (8)																										
p/m-Xylene																											_
o-Xylene Sum of detected Xylenes	500 (8)	-					-															-					
Polyaromatic Hydrocabons	μg/Ι																										
Naphthalene (aq) Acenaphthylene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)	-					-															-					
Acenaphthene (aq)																											
Fluorene (aq) Phenanthrene (aq)																											
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)																										=
Fluoranthene (aq) Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)										-																
Benzo(a)anthracene (aq)	-																										=
Chrysene (aq) Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)	1					 		-	-		+	-						-			 	-				
Benzo(k)fluoranthene (aq)	0.017 (MaC) (182) 0.0017 (MaC) (182) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))																										=
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	+																									
Dibenzo(a,h)anthracene (aq)																											
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2) mg/l																										
Dissolved Organic Carbon			9.8	10.6		6.6	5.2	5.8	8.3	5.7	11.6	15	7.8	7	7.9	12.2	4.7	9.6		9	4.6		8.5	24.4	- 8	10.6	6.1
pH Alkalinity (Total)	6 - 9 (28.4)	+	7.4 62	7.5 62		7.6 53	7.6 64	7.3 40	7.1	7.5	7.6 59	7.4 45	7.2 58	7.3 58	7.3 49	7.2 33	7.4	7.7		7.7	7.5 84	7.4 48	7.7	7.2 35	7.3 65	7.2 21	7.3 68
Chloride	250 (5)		18	17		17	18	27	17	18	15	14	20	22	20	13	20	17		12	18	14	17	13	20	15	19
Ammoniacal Nitrogen Nitrite			0.16 0.013	0.05		0.05 0.011	0.07	0.13	0.09	0.05 0.01	0.02	0.02	0.04 0.012	0.04	0.06	0.07 0.013	0.04	0.02		0.02	0.05	0.07	0.02	0.02 0.015	0.05	0.05 0.0025	0.07
Nitrate	50 (5) 250 (5)		1.27	1.22		1.19	1.76	1.23	0.84	1.15	1	0.87	1.48	1.53	1.3	0.82	0.78	1.12		0.6	1.04	0.84	0.85	0.64	1.38	0.74	1.85
Sulphate Sulphide	250 (5)	+	10.50	9.78 0.005	6.91 0.021		10.90	7.34	6.30	10.58	8.81	7.73	10.03	9.82	8.48	5.88	10.87		7.68	6.44	10.38	8.77	10.03	8.77	8.81	5.21	11.73
Calcium			27.00	25.81	17.99		28.23	17.57	15.24	27.28	24.12	19.77	25.43	25.75	21.71	14.79	29.89		20.93	17.44	32.10	15.98	28.54	19.14	17.30	10.94	30.41
Potassium Magnesium			3.15 4.59	2.35	1.70		2.60 4.77	2.35 2.82	2.31	2.33 4.74	2.36 4.05	2.46 3.31	2.61 4.21	2.53 4.21	2.12 3.66	2.14	2.28		1.62 3.61	1.57 3.30	2.03 5.86	2.01 3.08	2.13	2.90	2.64 3.06	2.66	2.54 5.18
Sodium	200(5)		12.20	11.43	8.88		12.53		10.43	11.93	10.37	9.47	11.51	11.54		8.75	12.64		9.37	8.51	12.59	8.05	11.83	10.18	9.11	8.64	12.63
Biochemical Oxygen Demand		1	1.0	1.0 24		1.0 20	1.0 10	1.0	1.0 26	1.0 26	2.2 29	1.0 33	1.0 10	1.0 19	1.0 16	2.2 26	1.5 5	1.0 15		1.5 27	1.5 13	2.5 51	2.1 24	1.5 55	1.5 18	1.5	1.5
Chemical Oxygen Demand Conductivity			215	213		193	233	203	146	227	194	163	211	214	197	138	246	227		158	262	175	236	145	232	119	13 246 1.86
Total Oxidisable Nitrogen			1.28 0.125	1.23 0.125		1.2 0.125	1.77 0.125	1.24 0.125	0.85 0.125	1.16 0.125	1.01 0.125	0.88	1.49 0.125	1.54 0.125	1.31 0.125	0.83 0.125	0.79	1.12 0.125		0.61	1.05 0.125	0.86 0.125	0.86 0.125	0.65 0.125	1.39 0.125	0.74	1.86 0.125
Total Phosphorus																											

The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern Ireland) 2015 Freshwater.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS).When the MAC-EQS are marked as "not applicable", the AA-EQQ values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basis of autentional basis of autentional peaks.

Note: 4 (2000 and saled edined us to Metal Biowaldability Associated Tool (M. BAT) developed by WET FAL. Look at receptor specific associations of the Net Country of

Sample Point /		MBAT PNEC																					
Determinands	TSV	(ug/l)																					
HEAVY METALS	μg/l	22/02/2022	22/02/2022	20/07/2016 09/08/2016	27/09/2016	09/01/2017	11/01/2017 06/02/2017	07/02/2017	19/07/2017	20/07/2017	15/09/2017	29/09/2017	20/09/2017	21/09/2017	05/09/2017	07/09/2017	12/09/2017	14/09/2017	15/09/2017	19/09/2017	21/09/2017	22/09/2017 25/	10/2017 20/11/2017
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)	0.37	0.28	20/07/2010 05/00/1010	17/03/1010	12.50	11/01/2017 00/03/2017	12.50	0.46	20/07/2027	13/00/1017	0.56	30)00/2017	0.52	0.57	0.51	0.69	0.80	13/03/2017	0.60	0.67		0.52 0.44
Cadmium (diss.filt) Chromium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l	0.025 0.125	0.025			5.000 12.500		5.000 12.500	0.025 0.125		0.125	0.557		0.025	0.025 0.125	0.025 0.125	0.025 0.125	0.025		0.025	0.025 0.436		0.025 0.025 0.264 0.257
Copper (diss.fit)	50 (5) 1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94 1.811	1.068			10.000		10.000	0.125		0.125	2.860		2.480	2.990	2.250	3.580	3.640	+	2.520	3.350		2.020 1.830
Iron (diss.)	1000 (AA) (1&2)	241	251			607		543	591			620		498	607	624	874	753		775	718		770 453
Mercury (diss.filt)	0.07 MAC (182)	0.0025				0.0025		0.0025	0.0025			0.0025		0.0025	0.0025	0.0025	0.0054	0.0062		0.0025	0.0054		0.0025
Manganese (diss.filt) Molyhdenum (diss.filt)	123 (AA) (*** noe**) 70 (#) ?	276.92 39.41607759	65.99032889			26		59	124			176		183	122	164	78	79	+'	142	70		85 112
Nickel (diss.filt)	(AA) (1) 8 6 (AA) (2) 24 (MAC) (182)	14.98 1.12	1.07			12.50		12.50	1.17			1.84		1.79	1.71	1.61	1.82	2.03	+	1.81	1.73		1.59 1.55
Lead (diss.filt)	1.2(MAC) (1AA) (1), 1.3 (AA) (2), 14 (MAC) (1&2)	9.64 0.224893005	0.025			12.5		12.5	0.125			0.125		0.125	0.125	0.125	0.481	0.572		0.257	0.476		0.125 0.125
Antimony (diss.filt) Selenium (diss.filt)	5 (5)	10 0.10	0.10					+	0.22	-	0.10	0.10		0.10	0.10	0.10	0.10	0.10		0.32	0.32		0.33 0.31
Selenium (diss.filt) Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (**** *******************************	37.15 3.77	1.58			10.00		10.00	1.17		0.10	3.01		1.99	1.92	1.95	4.07	4.37	†	3.43	4.06		2.44 3.58
Iron (Total)							1820	854	860										L .				1140
Manganese (Total) Chromium III (diss filt)	4.7 (AA) (1) 95th*Gile (32)	0.13	0.13				119	77	142 0.25										+'				104
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)	0.025	0.025						0.025		0.025	0.025		0.025	0.025	0.025	0.025	0.025	 	0.025	0.025		
Aluminium (diss.filt)		50	50			50		50	50			50		50	50	50	50	50		50	50		50 5
Vanadium (diss.filt)	ug/I	0.231	0.088					1	0.129	1		0.294	1	0.233	0.300	0.238	0.442	0.451		0.292	0.436		0.125 0.205
Phenois Total	7.7 (1&2) 46 (95th%ile) (1&2)					1.25	1.25			1.25			22.50						22.50			22.50	
Speciated TPH	ug/l																						
Aliphatics EC CS-C6	15000 (7)				-	25	25	+	1	1	10	10	!	10	10	10	10	10	+'	10	10		-+-
EC>C6-C8	15000 (7)					30	30				12.5	12.5		12.5	12.5	12.5	12.5	12.5	 	12.5	12.5		
EC>C8-C10	300 (7)					0.05	0.05				7.5	7.5		7.5	7.5	7.5	7.5	7.5		7.5	7.5		
EC>C10-C12 EC>C12-C16	300 (7)					3.5	-				5	5		5	5	5	5	5	ļ	5	5		
EC>C16-C21	300 (7)					2.5	2.5	_	-		5	5		5	5	5	5	5	+'	24	5		
EC>C21-C35						0.01	0.01				5	5		5	5	5	5	5	 	5	5		
EC>C35-C44						2.5	2.5				5	5		5	5	5	5	5	L .	6	5		
Aromatics FC CS-C7	10 (7)					0.025	0.025							- 1			- 1	1	+'				
EC>C7-C8	700 (7)					0.025	0.025	_	-		2.5	2.5		2.5	2.5	2.5	2.5	2.5	+'	2.5	2.5		
EC>C8-C10	300 (7)					0.025					25	25		25	25	25	25	25		25	25		
EC>C10-C12 EC>C12-C16	90 (7)					3.5					5	5		5	5	5	5	5		5	5		
EC-C16-C21	90 (7)					3 15	3 15				5	5		5	5	5	5	5	+'	5	5		
EC>C21-C35	90 (7)					15	15				5	5		5	5	5	5	5	+	5	5		_
Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)					0.50	0.50			0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
Toluene Ethylbenzene	74 (AA) 95th%ile (380) (1), 74 (AÁ) 95th%ile (370) (2)					0.50 0.50	0.50 0.50			0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
p/m-Xvlene	300 (8)					0.50	0.50	_	-	0.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
o-Xylene						0.50	0.50			0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
Sum of detected Xvlenes	500 (8)																						
Polyaromatic Hydrocabons Naphthalene (aq)	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)					0.005	0.005			0.500	0.003	0.002		0.003	0.003	0.003	0.003	0.003		0.003	0.003		
Acenaphthylene (aq)	, (AA) (2 02) 150 (PINC 202)					0.005	0.005 0.005			0.300	0.001	0.001		0.001	0.001	0.001	0.001	0.001	+	0.001	0.001		_
Acenaphthene (aq)						0.005	0.005				0.001	0.001		0.001	0.001	0.001	0.001	0.001	L .	0.001	0.001		
Fluorene (aq) Phenanthrene (aq)	-					0.005	0.005				0.001	0.001		0.001	0.001	0.001	0.001	0.001	+'	0.001	0.001		
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)					0.005	0.005				0.001	0.001		0.001	0.001	0.001	0.001	0.001	+	0.001	0.001		_
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)					0.005	0.005				0.001	0.001		0.001	0.001	0.001	0.001	0.001		0.001	0.001		
Pyrene (aq) Benzo(a)anthracene (aq)				 	1 +	0.005	0.005 0.005	1	1	1	0.001 0.001	0.001	1	0.001	0.001 0.001	0.001	0.001	0.001	 '	0.001	0.001		
Benzo(a)anthracene (aq) Chrysene (aq)	-			 	 	0.005	0.005	+	+	1	0.001	0.001	 	0.001	0.001	0.001	0.001	0.001	+		0.001		-
Benzo(b)fluoranthene (aq)	0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.0017 (MAC) (18.2) 0.00017 (AA) (18.2) MAC (0.27 (1) 0.027 (2))					0.005	0.005				0.001	0.001		0.001	0.001	0.001	0.001	0.001		0.001	0.001		
Benzo(k)fluoranthene (aq)	0.017 (MAC) (182)					0.005	0.005	1	1	1	0.001	0.001		0.001	0.001	0.001	0.001	0.001		0.001	0.001		
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.00017 (AR) (1 & 2) MAC (0.27 (1) 0.027 (2))			 	 	0.005	0.005 0.005	+	+	1	0.001	0.001	 	0.001	0.001	0.001	0.001	0.001	+	0.001	0.001		-
Dibenzo(a,h)anthracene (aq)						0.005	0.005				0.002	0.002		0.002	0.002	0.002	0.002	0.002		0.002	0.002		
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2)					0.005	0.005	1	1	1	0.001	0.002		0.002	0.002	0.002	0.002	0.002		0.002	0.002		
INORGANICS Dissolved Organic Carbon	mg/l	64	41	25 16	14	8		6.7	77			9.1		77	7.5	7.8	17.7	21		11.8	18.1		9.3 7
pH pH	6 - 9 (2&4)	7.4	7.4	8.1 8	7.8			7.4	7.6	1	1 -	7.3	1	7.7	7.5	7.6	7.3	7.4		7.4	7.2		7.5 7.6
Alkalinity (Total)		29	68	83 69	84	55		52	60			67		71	60	71	32	34		53	29		50 49
Chloride Ammoniacal Nitrogen	250 (5)	32	20	22 18	20 0.041	18 0.05		20	17 0.05	1	+	18.5	+	17	15	17	13	0.04	+	16	12		15 21 0.11 0.07
Nitrite		0.005	0.007	0.073 0.005	0.027	0.011		0.05	0.009	1	1 -	0.007	 	0.007	0.01	0.008	0.07	0.009	+		0.011		0.008 0.008
Nitrate	50 (5) 250 (5)	1.04	1.63	4.3 3.5	3.5	0.84		1.03	0.84			1.053		1.11	0.82	0.98	0.44	0.4			0.41		0.77 0.92
Sulphate	250 (5)	7.50	10.60		1			10.40	7.73	1 -	+-	10.30	1	7.21	9.48	9.62	3.71	4.64	↓	8.24	3.38		6.96 7.71
Sulphide Calcium		16.36	28.64		l +	19.90		21.60	29.20	+	1	26.10	 	26.60	23.60	28.40	13.10	13.80	+'	21.80	11.90		20.90 21.20
Potassium		2.82	2.11									3.07		2.62	2.27	2.74	2.48	2.96		2.55	2.73		2.74 2.80
Magnesium		3.31	4.92			2.61		4.45	4.71			4.74		3.47	4.20	5.37	1.75	2.63		3.99	1.98		3.62 3.42
Sodium Biochomical Occasion Domand	200(5)	16.11	12.36			11.20		12.00	11.80	1		11.60		11.30	10.30	11.70	7.12	7.37	 '	9.96	6.81		10.50 13.30 1.5 1.5
Biochemical Oxygen Demand Chemical Oxygen Demand		1.5 30	1.5 25					+	+	1		1.5	!	1.5 23	1.0	1.0 28	2.0 55	1.5	-		1.5 49		1.5 1.5 20 20
Conductivity		191	246						248			227 1.06		235	199	234	130	130		189	115		184 205
Total Oxidisable Nitrogen Total Phosphorus	1	1.04 0.125	1.64 0.125			0.85		1.04	0.85	1		1.06 0.125	1	1.12 0.125	0.83 0.125	0.99 0.125	0.45	0.41	$\perp =$		0.42		0.78 0.93 0.125 0.125
I otal Phosphorus	1	0.125	0.125							1		0.125	1	0.125	0.125	0.125	0.125	0.125			0.125		.125 0.125

The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern related) 2015 Freshwater.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protein against short-term pollution-peaks in continuous discharges since they are significantly lower than the values derived on the basic of acceleration.

Note: Collocardiable derived via the Metal Boovailability Associament Tool (M BAT) developed by WTDTAG. Look at receptor specific associament using the M-Note 1 Collocard Look derive a ECE referred to a 11th PRECEDIATIVE http://www.artible.org/incord/inver-bites entail blass/sibility-associament using the M-Look in 2012.

Note 2 Collocardiable derived via the Metal Boovailability Associament Tool (M BAT) developed by WTDTAG. Look at receptor specific associament using the M-Note 2 Collocardiable derived via the Metal Boovailability Associament Tool (M BAT) developed by WTDTAG. Look at receptor specific associament using the M-TAG Collocardiable derived via the Metal Boovailability Associament Tool (M BAT) developed by WTDTAG. Look at receptor specific associament using the M-TAG Collocardiable derived via the Metal Boovailability Associament tool (M BAT) developed by WTDTAG. Look at receptor specific associament using the M-TAG Collocardiable and Look at receptor specific association with the Metal Tool (M BAT) developed by WTDTAG. Look at receptor specific association at the Metal Boovailability association and the Metal Tool (M BAT) developed by WTDTAG. Look at receptor specific association at the Metal Boovailability association and the M

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																					
HEAVY METALS	μg/l		04/12/2017	12/01/2019	19/01/2019	17/04/2019 19/04/2019	10/05/2018 11/05/2018	15/05/2019 15/05/20	010 24/05/2010 3	20/05/2019	05/05/2019	14/05/2019	21/06/2019 2	C/0C/2019	7/06/2019	05/07/2019 00/07/2019	17/07/2019	25/07/2019	02/09/2019	00/00/2010	12/09/2019	20/09/2019	20/00/2010 02/00/2010
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		0.44	0.43	10,01,1010	0.43	10/03/2010 11/03/2010	13/03/1010 10/03/1	24)03/2010	0.38	00/00/2010	14/00/1010	11/00/1010		0.34	03/07/1010	17,07,1010	0.35	02/00/2010	03/00/1010	1370071010	0.50	110/00/1010 03/03/1010
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l			0.025		0.025				0.025					0.025			0.025				0.025	
Chromium (diss.filt) Copper (diss.filt)	50 (5)	34.94	0.252 1.990	0.125 1.920		0.125 2.420				0.250 1.250					1.040		_	0.250 1.080				0.250 2.380	$\overline{}$
Iron (diss.)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (1&2)	34.54	454	342		536				107					219			156				729	
Mercury (diss.filt)	0.07 MAC (182)			0.0025		0.0025				0.0025					0.0025			0.0025				0.00516	
Manganese (diss.filt) Molybrienum (diss.filt)	123 (AA) (*********************************	276.92	845	63		46				115					138			82				39	
Nickel (diss.filt)	4 (AA) (1), 8.6 (AA) (2), 34 (MAC) (182)	14.98	1.62	1.25		1.14				1.18					0.98		_	0.99				1.32	$\overline{}$
Lead (diss.filt)	1.2(MAC) (1A) (1), 1.3 (AA) (2), 14 (MAC) (1&2)	9.64	0.125	0.125		0.125				0.125					0.125			0.125				0.125	
Antimony (diss.fit) Selenium (diss.fit)	5 (5)	10	0.27	0.24		0.22				0.33					0.51			0.37				0.23	
Zinc (diss.fit)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (MARKOW A)	37.15	7.00	4.15		3.01				2.39					0.50			0.50				2.50	
Iron (Total)					1897.366379	1100																	
Manganese (Total) Chromium III (diss.fit)	4.7 (AA) (1) 95th%ile (32)				126.3400865	59				0.25								0.50				0.25	
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)									0.025								0.500				0.025	-+-
Auminium (diss.filt)	1 112 1 100 100 100 100		50	50		50				50					20			50				50	
Vanadium (diss.filt)	ug/I		0.188	0.239		0.249				0.082					0.077		_	0.078				2.000	
	7.7 (1&2) 46 (95th%ile) (1&2)				22.50	27 SO	22.50	22.50 22.50	22.50	22.50	22.50	22.50	22.50	22.50		22.50 22.50	22.50	22.50	22.50	22.50	22.50	0.25	22.50 22.50
Phenois, Total Speciated TPH	ug/I					21.50		11.30												22	22		
Aliphatics EC CS-C6	15000 (7)	1			-		25			-	35		75	40	-	37	-		35	35	Tr.		
EC>06-08	15000 (7)		 	 	10 12.5	10 12.5	25 75	25 75	75	25 75	25 75	25 75	25 75	10 12.5	-	25 25 75 75	25 75	75	75	25 75	25 75	25 75	25 25 75 75
EC>C8-C10	15000 (7) 300 (7)				7.5	7.5	50	50	25	50	50	50	50	7.5		50 50	50	50	50	50	50	50	50 50
EC>C10-C12	300 (7)				5	5	3.5	3.5	3.5	3.5			3.5	5		3.5 3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
EC>C12-C16 EC>C16-C21	300 (7)				5	5	5 2.5	5 25	5 2.5	5 2.5			5 2.5	5	-	5 5 2.5 2.5	2.5	2.5	2.5	5 2 5	5 2.5	5 25	5 2.5
EC>C21-C35					5	5	10	10	10	10			10	5		10 10	10	10	10	10	10	10	10
EC>C35-C44					5	5	2.5	2.5	2.5	2.5			2.5	5		2.5 2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Aromatics FC CS-C7	10.77				- 1	-	25	25	×	25	36	26	25	-		25 25	36	>6	36	20	20	- 10	× ×
EC>C7-C8	700 (7)				2.5	2.5	25	25	25	25	25	25	25	2.5		25 25	25	25	25	25	25	25	25 25
EC>C8-C10	300 (7)				25	25	25	25	25	25	25	25	25	25		25 25	25	25	25	25	25	25	25 25
EC>C10-C12 FC>C12-C16	90 (7)				5	5	3.5	3.5	3.5	3.5			3.5	5		3.5 3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
EC>C16-C21	90 (7)				5	5	15	15	15	15			15	5		15 15	15	15	15	15	15	15	15
EC>C21-C35	90 (7)				5	5	15	15	15	15			15	5		15 15	15	15	15	15	15	15	15
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 98th/tile (380) (1), 74 (AA) 98th/tile (370) (2)				0.50	0.50 0.50	0.50 0.50	0.50						0.50									
Ethylbenzene	74 (AA) 950175010 (350) (1), 74 (AA) 95017600 (370) (2)				0.50	0.50	0.50	0.50						0.50			_	_					$\overline{}$
p/m-Xylene					1.00	1.00	1.00	1.00						1.00									
o-Xylene Sum of detected Xylenes	500 (8)				0.50	0.50	0.50	0.50						0.50									
Polyaromatic Hydrocabons	ug/I																						
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)				0.003	0.003	0.009	0.007	0.003	0.006	0.003	0.003	0.003	0.007		0.003 0.003	0.003	0.007	0.003	0.003	0.006	0.003	0.003 0.007
Acenaphthylene (aq)					0.001	0.001	0.002	0.001	0.001		0.001	0.001		0.003		0.001 0.003	0.002	0.003	0.001		0.002	0.001	0.001 0.004 0.003 0.006
Acenaphthene (aq) Fluorene (aq)	i i				0.001	0.002		0.003		0.001	0.003			0.003		0.001 0.003	0.003	0.004		0.003	0.002		0.004 0.005
Phenanthrene (aq)	•				0.002	0.002		0.003	0.003	0.008	0.006			0.002		0.003 0.003	0.003	0.003		0.003	0.005	0.003	0.008 0.006
Anthracene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)		-	-	0.001	0.001	0.001 0.005	0.001		0.001	0.001			0.001		0.001 0.001 0.002 0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001 0.001 0.004 0.004
Fluoranthene (aq) Pyrene (aq)	0.0003 (AN) (1 & 2) 0.12 (PINC 1)		f -	1	0.001	0.001	0.004	0.002	0.002	0.002	0.002	0.002	0.002	0.001		0.002 0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.002 0.004
Benzo(a)anthracene (aq)					0.001	0.001	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.001		0.006 0.006	0.006	0.006	0.006	0.006	0.002	0.006	0.006 0.006
Chrysene (ag) Benzo(b)fluoranthene (ag)	0.017 (MAC) (18-2)		+	1	0.001	0.001	0.006	0.006 0.005	0.006 0.005	0.006	0.006			0.001		0.006 0.006 0.005 0.005	0.006 0.005	0.006	0.006	0.006	0.002 0.005	0.006 0.005	0.006 0.006 0.005 0.005
Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2)		f -	1	0.001	0.001	0.005	0.005		0.005	0.005			0.001	_	0.005 0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005 0.005
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))				0.001	0.001	0.004	0.011	0.004	0.004	0.004	0.004	0.004	0.001		0.004 0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004 0.004
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq)	:		+	1	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.001	0.001	0.001		0.001 0.001	0.001	0.001	0.002	0.001	0.002	0.001	0.001 0.001
Benzo(g.h.i)perviene (ag)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		!	1	0.002	0.002	0.001 0.002	0.001 0.001	0.001 0.001	0.001	0.005	0.001	0.001	0.002		0.001 0.001 0.001 0.001	0.001	0.001	0.002	0.001	0.002	0.001	0.001 0.003 0.001 0.002
INORGANICS	mg/l																						
Dissolved Organic Carbon	6 - 9 (2&4)		8.6 7.5	-	5.34 7.3	11.2 7.5		 		4.9 7.8							+	4.6 7.8	1			18.6 7.5	+-
pH Alkalinity (Total)			7.5 46	 	7.3 29	7.5 34	+ + + + + + + + + + + + + + + + + + + +	 		7.8		-		-	-		+	7.8	1			7.5	+
Chloride	250 (5)		16		27	12				20								20				12	
Ammoniacal Nitrogen			0.06		0.08	0.06 0.015				0.08							1	0.04				0.07	
Nitrite Nitrate	50 (5)	1	0.008	1	0.006	0.015		 		0.014					-		1	0.011	1			0.013	
Sulphate	50 (5) 250 (5)		6.82	5.57		4.84				10.60					10.50			12.00				11.10	
Sulphide										0.005							1	0.005				0.005	
Calcium Potassium			19.30	13.80		14.00 1.71				32.30 2.56					32.70 2.30		+	33.60	1			15.20 1.65	-
Magnesium			0.10	2.23		2.59				5.86					6.12			6.42	1			3.27	
Sodium	200(5)			17.10		8.58				14.80					13.40			13.40				9.70	
Biochemical Oxygen Demand Chemical Oxygen Demand			1.0		1.5 74	1.5		1		1.5							-	1.5	1			1.5 52	
Conductivity			177	1	24 182	133				283							+	276	1			52 144	-+
Total Oxidisable Nitrogen			0.79		0.58	0.66				0.99								0.87				0.43	
Total Phosphorus			0.125		0.125	0.125				0.125								0.125				0.125	

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Instand) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Instand) 2015 Freshwater.
 The Considerative Directive (Priority Substances and Classification) Regulations (Northern Instand) 2015 Transitional waters.
 The Considerative Directive (Priority Substander) (Priority Substander) (Priority Substander)
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basis of autentional peaks.

Note: Collocurabilité demed via the Metal Biosvaliability Associament Tool (M. BAT) developed by WFDTAE. Look at mospitor specific assessment using the Mr. Section of the Collocuration of the Colloc

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																					
HEAVY METALS	μg/l		20/09/2019	25/09/2019	01/10/2019	02/10/2019 01/	10/2019 10/10/2	010 17/10/2010	22/10/2019	21/10/2019	06/11/2019	15/11/2019	20/11/2019	21/11/2019 02/12/201	e 10/12/2010 11/12/	010 02/01/201	07/01/2010	09/01/2019	14/01/2019	24/01/2019	20/01/2010	07/02/2019	11/02/2019 14/02/2019
Arsenic (diss.fit)	50 (AA) (1) 25 (AA (2)	15/09/201	0.55	20/05/2018	01/10/2018	0.38	10/2018 10/10/2	.018 17/10/2018	25/10/2018	31/10/2018	00/11/2018	15/11/2018	20/11/2016	0.35	0.4	018 03/01/201	07/01/2019	0.41	14/01/2019	24/01/2019	26/01/2019	07/02/2019	0.45
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		0.025			0.025								0.025	0.02			0.025					0.025
Chromium (diss.filt) Copper (diss.filt)	50 (5) 1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94	0.332 2.800			0.125 1.080			+					0.250 1.510	0.25		_	0.125 1.494					0.250 2.430
Iron (diss.)	1000 (AA) (1&2)	34.94	811			624			+					452	2.09		_	643					383
Mercury (diss.filt)	0.07 MAC (1&2)		0.00522			0.0025								0.0025	0.003			0.0025					0.0025
Manganese (diss.filt)	123 (AA) (868 7095 ¹)	276.92	41.4392001			93								94	49			81					40.98526921
Nickel (diss.filt)	4 (MAC) (182)	14.98	1.60			1.14			+					1.19	1.55	-	_	1.24					1.41
Lead (diss.filt)	1.2 ^{688 7085} (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64	0.125			0.125								0.125	0.34			0.125					0.323107014
Antimony (diss.filt) Selenium (diss.filt)	5 (5)	10	0.26			0.28								0.33	0.38			0.24					0.23
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (************************************	37.15	2.75			2.22			+					1.60	4.70		_	2.23					3.85
Iron (Total)																							
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)													0.25	0.25								0.25
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		_											0.025	0.02								0.025
Aluminium (diss.filt) Vanadium (diss filt)			118.2826156 0.316		1	50			1				_	50	103		_	50				\vdash	50 0.295
Variadium (diss.filt) Phenols	ug/I		0.316			0.120							_	0.143				0.170					0.295
Phenols, Total	7.7 (1&2) 46 (95th%ile) (1&2)	22.50	22.50	22.50	22.50		22.50 22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50		22.50	22.50			22.50	22.50	22.50	22.50
Speciated TPH	ug/I																						
Aliphatics EC CS-C6	15000 (7)	25	25	25	25		10 25	25	25	25	25	25	25	25		25	25		25	25	25	25	25
EC>C6-C8 EC>C8-C10	15000 (7)	75	75	75	75		12.5 75		75	75	75	75	75	75		75	75		75	75	75	75	75 50
EC>C8-C10 EC>C10-C12	300 (7) 300 (7)	50	50	50	50		7.5 50	50	50	50	50	50	50	50		50	50		50	50	50	50	50 100
EC>C12-C16	300 (7)	5	5	10	5		5 5	5	5	5	5	5	5	10			5		5	5		5	100
EC>C16-C21		5	5	20 120	5		5 5	5	5	5	5	5	5	60			5		5	20		5	100 100 100
EC>C21-C35 EC>C35-C44		5	5	120 20	50 5		5 5 5 5	5	5	5	5	5	5	30			5		5	20		20 5	100 100
Aromatics		,	-	20	,		3 3	-	-			- 3		20			-		3	- 3			
EC CS-C7	10 (7)	25	25	25	25		1 25		25	25	25	25	25	25		25	25		25	25	25	25	25
EC>C7-08 EC>08-C10	700 (7) 300 (7)	25	25 25	25 25	25 25		2.5 25 25 25	25 25	25 25	25	25 25	25	25 25	25 25		25 25	25 25		25 25	25 25	25	25 25	25 25
EC>C10-C12	90 (7)	5	5	10	5		5 5		5	5	5	5	5	5			5		5	5	- 23	5	100
EC>C12-C16 EC>C16-C21	90 (7) 90 (7)	5	5	10	5		5 5	5	5	5	5	5	5	5			5		5	5		5	100
EC>C21-C35	90 (7)	5	5	10	10		5 5	5	5	5	5	5	5	5		-	5	+	5	5		5	100 100
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)						0.50															لللف	
	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2) 300 (8)		_				0.50																
Ethylberizene p/m-Xylene	300 (0)						0.50 1.00		+								_						
o-Xylene	500 (8)						0.50																
Sum of detected Xylenes Polyaromatic Hydrocabons	μg/I																					$\overline{}$	
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)	0.003	0.011	0.014	0.003		0.003 0.003	3 0.003	0.003	0.007	0.003	0.003	0.003	0.003		0.003	0.003		0.011	0.006	0.007	0.006	0.003
Acenaphthylene (aq)		0.003			0.001		0.001 0.001		0.001	0.002	0.001	0.001	0.001	0.001 0.001		0.002	0.001		0.002	0.001	0.001	0.001	0.002
Acenaphthene (aq) Fluorene (aq)	-	0.003	0.003	0.002	0.001		0.001 0.001		0.001	0.004	0.001	0.001	0.001	0.001		0.003	0.001		0.003	0.001	0.001	0.003	0.002
Phenanthrene (aq)		0.003	0.009	0.003	0.003		0.002 0.003	0.003	0.003	0.006	0.003	0.003	0.003	0.003		0.003	0.003		0.012	0.007	0.003	0.009	0.001 0.003
Anthracene (aq) Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)	0.001	0.001	0.001	0.001		0.001 0.001 0.001 0.005		0.001	0.001	0.001	0.001	0.001	0.001 0.004		0.001	0.001		0.001	0.001	0.001	0.001	0.001
Pyrene (aq)	- U.0000 (AN) (1 & 2) U.12 (PAC 1)	0.002	0.005	0.002	0.002		0.001 0.004	4 0.002	0.002	0.002	0.002	0.002	0.002	0.003		0.002	0.002	1	0.002	0.004	0.002	0.011	0.009
Benzo(a)anthracene (aq)	_						0.001 0.006	5 0.006	0.006	0.006	0.006	0.006	0.006	0.006		0.006	0.006		0.006	0.006	0.014	0.030	0.026
Chrysene (aq)		0.006			0.006																		
Renzo(h)fluoranthene (an)	0.017 (MAC) (182)	0.006	0.013	0.006	0.006		0.001 0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006		0.006	0.006		0.006	0.006	0.014	0.030	0.026
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2)	0.006 0.005 0.005	0.013 0.005 0.005	0.006 0.005 0.005	0.006 0.005 0.005		0.001 0.006 0.001 0.003 0.001 0.003	5 0.006 5 0.005 5 0.005		0.006 0.005 0.005	0.006 0.010 0.010		0.006 0.005 0.005	0.006 0.005 0.005		0.006 0.005 0.005	0.005 0.005		0.005	0.006 0.005 0.005	0.014 0.011 0.011	0.012 0.012	0.010 0.010
Benzo(k)fluoranthene (aq)	0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.00017 (AA) (1 8.2) MAC (0.27 (1) 0.027 (2))	0.006 0.005 0.005 0.004	0.013 0.005 0.005 0.004	0.006 0.005 0.005 0.004	0.006 0.005 0.005 0.004		0.001 0.006 0.001 0.003 0.001 0.003 0.001 0.004	5 0.006 5 0.005 5 0.005 4 0.004	0.006 0.005 0.005 0.004	0.006 0.005 0.005 0.004	0.006 0.010 0.010 0.004	0.006 0.005 0.005 0.004	0.006 0.005 0.005 0.004	0.006 0.005 0.005 0.004		0.006 0.005 0.005 0.004	0.005 0.005 0.004		0.005 0.005 0.004	0.006 0.005 0.005 0.023	0.014 0.011 0.011 0.022	0.012 0.012 0.018	0.010 0.010 0.004
	0.017 (MAC) (182) 0.00017 (AA) (182) MAC (0.27 (1) 0.027 (2))	0.006 0.005 0.005 0.004 0.001	0.013 0.005 0.005 0.004 0.002 0.004	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001		0.001 0.000 0.001 0.003 0.001 0.003 0.001 0.004 0.001 0.004	5 0.006 5 0.005 5 0.005 4 0.004 6 0.001 6 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.010 0.010 0.004 0.013 0.015	0.006 0.005 0.005 0.004 0.007 0.006	0.006 0.005 0.005 0.004 0.001	0.005 0.005 0.005 0.004 0.002		0.006 0.005 0.005 0.004 0.003 0.003	0.005 0.005 0.004 0.001 0.001		0.005 0.005 0.004 0.001 0.001	0.006 0.005 0.005 0.023 0.004	0.014 0.011 0.011 0.022 0.006 0.010	0.012 0.012 0.018 0.006 0.005	0.010 0.010 0.004 0.004 0.005
Benzo(k)fluoranthene (aq) Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq) Renzo(a,h)anthracene (aq)	0.017 (MAC) (18.2) 0.00017 (AA) (1 8.2) MAC (0.27 (1) 0.027 (2)) 	0.006 0.005 0.005 0.004 0.001	0.013 0.005 0.005 0.004 0.002	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001		0.001 0.000 0.001 0.003 0.001 0.003 0.001 0.004 0.001 0.004	5 0.006 5 0.005 5 0.005 4 0.004 6 0.001 6 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.010 0.010 0.004 0.013	0.006 0.005 0.005 0.004 0.007	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.002		0.006 0.005 0.005 0.004 0.003	0.005 0.005 0.004 0.001 0.001		0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.023 0.004	0.014 0.011 0.011 0.022 0.006	0.012 0.012 0.018 0.006	0.010 0.010 0.004 0.004
Benzo(k)fluoranthene (aq) Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq) Benzo(g,h)perylene (aq) INORGANICS	0.017 (MAC) (182) 0.00017 (AA) (182) MAC (0.27 (1) 0.027 (2))	0.006 0.005 0.005 0.004 0.001	0.013 0.005 0.005 0.004 0.002 0.004 0.002	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001		0.001 0.000 0.001 0.003 0.001 0.003 0.001 0.004 0.001 0.004	5 0.006 5 0.005 5 0.005 4 0.004 6 0.001 6 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.010 0.010 0.004 0.013 0.015	0.006 0.005 0.005 0.004 0.007 0.006	0.006 0.005 0.005 0.004 0.001	0.005 0.005 0.005 0.004 0.002	11.7	0.006 0.005 0.005 0.004 0.003 0.003	0.005 0.005 0.004 0.001 0.001		0.005 0.005 0.004 0.001 0.001 0.001	0.006 0.005 0.005 0.023 0.004	0.014 0.011 0.011 0.022 0.006 0.010	0.012 0.012 0.018 0.006 0.005 0.006	0.010 0.010 0.004 0.004 0.005
Benzo(k)fluoranthene (aq) Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)penthracene (aq) Benzo(a,h)penylene (aq) INORGANICS Dissolved Organic Carbon pH	0.017 (MAC) (18.2) 0.00017 (AA) (1 8.2) MAC (0.27 (1) 0.027 (2)) 	0.006 0.005 0.005 0.004 0.001	0.013 0.005 0.005 0.004 0.002 0.004 0.002	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	2.1	0.001 0.000 0.001 0.003 0.001 0.003 0.001 0.004 0.001 0.004	5 0.006 5 0.005 5 0.005 4 0.004 6 0.001 6 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.010 0.010 0.004 0.013 0.015	0.006 0.005 0.005 0.004 0.007 0.006	0.006 0.005 0.005 0.004 0.001 0.001 0.001	0.005 0.005 0.005 0.004 0.002	11.7	0.006 0.005 0.005 0.004 0.003 0.003	0.005 0.005 0.004 0.001 0.001		0.005 0.005 0.004 0.001 0.001 0.001 8.1 7.5	0.006 0.005 0.005 0.023 0.004	0.014 0.011 0.011 0.022 0.006 0.010	0.012 0.012 0.018 0.006 0.005 0.006	0.010 0.010 0.004 0.004 0.005
Benzo(k/fluoranthene (ag) Benzo(a)pyrene (ag) Indeno(1,2,3-cd)pyrene (ag) Indeno(1,2,3-cd)pyrene (ag) Diberazo(a,h/perylene (ag) Benzo(a,h/perylene (ag) INORGANICS Dissolved Organic Carbon pH Alkalinity (Total)	0.0017 (AAC) (18.2) 0.00017 (AA) (18.2) MAC (0.27 (1) 0.027 (2)) 0.0002 (MAC)(1) 8 0.00002 (MAC) (2)) 6 - 9 (284)	0.006 0.005 0.005 0.004 0.001	0.013 0.005 0.005 0.004 0.002 0.004 0.002 19.9 7.7 30	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	2.1 6.5 65	0.001 0.000 0.001 0.003 0.001 0.003 0.001 0.004 0.001 0.004	5 0.006 5 0.005 5 0.005 4 0.004 6 0.001 6 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.010 0.010 0.004 0.013 0.015	0.006 0.005 0.005 0.004 0.007 0.006	0.006 0.005 0.005 0.004 0.001 0.001 0.001	0.005 0.005 0.005 0.004 0.002	7.5 33	0.006 0.005 0.005 0.004 0.003 0.003	0.005 0.005 0.004 0.001 0.001		0.005 0.005 0.004 0.001 0.001 0.001 8.1 7.5 59	0.006 0.005 0.005 0.023 0.004	0.014 0.011 0.011 0.022 0.006 0.010	0.012 0.012 0.018 0.006 0.005 0.005 0.006	0.010 0.010 0.004 0.004 0.005
Benzo(k/fluoranthene (aq) Benzo(a)pyrene (aq) Indeno(1,2,3-cd/pyrene (aq) Iblenzo(a,h)snithracene (aq) Benzo(a,h)perviene (aq) INORGANICS Dissolved Organic Carbon pH Alkalnity (Total) Chloride	0.017 (AA) (18.2) MAC (18.2) 0.00017 (AA) (18.2) MAC (0.07 (1) 0.027 (2)) 	0.006 0.005 0.005 0.004 0.001	0.013 0.005 0.005 0.004 0.002 0.004 0.002 19.9 7.7 30 14	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	2.1 6.5 65 24 002	0.001 0.000 0.001 0.003 0.001 0.003 0.001 0.004 0.001 0.004	5 0.006 5 0.005 5 0.005 4 0.004 6 0.001 6 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.010 0.010 0.004 0.013 0.015	0.006 0.005 0.005 0.004 0.007 0.006	0.006 0.005 0.005 0.004 0.001 0.001 0.001 7.5 62 19 0.05	0.005 0.005 0.005 0.004 0.002	7.5 33 17 0.04	0.006 0.005 0.005 0.004 0.003 0.003	0.005 0.005 0.004 0.001 0.001		0.005 0.005 0.004 0.001 0.001 0.001 8.1 7.5 59 17	0.006 0.005 0.005 0.023 0.004	0.014 0.011 0.011 0.022 0.006 0.010	0.012 0.012 0.018 0.006 0.005 0.006 9.3 7.2 35 9.7 0.11	0.010 0.010 0.004 0.004 0.005
Benzo(kifuoranthere (ss) Benzo(a) pyrene (sp) Indeno(1,2,3-cd)pyrene (sp) Indeno(1,2,3-cd)pyrene (sp) Dibenzo(a,h) perylene (sq) Benzo(a,h) perylene (sq) Benzo(a,h) perylene (sq) INORGANICS Dissolved Organic Carbon pH Alkalniny (Total) Chloride Ammoniacal Nitrogen Nitrite	6.057 (MAC (18.2) 6.00017 (AA) (E. 3) (MC (18.2) (0.007 (2)) 6.0002 (MAC)(1) E.00002 (MAC) (2) (1.0002 (MAC)(1) E.00002 (MAC) (2) (2.0002 (MAC)(1) E.00002 (MAC) (2) (3.0002 (MAC)(1) E.00002 (MAC) (2) (4.0002 (MAC)(1) E.00002 (MAC) (2) (5.0002 (MAC)(1) E.00002 (MAC) (MA	0.006 0.005 0.005 0.004 0.001	0.013 0.005 0.005 0.005 0.004 0.002 0.004 0.002 19.9 7.7 30 14 0.002	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	2.1 6.5 6.5 6.5 24 0.02 0.036	0.001 0.000 0.001 0.003 0.001 0.003 0.001 0.004 0.001 0.004	5 0.006 5 0.005 5 0.005 4 0.004 6 0.001 6 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.010 0.010 0.004 0.013 0.015	0.006 0.005 0.005 0.004 0.007 0.006	0.006 0.005 0.005 0.004 0.001 0.001 0.001 7.5 62 19 0.05	0.005 0.005 0.005 0.004 0.002	7.5 33 17 0.04 0.007	0.006 0.005 0.005 0.004 0.003 0.003	0.005 0.005 0.004 0.001 0.001		0.005 0.005 0.004 0.001 0.001 0.001 0.001 7.5 59 17 0.005 0.005	0.006 0.005 0.005 0.023 0.004	0.014 0.011 0.011 0.022 0.006 0.010	0.012 0.012 0.018 0.006 0.005 0.006 9.3 7.2 35 9.7 0.11	0.010 0.010 0.004 0.004 0.005
Benzo(kifkuoranthere (es) Benzo(a) pyrene (ad) Indeno(1,2,3-cd)pyrene (ad) Indeno(1,2,3-cd)pyrene (ad) Indeno(1,2,3-cd)pyrene (ad) Benzo(a,h)perylene	6.057 (MAC (18.2) 6.00017 (AA) (E. 3) (MC (18.2) (0.007 (2)) 6.0002 (MAC)(1) E.00002 (MAC) (2) (1.0002 (MAC)(1) E.00002 (MAC) (2) (2.0002 (MAC)(1) E.00002 (MAC) (2) (3.0002 (MAC)(1) E.00002 (MAC) (2) (4.0002 (MAC)(1) E.00002 (MAC) (2) (5.0002 (MAC)(1) E.00002 (MAC) (MA	0.006 0.005 0.005 0.004 0.001	0.013 0.005 0.005 0.004 0.002 0.004 0.002 19.9 7.7 30 14 0.02 0.009	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	2.1 6.5 65 65 24 002 0.036 4.78	0.001 0.000 0.001 0.003 0.001 0.003 0.001 0.004 0.001 0.004	5 0.006 5 0.005 5 0.005 4 0.004 6 0.001 6 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.010 0.010 0.004 0.013 0.015	0.006 0.005 0.005 0.004 0.007 0.006	0.006 0.005 0.005 0.004 0.001 0.001 0.001 7.5 62 19 0.05	0.005 0.005 0.005 0.005 0.004 0.002 0.001	7.5 33 17 0.04 0.007 1.18	0.006 0.005 0.005 0.004 0.003 0.003	0.005 0.005 0.004 0.001 0.001	997	0.005 0.005 0.004 0.001 0.001 0.001 8.1 7.5 59 17	0.006 0.005 0.005 0.023 0.004	0.014 0.011 0.011 0.022 0.006 0.010	0.012 0.012 0.018 0.006 0.005 0.006 9.3 7.2 35 9.7 0.11	0.010 0.010 0.004 0.004 0.005 0.005
Benzot/shoronthere (es) Benzot/shoronthere (es) Benzot/shoronthere (es) Irdenot (2,2-s-d)pyrene (es) Irdenot (2,2-s-d)pyrene (es) Benzot (2,3-s-d)pyrene (es) Benzot (2,3-	0.0017 (AAC) (18.2) 0.00017 (AA) (18.2) MAC (0.27 (1) 0.027 (2)) 0.0002 (MAC)(1) 8 0.00002 (MAC) (2)) 6 - 9 (284)	0.006 0.005 0.005 0.004 0.001	0.013 0.005 0.005 0.005 0.004 0.002 0.004 0.002 19.9 7.7 30 14 0.002	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	2.1 6.5 6.5 6.5 24 0.02 0.036	0.001 0.000 0.001 0.003 0.001 0.003 0.001 0.004 0.001 0.004 0.001 0.000	5 0.006 5 0.005 5 0.005 4 0.004 6 0.001 6 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.010 0.010 0.004 0.013 0.015	0.006 0.005 0.005 0.004 0.007 0.006	0.006 0.005 0.005 0.004 0.001 0.001 0.001 7.5 62 19 0.05	0.005 0.005 0.005 0.004 0.002	7.5 33 17 0.04 0.007	0.006 0.005 0.005 0.004 0.003 0.003	0.005 0.005 0.004 0.001 0.001	9.92	0.005 0.005 0.004 0.001 0.001 0.001 0.001 7.5 59 17 0.005 0.005	0.006 0.005 0.005 0.023 0.004	0.014 0.011 0.011 0.022 0.006 0.010	0.012 0.012 0.018 0.006 0.005 0.006 9.3 7.2 35 9.7 0.11	0.010 0.010 0.004 0.004 0.005
Benzo(Shusenthene (as) Benzo(Shusenthene (as) Benzo(Shusenthene (as) Indenct (2,2-4-di)preme (ag) Indenct (2,3-4-di)preme (ag) Deberzo(3, hardracene (ag) Benzo(3,4-4-di)preme (ag) Benzo(3,4-4-di) Benzo(3,4-	6.057 (MAC (18.2) 6.00017 (AA) (E. 3) (MC (18.2) (0.007 (2)) 6.0002 (MAC)(1) E.00002 (MAC) (2) (1.0002 (MAC)(1) E.00002 (MAC) (2) (2.0002 (MAC)(1) E.00002 (MAC) (2) (3.0002 (MAC)(1) E.00002 (MAC) (2) (4.0002 (MAC)(1) E.00002 (MAC) (2) (5.0002 (MAC)(1) E.00002 (MAC) (MA	0.006 0.005 0.005 0.004 0.001	0.013 0.005 0.005 0.004 0.002 0.004 0.002 19.9 7.7 30 14 0.002 0.009 0.009 19.9 14 0.002	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	2.1 6.5 6.5 6.5 24 0.02 0.036 4.78 10.60 10.60	0.001 0.000 0.001 0.003 0.001 0.003 0.001 0.004 0.001 0.004 0.001 0.000	5 0.006 5 0.005 5 0.005 4 0.004 6 0.001 6 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.010 0.010 0.004 0.013 0.015	0.006 0.005 0.005 0.004 0.007 0.006	0.006 0.005 0.005 0.004 0.001 0.001 0.001 7.5 62 19 0.05	0.005 0.005 0.005 0.004 0.002 0.001 0.001	7.5 33 17 0.04 0.007 1.18 9.41 0.000	0.006 0.005 0.005 0.003 0.003 0.003 0.003	0.005 0.005 0.004 0.001 0.001	24.10	0.005 0.005 0.004 0.001 0.001 0.001 0.001 7.5 59 17 0.005 0.005	0.006 0.005 0.005 0.023 0.004	0.014 0.011 0.011 0.022 0.006 0.010	0.012 0.012 0.018 0.006 0.005 0.006 9.3 7.2 35 9.7 0.11	0.010 0.004 0.004 0.005 0.006 0.006 0.006 0.006 0.006
Benzo(Shupranthene (as) Benzo(Shupranthene (as) Benzo(Shupranthene (as) Indensol, 2,3-cdipurene (as) Indensol, 2,3-cdipurene (as) Indensol, 2,3-cdipurene (as) Benzo(Shupranth	6.057 (MAC (18.2) 6.00017 (AA) (E. 3) (MC (18.2) (0.007 (2)) 6.0002 (MAC)(1) E.00002 (MAC) (2) (1.0002 (MAC)(1) E.00002 (MAC) (2) (2.0002 (MAC)(1) E.00002 (MAC) (2) (3.0002 (MAC)(1) E.00002 (MAC) (2) (4.0002 (MAC)(1) E.00002 (MAC) (2) (5.0002 (MAC)(1) E.00002 (MAC) (MA	0.006 0.005 0.005 0.004 0.001	0.013 0.005 0.005 0.004 0.002 0.004 0.002 19.9 7.7 30 14 0.02 0.009 0.56 10.65	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	2.1 6.5 65 65 24 0.02 0.036 4.78 10.60 28.30 2.07	0.001 0.000 0.001 0.003 0.001 0.003 0.001 0.004 0.001 0.004 0.001 0.000	5 0.006 5 0.005 5 0.005 4 0.004 6 0.001 6 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.010 0.010 0.004 0.013 0.015	0.006 0.005 0.005 0.004 0.007 0.006	0.006 0.005 0.005 0.004 0.001 0.001 0.001 7.5 62 19 0.05	0.005 0.005 0.005 0.004 0.002 0.001 0.001 0.001	7.5 33 17 0.04 0.007 1.18 9.44 0.000 16.9	0.006 0.005 0.005 0.005 0.003 0.003 0.003	0.005 0.005 0.004 0.001 0.001	24.10 1.91	0.005 0.005 0.004 0.001 0.001 0.001 0.001 7.5 59 17 0.005 0.005	0.006 0.005 0.005 0.023 0.004	0.014 0.011 0.011 0.022 0.006 0.010	0.012 0.012 0.018 0.006 0.005 0.006 9.3 7.2 35 9.7 0.11	0.019 0.010 0.004 0.004 0.005 0.006 0.006
Bensol/Mupranthere (as) Bensol	6.057 (MAC (18.2) 6.00017 (AA) (E. 3) (MC (18.2) (0.007 (2)) 6.0002 (MAC)(1) E.00002 (MAC) (2) (1.0002 (MAC)(1) E.00002 (MAC) (2) (2.0002 (MAC)(1) E.00002 (MAC) (2) (3.0002 (MAC)(1) E.00002 (MAC) (2) (4.0002 (MAC)(1) E.00002 (MAC) (2) (5.0002 (MAC)(1) E.00002 (MAC) (MA	0.006 0.005 0.005 0.004 0.001	0.013 0.005 0.005 0.004 0.002 0.002 0.004 0.002 19.9 7.7 30 14 0.02 0.009 0.056 10.65	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	2.1 6.5 6.5 6.5 0.00 0.00 4.77 10.60 28.30 2.07 5.50 12.30	0.001 0.000 0.001 0.003 0.001 0.003 0.001 0.004 0.001 0.004 0.001 0.000	5 0.006 5 0.005 5 0.005 4 0.004 6 0.001 6 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.010 0.010 0.004 0.013 0.015	0.006 0.005 0.005 0.004 0.007 0.006	0.006 0.005 0.005 0.004 0.001 0.001 0.001 7.5 62 19 0.05	0.005 0.005 0.005 0.004 0.002 0.001 0.001	7.5 33 17 0.04 0.007 1.18 9.44 0.000 1.6.9 2.24 2.99	0.005 0.005 0.005 0.003 0.003 0.003 0.003	0.005 0.005 0.004 0.001 0.001	24.10	0.005 0.005 0.004 0.001 0.001 0.001 0.001 7.5 59 17 0.005 0.005	0.006 0.005 0.005 0.023 0.004	0.014 0.011 0.011 0.022 0.006 0.010	0.012 0.012 0.013 0.006 0.006 0.006 0.006 9.3 7.2 35 9.7 0.11 0.008 0.008	0.010 0.004 0.004 0.005 0.006 0.006 0.006 0.006 0.006
Benrof (Mpurenthere (as) Benrof (Ja)-preme (as) Indirect (Ja)-objective (as) Indirect (Ja)-objective (as) Indirect (Ja)-objective (as) Indirect (Ja)-objective (as) Indirect (Ja)-objective (as) Indirect (Ja) Benrof (Ja)-preview (as) INDIRECT (Ja) INDIRECT	6.057 (MAC (18.2) MC (18.2) 0.007 (21) 6.0002 (MAC)(3) RC (0002 (MAC) (2) 6.0002 (MAC)(3) RC (00002 (MAC) (2) 6.0002 (MAC)(3) RC (00002 (MAC) (2) 6.50 (28.6) 250 (5) 250 (5)	0.006 0.005 0.005 0.004 0.001	0.013 0.005 0.005 0.004 0.002 0.004 0.002 0.004 19.9 7.7 30 14 0.02 0.009 0.009 15.5 16.5 10.65	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	2.1 6.5 65 24 0.02 0.036 4.78 10.60 2.07 2.07 2.07 2.07 2.07 2.07 2.07 2.0	0.001 0.000 0.001 0.003 0.001 0.003 0.001 0.004 0.001 0.004 0.001 0.000	5 0.006 5 0.005 5 0.005 4 0.004 6 0.001 6 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.010 0.010 0.004 0.013 0.015	0.006 0.005 0.005 0.004 0.007 0.006	0.006 0.005 0.005 0.004 0.001 0.001 0.001 7.5 62 19 0.05 0.006 1.15	0.005 0.005 0.005 0.0001 0.00001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.00001 0.0	7.5 33 17 0.04 0.007 1.18 9.44 0.000 16.99 2.44 2.9,9	0.005 0.005 0.005 0.003 0.003 0.003 0.003	0.005 0.005 0.004 0.001 0.001	24.10 1.91 4.35	0.005 0.005 0.004 0.001 0.001 0.001 0.001 7.5 59 17 0.005 0.001 1.04	0.006 0.005 0.005 0.023 0.004	0.014 0.011 0.011 0.022 0.006 0.010	0.012 0.012 0.013 0.005	0.019 0.019 0.056 0.056 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005
Bensol/Mupranthere (as) Bensol	6.057 (MAC (18.2) MC (18.2) 0.007 (21) 6.0002 (MAC)(3) RC (0002 (MAC) (2) 6.0002 (MAC)(3) RC (00002 (MAC) (2) 6.0002 (MAC)(3) RC (00002 (MAC) (2) 6.50 (28.6) 250 (5) 250 (5)	0.006 0.005 0.005 0.004 0.001	0.013 0.005 0.005 0.004 0.002 0.004 0.002 19.9 30 14 0.02 0.009 11.5 15.11 1.75 15.11 1.75 15.11 1.75 15.11 1.75 15.11	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	2.1 6.5 65 24 0.02 0.036 4.78 10.80 2.27 5.50 12.30 2.6 10.00	0.001 0.000 0.001 0.003 0.001 0.003 0.001 0.004 0.001 0.004 0.001 0.000	5 0.006 5 0.005 5 0.005 4 0.004 6 0.001 6 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.010 0.010 0.004 0.013 0.015	0.006 0.005 0.005 0.004 0.007 0.006	0.006 0.005 0.005 0.004 0.001 0.001 0.001 7.5 62 19 0.05	0.005 0.005 0.005 0.0001 0.00001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.00001 0.0	7.5 33 17 0.04 0.007 1.18 9.44 0.000 1.6.9 2.24 2.99	0.005 0.005 0.005 0.003 0.003 0.003 0.003	0.005 0.005 0.004 0.001 0.001	24.10 1.91 4.35	0.005 0.005 0.004 0.001 0.001 0.001 0.001 1.75 59 17 0.05 0.01 1.04	0.006 0.005 0.005 0.023 0.004	0.014 0.011 0.011 0.022 0.006 0.010	0.012 0.012 0.013 0.005 0.005 0.005 0.005 0.006 3 7.2 35 9.7 0.11 0.008 0.97	0.019 0.019 0.056 0.056 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005
Bessol Villagranthere (al) Bessol Juryana (sa) Bessol Juryana (sa) Densol Juryana (sa) Densol Juryana (sa) Bessol Juryana (sa)	6.057 (MAC (18.2) MC (18.2) 0.007 (21) 6.0002 (MAC)(3) RC (0002 (MAC) (2) 6.0002 (MAC)(3) RC (00002 (MAC) (2) 6.0002 (MAC)(3) RC (00002 (MAC) (2) 6.50 (28.6) 250 (5) 250 (5)	0.006 0.005 0.005 0.004 0.001	0.013 0.005 0.005 0.004 0.002 0.004 0.002 0.004 19.9 7.7 30 14 0.02 0.009 0.009 15.5 16.5 10.65	0.006 0.005 0.005 0.0001 0.0001 0.0001 0.0001	0.006 0.005 0.005 0.004 0.001	2.1 6.5 65 24 0.02 0.036 4.78 10.60 2.07 2.07 2.07 2.07 2.07 2.07 2.07 2.0	0.001 0.000 0.001 0.003 0.001 0.003 0.001 0.004 0.001 0.004 0.001 0.000	5 0.006 5 0.005 5 0.005 4 0.004 6 0.001 6 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.005 0.005 0.004 0.001	0.006 0.010 0.010 0.004 0.013 0.015	0.006 0.005 0.005 0.004 0.007 0.006	0.005 0.005 0.005 0.004 0.001 0.001 0.001 0.001 7.5 62 19 0.05 0.05 0.05 0.05 1.15	0.005 0.005 0.005 0.001 0.001 0.002 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	7.5 3.3 17 0.04 0.007 1.18 9.44 0.000 1.6.9 2.24 2.9 9.9: 3.1	0.005 0.005 0.005 0.003 0.003 0.003 0.003	0.005 0.005 0.004 0.001 0.001	24.10 1.91 4.35	0.005 0.005 0.004 0.001 0.001 0.001 0.001 7.5 59 17 0.005 0.001 1.04	0.006 0.005 0.005 0.023 0.004	0.014 0.011 0.011 0.022 0.006 0.010	0.012 0.012 0.013 0.005	0.019 0.019 0.056 0.056 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005

The Water Framework Directive (Priority Substances and Cassification) Regulations(Northern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations(Northern Ireland) 2015 Transitional waters.
 The Water Framework Directive (Priority Substances and Cassification) Regulations(Northern Ireland) 2015 Transitional waters.
 The Consended Water (Directive) Cassification (Priority Substances) (Priority Substances) (Priority Substances) (Priority Substances)
 The Water (Priority Substances) (Priority Substances) (Priority Substances)
 The Water Substances (Priority Substances) (Priority Substances)
 The Water Substances (Priority Substances) (Priority Substances)
 The Water Substances (Priority Substances) (Priority Substances)
 Web Directive (Priority Substances)

MAC - This parameter is the Environmental Quality Standard oppressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution-peaks in continuous discharges since they are significantly lower than the values derived on the basis of autratectory.

Note: EQBiopositable derived via the Metal Biosvaliability Assessment Tool (M-BAT) developed by WDTAG. Look at receptor specific assessment using the M-BAT (Seveloped by WDTAG. Look at receptor specific assessment using the M-BAT (Seveloped by WDTAG. Look at receptor specific assessment using the M-BAT (Seveloped by WDTAG. Look at receptor specific assessment using the M-BAT (Seveloped by WDTAG. Look at receptor specific assessment using the M-BAT (Seveloped by WDTAG. Look at receptor specific assessment using the M-BAT (solid whigh Could call to developed by MDTAG. Look at receptor specific assessment using the M-BAT (solid whigh Could call to developed by MDTAG. Look at receptor specific assessment using the M-BAT (solid whigh Could call to developed by MDTAG. Look at receptor specific assessment using the M-BAT (solid whigh Could call to developed by MDTAG. Look at receptor specific assessment using the M-BAT (solid whigh Could call to developed by MDTAG. Look at receptor specific assessment using the M-BAT (solid whigh Could call to developed by MDTAG. Look at receptor specific assessment using the M-BAT (solid whigh Could call to developed by MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at receptor specific assessment using the MDTAG. Look at r

Part Part																								
Column C	Sample Point /		MBAT DNEC																					
ASSISTANCE ASS	Determinands	TSV																						
ASSISTANCE ASS																								
STATE STAT	HEAVY METALS	μg/I 50 (AA) (1) 25 (AA /2)		19/02/2019 2	/02/2019	05/03/2019 11/03/2	19 20/03/2	019 2	27/03/2019	28/03/2019 01/04/2019	11/04/2019	15/04/2019	25/04/2019 29/04/2019	08/05/2019	16/05/2019	21/05/2019	22/05/2019	29/05/2019 05/06/201	19/06/2019	20/06/2019	26/06/2019	04/07/2019	05/07/2019 09/07/2019	19/07/2019
Column C	Cadmium (diss.filt)									0.025	0.025						0.025			0.025	1		0.025	1
March Marc	Chromium (diss.filt)	50 (5)								0.250	0.250						0.250			0.250				
The column Column	Copper (diss.filt)	1 (AA) bioavailable (40 (2)	34.94					_																
March Marc	Mercury (diss.)	0.07 MAC (182)						_																+
Control Cont	Manganese (diss.filt)	123 (AA) (MA 10M1)	276.92							95.45795623	59						120.8463514			68.03796761			168	
March Marc	Molybdenum (diss.filt)	A S S S S S S S S S S S S S S S S S S S	14.00				_	_		1.11	1.12						0.93			1 20	-		1.17	
Second State	Lead (diss.fit)	1.2(MAC) (1), 0.6 (AA) (2), 34 (MAC) (162)	9.64					_																+
March Marc	Antimony (diss.filt)																							
Company Comp	Selenium (diss.filt)	10(5)	10 27 15				_	_													-			
Control Cont		10.5 (AA) (1) TADO DIOBTUILIBUIG 0.0 (AA) (1) TADO	57.15							2.29	2.39						1.07			2.41			1.33	_
Transferred Transferred																								
Company Comp	Chromium III (diss.hit)	4.7 (AA) (1) 95th*sile (32) 2.4 (AA) (1) 0.6 (AA) (2) 22 (95th*sile) (2)						_																
Marie Mari	Aluminium (diss.filt)	0.7 (AA) (1), 0.0 (AA) (2), 02 (0011 MH) (2)								50	50						50			50	1			+
Property Property	Vanadium (diss.filt)				-					0.100	0.130	1			1		0.057			0.207	1			$\perp =$
Control Cont	Phenois Phenois Total	7.7 (182) 46 (95th%ile) (182)		22.50	22.50	22.50 22.50	22.5		22.50	27 EN					22.50	22.50		22 SO 27 SO	22.50		22.50	22.50	22.50	22.50
## COLOR 1980	Speciated TPH			44		22.30	22.3		24.30	22.30					11.00	44.50		22.50	44.20		44.50	44.50	22.30	44.50
Color		47400 (TV																						
COCKET 1990					25 75		25	-	25 75	25 %	-	1		25 75	1	!					25 75			10
\$\frac{\frac{1}{2}\fra	EC>C8-C10	300 (7)												50				50 50						7.5
C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-					5	5 5	5		5													5	5	5
### COLOR 1		300 (7)			5																			
Applied	EC>C21-C35				5	5 10	5		5									40				5	5	5
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC					5	5 5	5		5					5				10				5	5	5
CCCCCC	EC CS-C7	10 (7)			25	25 25	25		25	50				25				25 25			25	1	1	1
C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-	EC>C7-C8	700 (7)			25		25			25												2.5	2.5	
ECCLES	EC>C8-C10		_		25		25	_		25				25				25 25			25			5
Colored Colo	EC>C12-C16	90 (7)			5	5 5	5	_	5					5				5				5	5	5
Program Washington Washin	EC>C16-C21				5	5 5	5		5					5								5	5	5
Mind Mind	EC>C21-C35				5	5 20	5	_	5						35.00						35.00			5 0.50
Conference	Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)																						
## Springer (a)	Ethylbenzene	300 (8)												25.00	25.00			25.00 25.00			25.00	0.50	0.50	0.50
The properties of the proper			_									-		25.00 25.00	25.00			25.00 25.00 25.00	_		25.00 25.00	1.00	1.00	1.00
Supplement (a)	Sum of detected Xylenes																							
According for		μg/l						_																
Accordance (a)		2 (AA) (1 &2) 130 (MAC 1&2)	_	0.003	0.013	0.003 0.00	0.00	1	0.003	0.007		-		0.003	+	0.016		0.003 0.011	0.003		0.003	0.003	0.003	
Present/Preserve (a)	Acenaphthene (aq)			0.001	0.004	0.001 0.000			0.001	0.001				0.002		0.004		0.001 0.001	0.002		0.001	0.002	0.001	
## Affregrent (a)		•		0.001	0.004	0.001 0.000	0.00		0.001	0.001				0.003		0.005		0.001 0.002	0.002		0.001	0.001	0.002	
Page of the first (a) 0.0000 0.0	Anthracene (aq)			0.001	0.001	0.001 0.000	0.00	1	0.001	0.001	l			0.001		0.001		0.001 0.001	0.001		0.001	0.001	0.001	+
Person P	Fluoranthene (ag)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)		0.003	0.002	0.002 0.01:	0.00	2	0.002	0.002				0.002		0.002		0.002 0.011	0.002		0.001	0.001	0.001	
Compare (a)	Pyrene (aq) Renzo(a)anthracene (an)	<u> </u>								0.002		1		0.002	1	0.002		0.002 0.010			0.001	0.001	0.001	+
Description of the Control of C	Chrysene (aq)	-		0.012	0.014	0.012 0.02	0.00	5	0.014	0.006				0.006		0.006		0.006 0.006	0.001		0.001	0.001	0.002	
Second Systems (eas) 0.00007 (Ab) (1.87) MAC (0.27 (1) 0.027 (2)) 0.994 0.994 0.994 0.994 0.994 0.994 0.994 0.994 0.994 0.994 0.995											— —	1 -		0.005	1 -							0.001	0.005	4
	Benzo(a)pyrene (ag)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	_				0.00	4		0.008		1			1									+
Benefit Description Desc	Indeno(1,2,3-cd)pyrene (aq)			0.004	0.001	0.003 0.003			0.001	0.001						0.001		0.001 0.010	0.001		0.001	0.001		
Note 1.7		0.0082 (MAC)(1) & 0.00082 (MAC) (2)									 		 											+
Control Cont	INORGANICS			0.003	0.001	0.00	0.00		0.001	0.001				0.001		0.001		0.002	3.002		0.002	0.002	0.002	
Abiefred (Total) Abiefred (To	Dissolved Organic Carbon												8.5											
Clerke 29 (5) 22 13 25 16 26 26 27 28 28 28 28 28 28 28		6 - 9 (2&4)		 			_					1	7.5		1	7.5					1		+-	+
Amorriscal Nitrogen 0.05 0.06		250 (5)					_	-+	20		t	1		t	1	20					1		-	+
Stories 177 150 0.77 150 0.77 150 0.77 150 0.77 150 0.77 150 0.77 150 0.77 150 0.77 150 0.77 150 0.77 150 0.77 150 0.77 150 0.77 150 0.77 150 0.77 150 0.77 150 0.77 150 0.77 150 0.77 0.7	Ammoniacal Nitrogen												0.02			0.05			0.08			0.06		
Suphrist 259 (5)	Nitrite Nitrata	50/5)		 			_					1	0.006		1						1		+-	+
Sophise		250 (5)					_	-+	1.79		7.99	1	0.77	t	1	1.04			0.79		1	1.02	11.70	+
Pelassium 220 1.59 2.25 1.65 2.48	Sulphide																							
Magresiam 456 1.72 6.03 4.18 6.43 6.0				 			_					1			1	-					1			+
Sodium 2009) 11.89 15.40 1.105 1.057 1.170 1.1							_	-+		4.56	3.73	1		t	1	f -			1 1	4.18	1		6.43	+
Central Contral	Sodium	200(5)								12.89	10.40									10.87			13.70	
Conductivity 256 196 267 191 275 7 101 101 101 101 101 101 101 101 101 1	Biochemical Oxygen Demand Chemical Oxygen Demand			 			_		1.0			1			1	1.0			1.0		1		+-	+
Total Oxidasable Nitrogen 1.8 0.78 1.05 0.8 1.03							_	-	236		l		196	l	-	267			191			275	-	+
Total Phosphorus 0.125 0.125 0.125 0.125	Total Oxidisable Nitrogen								1.8				0.78			1.05			0.8			1.03		
	Total Phosphorus								0.125			1	0.125			0.125			0.125		1	0.125		

The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern related) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern related) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Cassification) Regulations (Northern related) 2015 Transitional waters.
 The Cassification of Water (Priority Substances) Framework Directive) (Regulated and Water) (Priority Water Framework Directive) (Regulated Water) (Priority Water Framework Directive) (Regulated Water) (Priority Water Standard *) (Indicated Water) (Priority Water Standard *) (Indicated Water) (Priority Water Standard *) (Indicated Water) (Priority Water Standard *) (Indicated Water) (Priority Water Standard *) (Indicated Water) (Priority Water Standard *) (Indicated Water) (Indicated Water Standard *)

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EQS), Where the MAC EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution peaks in continuous discharges since they are significantly lower than the values derived on the basis of acutedrostic.

Nets: COBiouvabile derived us the Metal Biouvabilability Associated Tool (M. MAT) developed by WET FAL. Look at receptor specific associated study the Metal Biouvabilability associated Tool (M. MAT) developed by WET FAL. Look at receptor specific associated study to the Metal Biouvabilability associated Tool (M. MAT) developed by WET FAL. Look at receptor specific associated study to the Metal Biouvabilability associated Tool (M. MAT) developed by WET FAL. Look at receptor specific associatement using the MAT Incol with pill, Cook and Look developed by WET FAL. Look at receptor specific associatement using the MAT Incol with 100 LOOK and Look developed by WET FAL. Look at receptor specific associatement using the MAT Incol with 100 LOOK and Look developed by WET FAL. Look at receptor specific associatement using the MAT Incol with 100 LOOK and Look developed by WET FAL. Look at receptor specific associatement using the MAT Incol with 100 LOOK and Look at receptor specific associated to look with 100 LOOK and Look at Incol with 100 LOOK at Incol with 100 LOOK and Look at Incol with 100 LOOK and Look at Incol with 100 LOOK and Look at Incol with 100 LOOK and Look an

Sample Point / Determinands	TSV	MBAT PNEC												SW8											
Determinands		(ug/l)																							
HEAVY METALS	μg/I	23/07/2019	01/08/2019 07/08/2019	08/08/2019	15/08/2019	20/08/2019	29/08/2019	03/09/2019	10/09/2019	11/09/2019	17/09/2019	24/09/2019	02/10/2019	03/10/2019 0	9/10/2019 15/10	/2019 06/	11/2019	12/11/2019	20/11/2019	26/11/2019	28/11/2019	03/12/2019	11/12/2019	16/12/2019	30/12/2019 06/01/2020
Arsenic (diss.filt) Cadmium (diss.filt)	50 (AA) (1) 25 (AA (2) 0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l			0.61 0.025	-					0.59					0.0	53	0.49							\vdash	0.39 0.025
Chromium (diss.filt)	50 (5)			0.250						0.250					0.3	50	0.250								0.250
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (182)	34.94		2.166						2.340							2.524								1.557
Iron (diss.) Mercury (diss.filt)	0.07 MAC (182)			965 0.0025						917 0.0025					7	778 C	846							+	493 0.0025
Manganese (diss.filt)	123 (AA) (*********************************	276.92		67.27663599						88.36356153					7		07333723								61.66824981
Molybdenum (diss.filt) Nickel (diss.filt)	70 (8) ? 4/************************************	14.98		1.69						1.73					1	70	1.59							\vdash	1.27
Lead (diss.filt)	1.2(MAC) (1), 0.0 (AA) (2), 14 (MAC) (1&2)	9.64		0.265117066	1			1		0.281122535							0.125								0.125
Antimorry (diss.filt) Selenium (diss.filt)	5 (5)	40		0.40						0.43					0.		0.37							lacksquare	0.31
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (**** *******************************	10 37.15		2.02	-					3.24					2.		2.79							\vdash	3.56
Iron (Total)	1 111																								
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th1@e (32)			0.25						0.25					0	25	0.25							+	0.25
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)			0.025						0.025					0.0	25	0.025								0.025
Aluminium (diss.filt) Vanadium (diss.filt)				50 0.260						50 0.250						0 105	50 0.187							\vdash	50 0.164
Phenois	ug/I														0										
Phenois, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2)	22.50	22.50		22.50	22.50	22.50	22.50	22.50		22.50	22.50		22.50			22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50
Aliphatics EC C5-C6	ug/l																								
	15000 (7)	10	10 10		10	10	10	10	10		10	25					10	10	10	10	25	10	10	10	10
EC>C6-C8 EC>C8-C10	15000 (7) 300 (7)	12.5	12.5 12.5 7.5 7.5		12.5	12.5 7.5	12.5	12.5 7.5	12.5 7.5		12.5 7.5	75 50					12.5	12.5 7.5	12.5 7.5	12.5 7.5	75 50	12.5	12.5	12.5 7.5	12.5
EC>C10-C12	300 (7)	5	20		1	5	5	1.3			- /-2	5					5	5	5	5	5	5	5	5	5
EC>C12-C16 FC>C16-C21	300 (7)	5 440	20			5	5					5					5	5	5	5	5 20	5	ς	ς.	5
EC>C21-C35		240	10		-	5	5	-				10					5	5	5	5	5		5	5	5
EC>C35-C44		5	5			5	5					5					5	5	5	5	5	5	5	5	5
Aromatics FC CS-C7	10 (7)	1	1 1	+	1	1	1	1	- 1		1	25					1	1	1	- 1	25	- 1	- 1	1	1
EC>C7-O8	700 (7)	2.5	2.5 2.5		2.5	2.5	2.5	2.5	2.5		2.5	25					2.5	2.5	2.5	2.5	25	2.5	2.5	2.5	2.5
EC>C8-C10 EC>C10-C12	300 (7) 90 (7)		20		-	5						25 5							-	-	25 5		-	\vdash	5
EC>C12-C16	90 (7)	5	40		-	5	5					5					5				5	-			
EC>C16-C21	90 (7)	5	20			5	5					5					5	5	5	5	5	5	5	5	5
EC>C21-C35 Benzene	90 (7) 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)	5 0.50	0.50 0.50		0.50	5 0.50	0.50	0.50	0.50		0.50	10 25.00					0.50	0.50	0.50	0.50	5	0.50	0.50	0.50	0.50
Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)	0.50	0.50 0.50		0.50	0.50	0.50	0.50	0.50		0.50	25.00					0.50	0.50	0.50	0.50		0.50	0.50	0.50	0.50
Ethylbenzene p/m-Xylene	300 (8)	0.50 1.00	0.50 0.50 1.00 1.00		0.50 1.00	0.50 1.00	0.50 1.00	0.50 1.00	0.50 1.00		0.50 1.00	25.00 25.00					1.00	1.00	1.00	0.50 1.00		0.50 1.00	0.50 1.00	0.50 1.00	0.50 1.00
o-Xylene		0.50	0.50 0.50		0.50	0.50	0.50	0.50	0.50		0.50	25.00					0.50	0.50	0.50	0.50		0.50	0.50	0.50	0.50
Sum of detected Xylenes Polyaromatic Hydrocabons	500 (8)	1.50	1.50 1.50		1.50	1.50	1.50	1.50	1.50		1.50	1.50					1.50	1.50	1.50	1.50		1.50	1.50	1.50	1.50
Naphthalene (aq)	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)	0.003	0.003		0.003	0.003	0.003	0.003	0.003		0.003	0.003		0.003			0.003	0.014	0.031	0.046	0.003	0.040	0.046	0.120	
Acenaphthylene (aq)	1.11 1, 1	0.003	0.001		0.001	0.001	0.001	0.001	0.001		0.002	0.001		0.001			0.002	0.001				0.010			
Acenaphthene (aq) Fluorene (aq)	:	0.003	0.001		0.001	0.001	0.001	0.001	0.001		0.004	0.001		0.001			0.002	0.003	0.009	0.010	0.001	0.011	0.005 0.016	0.014	
Phenanthrene (aq)	0.1 (AA & MAC) (1 & 2)	0.002	0.002		0.002	0.002	0.006	0.002	0.004		0.008	0.003		0.005			0.005	0.016	0.013	0.023	0.003		0.072	0.074	
Anthracene (aq) Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)	0.003	0.001		0.001	0.001	0.001	0.001	0.001		0.001	0.001		0.001			0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.001	
Pyrene (aq)	- 0.0005 (AN) (1 0.12 (MAC 1)	0.002	0.001		0.001	0.001	0.002	0.002	0.001		0.001	0.002		0.001			0.002	800.0	0.005	0.005	0.002	0.002	0.016	0.008	
Benzo(a)anthracene (aq) Chrysene (aq)		0.001	0.001		0.001	0.001	0.001	0.001	0.001		0.001	0.006		0.001			0.001	0.002	0.001	0.001	0.006	0.001	0.004	0.001	
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)	0.003	0.001		0.001	0.001	0.002	0.001	0.001		0.001	0.005		0.001		Ī	0.001	0.004	0.001	0.001	0.005	0.001	0.001	0.002	
Benzo(k)fluoranthene (aq)	0.017 (MAC) (182) 0.0017 (AA) (182) 0.00017 (AA) (182) MAC (0.27 (1) 0.027 (2))	0.002	0.001	1	0.001	0.001	0.001	0.001	0.001		0.001	0.005		0.001			0.001	0.001	0.001	0.001	0.005		0.002	0.001	
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.00017 (AR) (1 & 2) MAC (0.27 (1) 0.027 (2))	0.003	0.001	-	0.001	0.001	0.001	0.001	0.001		0.001	0.004		0.001			0.001	0.001	0.001	0.001	0.004	0.001	0.004	0.001	+-
Dibenzo(a,h)anthracene (aq)	- 0.0082 (MAC)(1) & 0.00082 (MAC) (2)	0.005	0.002		0.002	0.002	0.002	0.002	0.002		0.002	0.001		0.002			0.002	0.002	0.002			0.002	0.002	0.002	
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	0.002	0.002	_	0.002	0.002	0.002	0.002	0.002		0.002	0.001		0.002			U.U02	0.002	0.002	0.002	0.001	0.002	0.003	0.004	
Dissolved Organic Carbon			16.2						11.9						9	3	10								
pH AllerSeiter (Tetal)	6 - 9 (2&4)		7.6 65	4	1			ļ	7.5 54						7		7.6 61				1	ļ		1	$\overline{}$
Alkalinity (Total) Chloride	250 (5)	_	16	-	1			 	54 15					 	1	7	18			-	-	t		\vdash	+-
Ammoniacal Nitrogen			0.02 0.01						0.05						0.		0.06								
Nitrite Nitrate	50 (5)		0.01	+	 			ł	0.007					 	0.0		1.13		-		1	!	-	+	-
Sulphate	50 (5) 250 (5)		0.98	8.61						9.57					9.	81	9.27								6.68
Sulphide Calcium				0.005	_			1		0.005				-		00	0.005							\vdash	0.01
Potassium		_	+	25.01 2.39	1			 		23.66 2.10				 	2.	66	24.91 2.34			-	-	t		\vdash	17.97 1.70
Magnesium				4.76						4.08					4.	41	4.38								1.70 3.16
Sodium Biochemical Oxygen Demand	200(5)		10	11.20	1			1	1.0	10.68				 	11		11.28			-	-	 		\vdash	9.03
Chemical Oxygen Demand			33						34						2		23 202								
Conductivity			207 0.99	1	_			1	191 1.2					-	2	38	202							\vdash	$\overline{}$
Total Oxidisable Nitrogen Total Phosphorus		_	0.99	-	1			 	0.125					 		25 (-	-	†		\vdash	+-
			0.113																						

The Water Framework Directive (Priority Sobstances and Cassification) Regulations/Borthern Instand, 2015 Freehwater.
 The Water Framework Directive (Priority Sobstances and Cassification) Regulations/Borthern Instand, 2015 Freehwater.
 The Water Framework Directive (Priority Sobstances and Cassification) Regulations/Borthern Instand, 2015 Transitional valetics.
 The Cassification Regulation
MAX. This parameter is the forwarmental Quality Standard expressed as a maximum allowable consentration (MAX-EQS) where the MAX-EQS are marked as "not supplicable", the AA-EQS volumes are considered protective against short term pollution peaks in continuous discharges since they are significantly lower than the values derived on the base of Acutestocky.

Note: 1 Colicious raliable derived via the Metall Biosovilability Assessment Tool (M BAT) developed by WTDTAL Look at receptor specific assessment using the M-Note 1 - English and COIC and Ca to derive 2 EER referred to a 11th PMECERIAINEN http://www.webbl.org/introvency/froms-lakes metal biosovilability assessment tool on bat.

Note 2 Colicious raliable derived via the Metall Biosovilability Assessment Tool (M BAT) developed by WTDTAL Look at receptor specific assessment using the M-Note 2 Colicious raliable derived via the Metall Biosovilability Assessment Tool (M BAT) developed by WTDTAL Look at receptor specific assessment using the M-Note 2 Colicious raliable derived via the Metall Biosovilability Assessment Tool (M BAT) developed by WTDTAL Look at receptor specific assessment using the M-Note 4 LOOK and Look a

Sample Point /		MBAT PNEC																									
Determinands	TSV	(ug/l)																									
HEAVY METALS	l/gq		07/01/2020	15/01/2020	22/01/2020	27/01/2020	05/02/2020	11/02/2020	19/02/2020	26/02/2020	03/03/2020	11/03/2020	18/03/2020	30/06/2020	07/07/2020	15/07/2020	21/07/2020	28/07/2020	04/08/2020	10/08/2020	18/08/2020	24/08/2020	03/09/2020	07/09/2020	24/09/2020	01/10/2020 06/10/20	020
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)				0.32					0.39			0.34							0.55				0.58			_
Cadmium (diss.filt) Chromium (diss.filt)	50 (5)				0.025					0.025		-	0.025							0.025 0.125				0.025			-
Copper (diss.filt)	1 (AA) bigavailable (see Note 1) (1) (see Note 4) (2)	34.94			1.300					2.023			1.596							1.876				1.898			_
Iron (diss.) Mercury (diss.filt)	1000 (AA) (182) 0.07 MAC (182)				441 0.0025					263			414 0.0025							895 0.0025			1	853 0.0025			
Manganese (diss.filt)	123 (AA) (*********************************	276.92			79.72363779					0.0025 68.4268323			48.48511335							92.75763471				65.50679809			_
Molybdenum (diss.filt)	70 (8) ? 4 ^(AB + 100 - 2) (AA) (1), 8.6 (AA) (2), 34 (MAC) (182)	14.98			1.35					1.40			1.07							1.68				1.76			_
Lead (diss.filt)	1.2 ^{588 700 1} (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	9.64			0.125					0.125			0.215							0.168349158				0.202852018			-
Antimony (diss.filt)	5 (5)	10			0.38					0.30			0.21							0.10				0.10			_
Zinc (diss.filt)	10(5) 10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (1000 (2000 2)	37.15			1.82					4.96	-	-	0.21 4.11							2.24				2.40			-
Iron (Total)																											_
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)	+	-	-				1		-	 	-			-	-			1	0.13			+	0.27			-
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)																			0.025				0.025			_
Aluminium (diss.filt) Vanadium (diss.filt)		+	-	-	50 0.116			1		50 0.214	 	-	50 0.203		-	-			1	50 0.209			+	50 0.231			-
Phenois	ug/l																										
Phenois, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2) ug/l		22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50												22.50	22.50 22.50	
Speciated TPH Aliphatics EC CS-C6																											
	15000 (7) 15000 (7)	-	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 12.5	10 10 12.5 12.5	
EC>C6-C8 EC>C8-C10	300 (7)		7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5 7.5	-
EC>C10-C12	300 (7) 300 (7)			5	5	5	5	5	5	5	5	5	5										1				
EC>C12-C16 EC>C16-C21	300 (1)			5	5	5	5	5	5	5	5	5	5														-
EC>C21-C35 EC>C35-C44				5	5	5	5	5 5	5 5	5 5	5	5	5 5														_
Aromatics				5	- 5	5	5	5	- 5	- 5	5	- 5	- 5														-
EC CS-C7 EC>C7-C8	10 (7) 700 (7)		2.5	1 25	1 25	1 25	1	2.5	1	1	2.5	2.5	1	1	1	1	1	1	2.5	1	1	1	1	1	1 25	1 1	_
EC>C8-C10	300 (7)		2.5	- 25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5 2.5	-
EC>C10-C12 EC>C12-C16	90 (7) 90 (7)			5	5	5	5	5	5	5	5	5	5														_
EC>C16-C21	90 (7)			5	5	5	5	5	5	5	5	5	5							-							-
EC>C21-C35	90 (7)			5	5	5	5	5	5	5	5	5	5														_
Berizene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)	+	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50 0.50 0.50 0.50	
Ethylbenzene	300 (8)		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50 0.50	
p/m-Xylene o-Xylene			1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 1.00 0.50 0.50	-
Sum of detected Xylenes	500 (8)		1.50			1.50	1.50		1.50	1.50	1.50		1.50				1.50			1.50				1.50		1.50 1.50	
Polyaromatic Hydrocabons Naphthalene (aq)	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)		0.009	0.010	0.003	0.007	0.018	0.003	0.003	0.003	0.003	0.003	0.001													0.014	_
Acenaphthylene (aq)			0.002	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001													0.001	
Acenaphthene (aq) Fluorene (aq)	:		0.005	0.004	0.002	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.001 0.001						l	1						0.003 0.002	_
Phenanthrene (aq)	0.1 (AA & MAC) (1 & 2)		0.012	0.004	0.002	0.004	0.006	0.002	0.002	0.002	0.002	0.002	0.002													0.009	9
Anthracene (aq) Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)		0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001						l	1						0.001 0.003	_
Pyrene (aq)	:		0.004	0.002	0.001	0.002	0.001	0.002	0.001	0.001	0.001	0.001	0.002													0.002 0.001	_
Benzo(a)anthracene (aq) Chrysene (aq)		-	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001										-			0.001	
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001													0.002	
Benzo(k)fluoranthene (aq) Benzo(a)pyrene (aq)	0.017 (MAC) (1&2) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001						-	-			1			0.002 0.003	
Indeno(1,2,3-cd)pyrene (aq)			0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001													0.002	2
Dibenzo(a,h)anthracene (aq) Renzo(a h i)nerviene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	-	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002		-	 							1			0.002 0.002	-
INORGANICS	mg/l			2.002		2.002	2.002	2.302	2.302		2.002	2.002														0.002	
Dissolved Organic Carbon	6 - 9 (2&4)	_	6.7 7.6		5.4 7.7					6.3 7.4	_	1	8.6 7.5							4.4 7.7			 	11.1	— <u> </u>		-1
pH Alkalinity (Total)		1	52		63					38			27							62			1	61			_
Chloride Ammoniacal Nitrogen	250 (5)	1	16 0.05		19					25 0.12	1	1	16 0.07							17 0.08				16 0.04			-1
Nitrite	<u> </u>		0.01		0.01					0.007			0.006							0.01				0.008			_
Nitrate	50 (5) 250 (5)		0.99		1.6					1.06			0.65							0.98				0.98			_
Sulphate Sulphide	250 (5)	1	+	-	10.60		l	+	-	7.14	 		5.28		 	t			+	10.19		-	1	9.85			\dashv
Calcium					27.53					17.09			12.98							26.30				25.14			コ
Potassium Magnesium	1	+	1	 	2.55 4.68	-	1			2.37	1	 	1.82 2.37		 	1	-	-		2.26 4.61			1	2.27 4.28			-1
Sodium	200(S)				12.56					14.55			9.92							11.80				10.80			_
Biochemical Oxygen Demand Chemical Oxygen Demand		+	1.0		1.0			-	-	1.0	-	+	1.0 25						-	1.0 28		-	+	2.1 26	-		-
Conductivity			192		230					198			131							28 222				206			_
Total Oxidisable Nitrogen Total Phosphorus			0.125		1.61 0.125					1.07 0.125	1	1	0.66							0.99 0.125				0.99			-1
i utai riiuspiiuius	1		0.123		0.125					0.123			0.123							0.123				0.123			

The Water Framework Directive (Priority Substances and Classification) Regulations(Northern Instand) 2015 Freehwater.
 The Water Framework Directive (Priority Substances and Classification) Regulations(Northern Instand) 2015 Transitional waters.
 The Water Framework Directive (Priority Substances and Classification) Regulations(Northern Instand) 2015 Transitional waters.
 The Commission Strong Water Instances of Area. The New Years Instances of Priority Standards and Groundwater threshold values (Water Framework Directive)
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC EQS). Where the MAC EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution-peaks in continuous discharges since they are significantly lower than the values derived on the basic of autoentocky.

Most :

Most : Collocovalable derived via the Metal Biovariability Associament Tool (M-BAT) developed by WDTAG. Look at receptor specific associament using the M-BAT) developed by WDTAG. Look at receptor specific associament using the M-BAT (developed by WDTAG. Look at receptor specific associament using the M-BAT) developed by WDTAG. Look at receptor specific associament using the M-BAT (developed by WDTAG. Look at receptor specific associament using the M-BAT (developed by WDTAG. Look at receptor specific associament using the M-BAT (developed by WDTAG. Look at receptor specific associament using the M-BAT (developed by MDTAG. Look at receptor specific associament using the M-BAT (developed by MDTAG. Look at receptor specific associament using the M-BAT (developed by MDTAG. Look at receptor specific associament using the M-BAT (developed by MDTAG. Look at receptor specific association and believed by MDTAG. Look at receptor specific associated by MD

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																										
HEAVY METALS	l/gμ		13/10/2020	20/10/2020	27/10/2020	02/11/2020	10/11/2020	17/11/2020	26/11/2020	01/12/2020	14/12/2020	21/12/2020	05/01/2021	11/01/2021	21/01/2021	25/01/2021	03/02/2021	16/02/2021	04/03/2021	09/03/2021	18/03/2021	25/03/2021	30/03/2021	07/04/2021	14/04/2021	20/04/2021	21/04/2021 27	/04/2021
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2) 0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		0.58				0.45			0.42				0.35			0.40			0.28							0.34	
Cadmium (diss.filt) Chromium (diss.filt)	50 (5)		0.025				0.025			0.025				0.025			0.025			0.025							0.025 0.125	-
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94	2.430				1.675			1.607				1.332			1.743			1.092							1.115	
Iron (diss.) Mercury (diss.filt)	1000 (AA) (182) 0.07 MaC (182)		800 0.0025				557 0.0025			595 0.0025				400 0.0025			479 0.0025			237 0.0025					1		351	
Manganese (diss.filt)	123 (AA) (*********************************	276.92	54.35931577	1	1		83.00181808			83.47153168		1		66.26014542			47.34078784			95.90043094		1					0.0025 62.39160978	-
Molybdenum (diss.filt)	70 (8) ? 4************************************	14.98	1.77				1.49			1.58				1.32			1.25			1.18							1.25	
Lead (diss.fit)	1.2(MAC) (1), 8.6 (AA) (2), 34 (MAC) (182)	9.64	0.305	-	1		0.136078764			0.144104177		1		1.32 0.111662135			0.239890992			0.025		1			-		0.056755054	-
Antimony (diss.filt)	5 (5)	10								0.10																		
Selenium (diss.filt) Zinc (diss.filt)	10(5) 10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (MA 12)	37.15	0.10 3.26	l	l		0.10 2.86			0.10 3.01		l	-	0.10 2.73			0.21 3.83			0.10 2.08		l			1		0.10 1.88	
Iron (Total)																												
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)		0.41				0.13			0.13				0.13			0.25			0.13							0.13	
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.025				0.025			0.025				0.125			0.025			0.107							0.065	
Aluminium (diss.filt) Vanadium (diss.filt)		 	110.1919904				50 0.186			50 0.182	_			50 0.152			50 0.242			50 0.082				 	1		50 0.091	
Phenois	ug/l																											
Phenols, Total Speciated TPH	7.7 (182) 46 (95th%ile) (182) ug/l		22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50		22.50	22.50
Aliphatics EC CS-C6																												
	15000 (7) 15000 (7)		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		10	10
EC>C6-C8 EC>C8-C10	300 (7)	 	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5	12.5 7.5		12.5 7.5	12.5 7.5
EC>C10-C12	300 (7)																								5			
EC>C12-C16 EC>C16-C21	300 (7)			ļ	l					ļ		l	-									l			5			
EC>C21-C35																									5			
EC>C35-C44 Aromatics																									5			
EC CS-C7	10 (7)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1
EC>C7-C8 EC>C8-C10	700 (7) 300 (7)		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5		2.5	2.5
EC>C10-C12	90 (7)																								5			
EC>C12-C16 EC>C16-C21	90 (7)																											
EC>C16-C21 EC>C21-C35	90 (7)			l	l					l		l	-									l			5			
Benzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50			0.50
Toluene Ethylbenzene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		0.50	0.50	0.50	0.50	0.50	0.50		0.50			0.50	0.50	0.50 0.50	0.50		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50		0.50	0.50
p/m-Xylene	500 (0)		1.00	1.00	1.00	1.00	1.00	1.00		0.50 1.00			1.00	1.00	1.00	1.00	0.50 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
o-Xylene Sum of detected Xylenes	500 (8)		0.50	0.50	0.50	0.50	0.50			0.50			0.50			0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50		0.50 1.50	0.50
Polyaromatic Hydrocabons	ug/I			1.50	1.50	1.50					3.55			3.50						1.30	1.50	1.50	1.50				1.50	
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)		0.003		0.003	0.009	0.009	0.016	0.003	0.060	0.003	0.010	0.011	0.021	0.003	0.023	0.047	0.372	0.086	0.003	0.007	0.003	0.003	0.003	0.018		0.003	0.074
Acenaphthylene (aq) Acenaphthene (aq)			0.001		0.001		0.001							0.003	0.002		0.003	0.051	0.006	0.002	0.003	0.002	0.002	0.001	0.007			0.007
Fluorene (aq)	•		0.001		0.001	0.005	0.002	0.003	0.001	0.007	0.001	0.002	0.002	0.003	0.002	0.003	0.004	0.009	0.003	0.002	0.001	0.002	0.001	0.001	0.004		0.001	0.001
Phenanthrene (aq) Anthracene (aq)	0.1 (AA & MAC) (1 & 2)		0.002	-	0.002	0.008	0.006	0.011	0.028	0.011	0.004	0.005	0.002	0.002	0.006	0.006	0.008	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004			0.007
Fluoranthene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)		0.001		0.001	0.005	0.004	0.005	0.025	0.004	0.002	0.003	0.002	0.001	0.006	0.003	0.005	0.001	0.001	0.003	0.001	0.001	0.001	0.001	0.001		0.002	0.001
Pyrene (aq) Benzo(a)anthracene (aq)		+	0.001	+	0.001	0.005	0.002	0.004	0.013 0.001	0.004	0.002	0.003	0.002	0.002	0.006	0.003	0.004	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001		0.002 0.001	0.001
Chrysene (aq)	· .		0.001		0.001	0.003	0.001	0.002	0.001	0.002	0.001	0.002	0.001	0.001	0.003	0.001	0.003	0.002	0.001	0.002	0.002	0.001	0.001	0.001	0.001		0.002	0.001
Benzo(b)fluoranthene (ag) Benzo(k)fluoranthene (ag)	0.017 (MAC) (182) 0.017 (MAC) (182)	+	0.001	+	0.001	0.003	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		0.001 0.001	0.001
Benzo(a)pyrene (aq)	0.017 (MAC) (182) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))		0.001		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.002	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001		0.001	0.001
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq)		 	0.001		0.001	0.002	0.001	0.001	0.001	0.001	0.001 0.002	0.001	0.001	0.001	0.004	0.001	0.006	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		0.001	0.001
Benzo(a h i)pervlene (aa)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		0.002		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002		0.002	0.002
INORGANICS	mg/l		43.7				0.1			7.1				0.3			124			4.0								
Dissolved Organic Carbon pH	6 - 9 (2&4)	1	12.7 7.4				9.1 7.4			7.1 7.4				8.3 7.5			13.1 7.3			4.9 7.5					1	8.9 7.6		-
Alkalinity (Total)			44				55			57				47			30			72						66		=
Chloride Ammoniacal Nitrogen	250 (5)	1	0.04				19 0.02			21 0.05			-	20 0.06			13 0.07			19 0.06					1	32 0.04		-
Nitrite			0.008				0.01			0.008				0.012			0.011			0.013						0.005		
Nitrate Sulphate	50 (5) 250 (5)	+	0.74 8.06	+	+		9.12	-		1.36 9.31		+		1.13 7.78		-	0.69 5.30			1.05 10.51		+	-	 	1	0.98	7.27	-
Sulphide	250 (5)	İ																							1		7.27	
Calcium		1	20.82				23.75			24.78				20.44			13.53		_	29.31 2.27	_				1		20.34	
Potassium Magnesium		1	3.50				2.49 3.94			2.48 4.06				2.07 3.49			2.02			4.93					1		1.54 3.55	-
Sodium	200(S)		10.25				11.20			11.68				12.51			8.88			12.62							9.47	=
Biochemical Oxygen Demand Chemical Oxygen Demand	+	1	1.0 32				1.0		-	1.0				1.0 16			2.3			1.5 11				 	1	1.0		
Conductivity			160				199			20 207				195			25 128			244						222		
Total Oxidisable Nitrogen Total Phosphorus		 	0.75 0.125				1.22 0.125			1.37 0.125	_			1.14			0.7			1.06 0.125				 	1	0.98		
rotal Filospilorus			0.123				0.423			0.123				0.463			0.423			U-443						0.123		

The Water Famework Directive (Priority Substances and Classification) Regulations(Roothern Ireland) 2015 Freshwater.
 The Water Famework Directive (Priority Substances and Classification) Regulations(Roothern Ireland) 2015 Freshwater.
 The Water Famework Directive (Priority Substances and Classification) Regulations(Roothern Ireland) 2015 Transitional valents.
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS valuesare considered protective against short-term pollution-peaks in continuous discharges since they are significantly lower than the values deviewed on the basic of acceleration.

Sample Point /	TSV	MBAT PNEC																								
Determinands	154	(ug/l)																								
HEAVY METALS	l/d/I	04/05/2021	11/05/2021	18/05/2021	26/05/2021	02/06/2021	10/06/2021	15/06/2021	23/06/2021	29/05/2021	05/07/2021	15/07/2021	21/07/2021	29/07/2021	05/08/2021	11/08/2021	17/08/2021	25/08/2021	02/09/2021	08/09/2021	16/09/2021	23/09/2021	30/09/2021	05/10/2021	12/10/2021	20/10/2021
Arsenic (diss.filt) Cadmium (diss.filt)	50 (AA) (1) 25 (AA (2) 0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l		0.35	-					0.33 0.025				0.42		0.58 0.025							0.54				0.66
Chromium (diss.fit)	80 (5)		0.025						0.025				0.025		0.025							0.025	-	++		0.025
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2) 1000 (AA) (1&2)	34.94	1.209						0.835				0.702		2.024							1.628				3.210
Iron (diss.) Mercury (diss.filt)	1000 (AA) (182) 0.07 MAC (182)		456						198				123		655							881				1069
Manganese (diss.filt)	123 (AA) (*********************************	276.92	0.0025 41.09679028	-		-			0.0025 163.043113		-		0.0025	-	0.0025					-		0.0025 90.97136505	+	+		0.006141277 39.94032389
Molybdenum (diss.filt)	70 (8) 2																									
Nickel (diss.filt) Lead (diss.filt)	4(MA) (1), 8.6 (AA) (2), 34 (MAC) (182) 1.2(MA NOW 3) (AA) (1), 1.3 (AA) (2), 14 (MAC) (182)	14.98 9.64	1.00						1.07				1.08		1.51							1.37		\Box		1.89
Antimony (diss.fit)	1.2******(AA) (1), 1.3 (AA) (2), 14 (MAC) (162)	9.64	0.084974372	-		-			0.025		-		0.025	-	0.345606284					-		0.107449104	+	+		0.479000052
	10(5)	10	0.10						0.10				0.10		0.10							0.10				0.25
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC	37.15	1.75						1.42				0.51		1.95							1.43		\Box		4.75
Iron (Total)				-		-					-			-						-			+	+		-
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)		0.13						0.13				0.13		0.27							0.13				0.38
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.025						0.025				0.025		0.025							0.025		\Box		0.025
Aluminium (diss.filt) Vanadium (diss.filt)			50 0.139	+	 	1			50 0.058		1		0.025	1	50 0.262		 			+	 	50 0.174	+	++		164.3361742
Phenois	ug/l		0.207																							0.000
Phenols, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2)	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50
Speciated TPH	ug/l																									
Aliphatics EC CS-C6	15000 (7)	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
EC>C6-C8	15000 (7)	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
EC>C8-C10 FC>C10-C12	300 (7) 300 (7)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
EC>C10-C12 EC>C12-C16	300 (7)	1	l	1		-			1	1	1		1	1	1	-		-	 	1		-	+	+		
EC>C16-C21																										
EC>C21-C35 EC>C35-C44																										
																							+			$\overline{}$
Aromatics EC CS-C7	10 (7)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EC>C7-C8	700 (7)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
EC>C8-C10 EC>C10-C12	300 (7)																									
EC>C10-C12 EC>C12-C16	90 (7)																						+			$\overline{}$
EC>C16-C21	90 (7)																									
EC>C21-C35	90 (7)																									
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2) 74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)	0.50 0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Ethylbenzene	300 (8)	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
p/m-Xylene		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
o-Xylene Sum of detected Xylenes	500 (8)	0.50 1.50	0.50 1.50	0.50 1.50	0.50 1.50	0.50 1.50	0.50 1.50	0.50 1.50	0.50 1.50	0.50 1.50	0.50 1.50	0.50 1.50	0.50 1.50	0.50	0.50 1.50	0.50 1.50	0.50	0.50 1.50	0.50 1.50	0.50 1.50	0.50 1.50	0.50 1.50	0.50 1.50	0.50 1.50	0.50 1.50	0.50 1.50
Polyaromatic Hydrocabons	ug/I	1.30	1.50	1.50	1.30	1.50	1.50	1.50	1.50	1.30	1.50	1.50	1.30	1.30	1.30	1.50			1.50	1.50	1.50	1.50	1.30	1.30	1.50	
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.033		0.003	0.003	0.003	0.059	0.003	0.014		0.009	0.003	0.003	0.003	0.003	0.006	0.006	0.006
Acenaphthylene (aq) Acenaphthene (aq)		0.001 0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002		0.001	0.001	0.001	0.001	0.001	0.004	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.001
Fluorene (aq)	i i	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		0.001	0.003	0.001	0.001	0.001	0.016	0.001	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.001
Phenanthrene (aq)	•	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.006	0.002		0.002	0.002	0.002		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.005	0.006	0.004
Anthracene (aq) Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	1	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.004	0.001	0.001	0.001	0.001	0.004	0.003
Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.004	0.001	1	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.004	0.002
Benzo(a)anthracene (aq)	•	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Chrysene (aq) Renyn(h)filmranthene (an)	0.017 (MAC) (18-2)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	1	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (18.2) 0.017 (MAC) (18.2) 0.0017 (MA) (18.2) MAC (0.27 (1) 0.027 (2))	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	1	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001
Benzo(a)nyrene (ag)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Indeno(1,2,3-cd)pyrene (aq) Dibenzo(a,h)anthracene (aq)	-	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.004	0.001	1	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.004	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Benzo(q,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		0.002		0.002	0.002	0.002	0.002	0.002	0.002	1		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
INORGANICS	mg/I	3.002																					-		0.000	
Dissolved Organic Carbon	6.0000		7.9 7.8						4.9				76		7.7							9 77	$\perp -$	\bot		23.1
pH Alkalinity (Total)	6 - 9 (2&4)		7.8 50	 	-				7.6 85		-		7.6	-	7.7 52	!	-			-	-	7.7		+		7.3 31
Chloride	250 (5)		13	1					21		1		20	1	14				1	1		17	1	1		12
Ammoniacal Nitrogen			0.02						0.06				0.11 0.015		0.05							0.06				12 0.02 0.016
Nitrite Nitrate	EQ.(E)		0.006 0.52	 					0.007		1		0.015	1	0.014	-		-	1	 		0.005	+	4		0.016
Sulphate	50 (5) 250 (5)	 	7.36	+	1				12.30		1		12.54	1	8.05	!	!			+	!	9.88				0.85 7.33
Sulphide	,-,																									
Calcium			19.54						32.71				37.40		16.53							28.26		-		15.10
Potassium Magnesium		1	1.46 3.68	+	+ +	1			2.26 5.98		1	l	2.62 6.79	1	1.78 3.35	 	 			+	 	2.22 5.29	+	++		2.29
Sodium	200(5)		9.65						13.74				14.65		8.20							11.90	t			8.75
Biochemical Oxygen Demand			1.5						1.5				1.5		2.3							2.4				1.5
Chemical Oxygen Demand Conductivity			23	 	-				12 265		-		12 294	-	41 178	!	-			-	-	24 234		+		62 129 0.87
Total Oxidisable Nitrogen		 	207 0.53	+	1				0.94		1		0.89	1	0.66	!	1			+	1	0.58				0.87
Total Phosphorus			0.125						0.125				0.125		0.125							0.125				0.125

The Water Framework Directive (Proutly Sobstances and Classification) Regulations(Riothern Instand) 2015 Freehwater.
 The Water Framework Directive (Proutly Sobstances and Classification) Regulations(Riothern Instand) 2015 Freehwater.
 The Classification of the Classification Regulations(Riothern Instand) 2015 Transitional waters.
 The Classification Riothern Rioth

MAC. This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC. EQS). Where the MAC. EQS are marked as "not applicable", the AA-EQS values are considered protective against short term pollution-peaks in continuous discharges since they are significantly lower than the values derived on the basic of acterbook;

Note: CDDCountiable derived via the Metal Bicavalidatily Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT (Seveloped by WFDTAG. Look at receptor specific assessment using the M-BAT (Seveloped by WFDTAG. Look at receptor specific assessment using the M-BAT (Seveloped by WFDTAG. Look at receptor specific assessment using the M-BAT tool winds July Canad Look of the Metal Biovaribidatily Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool winds July Canad Look of the Section Feed to M-BAT (Section Accordance to Look of the Metal Biovaribidatily Assessment Tool (M-BAT) developed by WFDTAG. Look at receptor specific assessment using the M-BAT tool winds July Canad Look of Look of the Metal Tool winds July Look of Look of the Metal Tool winds July Canad Look of Look of Look of the Metal Tool winds July Look of Loo

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)																								
HEAVY METALS	µg/I		27/10/2021	02/11/2021	09/11/2021	17/11/2021	24/11/2021	20/11/2021	02/12/2021	09/12/2021	14/12/2021	20/12/2021	06/01/2022	10/01/2022	20/01/2022	24/01/2022	02/02/2022	09/03/3033	14/02/2022	21/02/2022	22/02/2022	01/02/2022	09/02/2022	22/02/2022	29/03/2022 24/05/2018	20/05/2019
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		1771071011	01/11/1011	03/11/1011	1//11/1011	0.44	LJ/II/LULI	07/11/1011	0.48	14/11/1011	20)11,1011	00/01/1011	10/01/1011	10/01/1011	0.32	01/01/1011	00)02)2022	14/02/2022	11)02)2022	0.40	01/03/1011	00/03/1011	0.29	13/03/1011	0.50
Cadmium (diss.filt) Chromium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l			-			0.025			0.025						0.025					0.025			0.025 0.125		0.025 0.250
Copper (diss.filt)	1 (AA) bigavailable (see Note 1) (1) (see Note 4) (2)	34.94					1.350			2.153						1.257					2.021			1.100		1.300
Iron (diss.)	1000 (AA) (1&2)						1068			400						397					214			261		20
Mercury (diss.filt) Manganese (diss.filt)	0.07 MAĆ (1&2) 123 (AA) (^{666 1536 1})	276.92					0.0025 40.01435341			0.0025 38.59422187						0.0025 83.77490173					0.0025 39.10349876			0.0025 64.49130966		0.0025 44
Molybdenum (diss.filt)	70 (8) ?																									
Nickel (diss.filt) Lead (diss.filt)	4*************************************	14.98 9.64					1.44			1.23						1.19					1.14 0.177145084			1.08		1.41
Antimony (diss.filt)	5 (5)						0.086038641			0.286623219						0.025					0.1//145084			0.025		0.125
Selenium (diss.filt) Zinc (diss.filt)	10(5) 10.9 (AA) (1) +ABC bioayailable 6.8 (AA) (2) +ABC (************************************	10 37.15					0.10			0.10						0.10					0.10			0.10		0.57
Zinc (diss.nit) Iron (Total)	10.9 (AA) (1) +ABC bloavaliable 6.8 (AA) (2) +ABC	37.15	-	+			2.49			4.24						2.04	ł				2.93	-		1.61		1.67
Manganese (Total)																										
Chromium III (diss.filt) Chromium VI (diss.filt)	4.7 (AA) (1) 95th%ile (32) 3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)			-			0.13 0.025			0.27 0.025						0.13					0.13			0.13 0.025		0.25 0.076
Aluminium (diss.filt)							165.234203			50 0.315						50					50			50		50 2,000
Vanadium (diss.filt)							0.169			0.315						0.101					0.238			0.097		2.000
Phenois Phenois, Total	ug/l 7.7 (1&2) 46 (95th%ile) (1&2)		22.50	22.50	22.50	22.50	22.50	22.50	22.50		22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50		22.50	22.50	22.50	22.50	
Speciated TPH Aliphatics	ug/l																									
Aliphatics EC CS-C6	15000 (7)	+	10	10	10	10	10	10	10		10	10	10	10	10	10	10	10	10	10		10	10	10	10	+
EC>C6-C8	15000 (7)		12.5	12.5	12.5	12.5	12.5	12.5	12.5		12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5		12.5	12.5	12.5	12.5	
EC>C8-C10 FC>C10-C12	300 (7)		7.5	7.5	7.5	7.5	7.5	7.5	7.5		7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5		7.5	7.5	7.5	7.5	-
EC>C12-C16	300 (7)																									
EC>C16-C21																										
EC>C35-C44																										
Aromatics FC CS-C7	10.77)							-	-		- 1	- 1		-		-		,		-			-		1	
EC>C7-O8	700 (7)	+	2.5	2.5	2.5	2.5	2.5	2.5	2.5		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1	2.5	2.5	2.5	2.5	-
EC>C8-C10	300 (7)																									
EC>C10-C12 EC>C12-C16	90 (7) 90 (7)			-																						
EC>C16-C21	90 (7)																									
EC>C21-C35	90 (7) 10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)		0.50	0.50	0.50	0.50	0.50	0.50	0.50		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50		0.50	0.50	0.50	0.50	
Berizene Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		0.50		0.50	0.50	0.50	0.50	0.50		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50		0.50	0.50	0.50	0.50	
Ethylberizene	300 (8)		0.50	0.50	0.50	0.50	0.50	0.50	0.50		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50		0.50	0.50	0.50	0.50	
p/m-Xylene o-Xylene			1.00 0.50	1.00 0.50	1.00 0.50	0.50	0.50	1.00 0.50	1.00 0.50		1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50		1.00 0.50	1.00 0.50	1.00 0.50	1.00 0.50	
Sum of detected Xylenes	500 (8)		1.50	1.50	1.50	1.50	1.50	1.50	1.50		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50		1.50	1.50	1.50	1.50	
Polyaromatic Hydrocabons Naphthalene (aq)	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)		0.019			0.012	0.007	0.006	0.003		0.005	0.010	0.005	0.003	0.008	0.009	0.008	0.007	0.003	0.003		0.009	0.033	0.011	0.019	_
Acenaphthylene (aq)	***************************************		0.001	0.002	0.005	0.001	0.001	0.001	0.001		0.001	0.002	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001		0.003	0.008	0.002	0.005	
Acenaphthene (aq) Fluorene (aq)	-		0.009	0.004	0.004	0.004	0.002	0.003	0.001		0.001	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.002	0.001	l	0.004	0.014	0.003	0.008 0.003	
Phenanthrene (aq)	-		0.002	0.002	0.002	0.002	0.004	0.005	0.002		0.002	0.002	0.011	0.002	0.007	0.002	0.019	0.010	0.006	0.002		0.002	0.010	0.002	0.005	
Anthracene (aq) Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)		0.007	0.007	0.007	0.006	0.001	0.001	0.001		0.001	0.001	0.005	0.001	0.002	0.001	0.003	0.001 0.021	0.001	0.001		0.001	0.001	0.001	0.006 0.001	-
Pyrene (aq)			0.001	0.001	0.032	0.032	0.002	0.003	0.002		0.001	0.001	0.006	0.001	0.010	0.001	0.014	0.011	800.0	0.002		0.002	0.015	0.001	0.001	_
Benzo(a)anthracene (aq) Chrysene (aq)		1	0.001	0.001	0.001	0.001	0.001	0.001	0.001		0.001	0.001	0.001	0.001	0.001	0.001	0.009	0.002 0.002	0.003	0.001		0.001	0.004	0.001	0.001 0.001	
Benzo(b)fluoranthene (aq)	0.017 (MAC) (1&2)		0.001	0.001	0.001	0.002	0.001	0.001	0.002		0.001	0.001	0.001	0.001	0.001	0.001	0.009	0.002	0.005	0.002		0.001	0.006	0.001	0.001	
Benzo(k)fluoranthene (ag)	0.017 (MAC) (1&2)			0.001	0.001	0.002	0.001	0.001	0.001		0.001		0.001	0.001	0.001	0.001		0.001	0.003	0.001		0.001	0.004	0.001	0.001	\perp
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.00017 (AA) (1 & 2) MÁČ (0.27 (1) 0.027 (2))	+	0.015	0.001	0.002	0.001	0.001	0.001	0.001		0.001	0.001	0.001	0.001	0.001	0.001	0.019	0.002	0.006	0.001		0.001	0.006	0.001	0.001 0.001	+
Dibenzo(a,h)anthracene (aq)	A AAAN /HIAN/AN A AAAAN /HIAN/AN			0.002		0.002	0.002	0.002	0.002		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002		0.002	0.002	0.002	0.002	
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		0.002	0.002	0.002	0.002	0.002	0.002	0.002		0.002	0.002	0.002	0.002	0.002	0.002	0.006	0.002	0.005	0.002	_	0.002	0.004	0.002	0.002	
Dissolved Organic Carbon							9.4			10 7.3						6.4					6.1			3.99	2.2 6.7	
pH Alkalinity (Total)	6 - 9 (2&4)	4	1	1			7.5 65	1		7.3 23			1			7.5 68	ļ	1			7.4 31	1	1	7.5 68	6.7	
Chloride	250 (5)			1			17			16						18	1				31			20	24	-
Ammoniacal Nitrogen							0.06			0.05 0.0025						0.08					0.05 0.006			0.05	0.3 0.031	
Nitrite Nitrate	50 (5)	+	 	+			1.02	-		0.0025		-	-	-		0.013 1.74	1	1			0.006 1.15	 	-	0.007	0.031 5.09	
Sulphate	50 (5) 250 (5)						7.46			6.23						11.11					7.96			10.94	2.05	21.60
Sulphide Calcium		-	1	-			14.73			12.22						29.10	-	-			17.42			28.74		0.005 38.30
Potassium	<u> </u>	1	<u> </u>				2.30			2.77						2.37		<u> </u>			2.98	<u> </u>		2.10		3.52
Magnesium	200(5)		1	1			2.67 8.50			2.21 9.31						5.10 12.70					3.37 16.11			4.86 12.58		5.73 14.90
Sodium Biochemical Oxygen Demand	200(5)	+	 	+			8.50 1.5	-		9.31 1.5		-	-	-		12.70	1	.			16.11	 	-	12.58	1.5	14.90
Chemical Oxygen Demand							20			31						12					26			25	10	
Conductivity Total Oxidisable Nitrogen		1		 			215 1.03		-	130 0.84	-				-	236 1.75	 	-		-	200 1.16			247 1.66	310 5.12	-
Total Phosphorus							0.125			0.125						0.125					0.125			0.125	0.125	

The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Instance) 2015 Feathwater.
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 The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Instance) 2015 Feathwater.
 The Water Framework Directive) Regulation Annual Water Directive (Instance) 2015 Feathwater.
 The Water Framework Directive) Regulation Water Directive (Instance) 2015 Feathwater (I

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution-peaks in continuous discharges since they are significantly lower than the values derived on the basic of autoestockity.

Note:

Note: Comparison of the

Sample Point /	TSV	MBAT PNEC											SW9													
Determinands		(ug/l)																								
HEAVY METALS	μq/l		26/05/2018	27/05/2018	25/07/2018	20/08/2018	20/09/2018	03/10/2018	20/11/2018 21/	11/2018 10	0/12/2018 11/12/20	18 09/01/2019	14/01/2019	11/04/2019	29/04/2019	04/07/2019	05/07/2019	15/10/2019	22/01/2020	07/09/2020	01/12/2020	09/03/2021	23/06/2021	23/09/2021	08/12/2021	24/01/2022
Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2) 0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l				0.14	0.50	0.31			0.21		0.16		0.17			0.19	0.22			0.22	0.17	0.16		0.46	
Cadmium (diss.filt) Chromium (diss.filt)	50 (5)			0.025	0.025	0.025	0.025 0.125	0.025		0.025	0.056			0.025			0.025	0.025	0.025	0.025	0.051	0.025	0.025 0.125	0.025 0.125	0.025	0.025 0.125
Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94		0.500	0.500	0.723	3.530	1.030		2.090	3.680	1.394		0.918			1.350	2.180	1.851	2.423	2.052	0.967	0.509	0.549	4.213	1.558
Iron (diss.)	1000 (AA) (1&2)			20	20	20	20	20		20	20	20		20			20	20	20	20	20	20	20	70	57	20
Mercury (diss.filt) Manganese (diss.filt)	0.07 MAĆ (182) 123 (AA) (^{686 7036 1})	276.92		0.0025 99	0.0025 12.5	0.0025 12.5	0.0025 18.94325851	0.0025 51		12.5	0.0025	0.0025 66		0.0025			0.0025 31	0.00514	0.0025	0.0025 54.35996793	0.0025 42.11756677	0.0025 32.12831367	0.0025 37.90759539	0.0025 50.92444615	0.0025	0.0025 33.30171433
Molybdenum (diss.filt)	70 (8) ?			- 77	12.3	12.5	10.74323031	31		12.5	32	- 00					31	~/	34.03343781	34.33990793	42.11/300//	32.12831307	37.30733333	30.32444013	12.5	33.301/1433
Nickel (diss,filt)	4 (MAC) (182)	14.98		0.91	1.06	0.60	1.47	1.22		0.90	1.76			1.18			1.09	1.53	1.35	1.41	1.47	1.10	1.04	0.98	1.53	1.22
Lead (diss.filt) Antimony (diss.filt)	1.2(MAC) (1), 1.3 (AA) (2), 14 (MAC) (1&2) 5 (5)	9.64		0.125	0.125	0.125	0.125	0.125		0.125	0.125	0.125		0.125			0.125	0.125	0.125	0.025	0.224506727	0.025	0.025	0.025	0.059533343	0.025
Selenium (diss.filt)	10(5)	10		0.75	0.58	0.57	1.19	0.73		0.92	1.07	0.70		0.72			0.68	0.93	0.82	0.49	0.42	0.39	0.25	0.10	0.55	0.48
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (100 PC)	37.15		1.12	0.50	9.08	1.59	2.57		1.12	2.56	1.24		1.54			6.57	2.56	2.47	3.63	2.34	1.71	1.13	3.14	3.56	
Iron (Total)																										
Manganese (Total) Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)				0.25	0.25				0.25	0.25			0.25			0.25	0.25		0.13	0.13	0.13	0.13	0.13	0.13	0.13
Chromium VI (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)				0.088	0.073				0.112	0.101			0.101			0.071	0.060		0.085	0.157	0.025	0.101	0.025	0.066	0.099
Aluminium (diss.fit)				20	50	50	50	50		50	50	50		50 0.050			50	50	50	50	50	50	50	50	50	50
Vanadium (diss.filt) Phenols	ug/l	+	1	0.025	0.025	2.000	0.185	0.066		0.059	0.121	0.057	1	0.050				0.082	0.061	0.104	0.080	0.025	0.025	0.025	0.194	0.061
Phenois, Total	7.7 (1&2) 46 (95th%ile) (1&2)		22.50																							
Speciated TPH Aliphatics	ug/l																									
Aliphatics FC C5-C6	15000 (7)	-	10	1									1	1	-											1
EC>06-08	15000 (7)	+	12.5									+	1	+												\vdash
EC>C8-C10	300 (7)		7.5																							
EC>C10-C12 EC>C12-C16	300 (7) 300 (7)		5																							
FC>C16-C21	300 (7)		5																							
EC>C21-C35 EC>C35-C44			5																							-
			5																							
Aromatics FC C5-C7	10 (7)		-																							
EC>C7-08	700 (7)		2.5									_														_
EC>C8-C10	300 (7)		25																							
EC>C10-C12 EC>C12-C16	90 (7)		5 5																							
EC>C16-C21	90 (7)		5	_								_	-	+												
EC>C21-C35	90 (7)		5																							-
Benzene Toluene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)		0.50																							
Ethylbenzene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		0.50																							
p/m-Xylene	333 (4)		1.00																							
o-Xylene	500 (8)		0.50																							
Sum of detected Xylenes Polyaromatic Hydrocabons	500 (8) μg/l																									
Naphthalene (aq)	2 (AA) (1 &2) 130 (MAC 1&2)		0.003																							
Acenaphthylene (aq)			0.001																							
Acenaphthene (aq) Fluorene (aq)	•		0.001											_												
Phenanthrene (aq)	-		0.002																							
Anthracene (aq)	0.1 (AA & MAC) (1 & 2)		0.001																							
Fluoranthene (aq) Pyrene (aq)	0.0063 (AA) (1 & 2) 0.12 (MAC 1)		0.001																							
Benzo(a)anthracene (aq)	-	1	0.001	1								1	1	1						l						\vdash
Chrysene (aq)	•		0.001																							
Benzo(b)fluoranthene (aq) Benzo(k)fluoranthene (aq)	0.017 (MAC) (1&2) 0.017 (MAC) (1&2)	-	0.001										-	 												
Benzo(a)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	1	0.001	1								1	1	1						l						+
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)			0.001																							
Dibenzo(a,h)anthracene (aq) Benzo(g,h,i)perylene (aq)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)	-	0.003	1									1	1	-											
INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		0.002																							
Dissolved Organic Carbon	**				1.4	2.3	4.2	12.4			3.8		1.8		1.8	2.4		2.4	2.1	3.2	2.4	2.3	1.9	2.4	5.7	4.2
pH	6 - 9 (2&4)				6.7	6.7	7	7.3	6.9		6.9		6.7		6.8	6.5		6.6	6.9	6.8	6.6	6.5	6.3	6.5 74	6.9	6.5
Alkalinity (Total) Chloride	250 (5)	-	1	1	63	61	62 74	156 79	63 25		64 26	-1	65	1	64 24	67		75 22	73	69 22	70 27	66 23	62 50	74	65 18	69 23
Ammoniacal Nitrogen	250 (5)				0.02	0.07	0.08	0.8	0.02		0.02		0.05		0.02	0.02		0.15	0.15	0.09	0.17	0.08	0.14	0.12	0.05	0.14
Nitrite					0.036	0.033		0.0025	0.013		0.017		0.023		0.016	0.014		0.007		0.017	0.019	0.005	0.029	0.033	0.006	0.037
Nitrate Sulphate	50 (5) 250 (5)	+	1	21.60	5.11 19.90	4.92 20.20	6.03 29.49	0.03 20.30	5.91	17.10	7.67	18.70	5.29	20.90	5.19	5.31	18.50	4.97 19.30	5 18.00	3.88 17.69	5.79 18.04	1.74	4.96 20.39	3.56 17.74	4.52 14.65	5.24 19.75
Sulphide	250 (5)		1	21.00	0.005	0.005	15.45	20.30		0.005	0.005		1	20.90			20.30	15.50	20.00	47.03	20.04	10.37	23.39	27.79	44.03	20.13
Calcium				43.10	35.10	34.70	40.14	35.10		38.00	40.70	37.60		37.90			37.90	39.90	39.17	37.02	40.03	36.65	37.52	37.24	34.93	39.70
Potassium		+	1	4.28 5.57	2.73 5.49	3.39 5.38	5.07	3.32 5.31		4.04	4.89 5.04		1	3.35 5.47	1		3.44 5.43	4.19 5.48	4.15 5.24	4.49 4.99	4.32 5.37	3.47 5.09	3.13 5.70	3.10 5.12	5.70 4.12	3.96 5.60
Magnesium Sodium	200(S)	+	1	14.00	13.80	14.50	13.49	13.80		4.56 13.50	12.70	13.50	1	14.30	1		5.43 14.00	14.40	13.92	12.70	13.70	13.01	14.15	13.13	11.13	13.92
Biochemical Oxygen Demand					1.5	1.5	1.5	37.0	1.0		2.5		1.0		1.5	2.9		1.5	1.0	1.0	1.0	1.5	2.8	3.5	1.5	1.5
Chemical Oxygen Demand					10	10	10	106	10		34		10		10	10		10	10	23	5	5	28	11	15	5
Conductivity Total Oxidisable Nitrogen		-	1		291 5.15	289 4,95	331 6.05	485 0.03	304 5.92		332 7.69		315 5.31	 	296 5.21	301 5.32		305 4.98	308 5.01	293 3.9	313 5.81	293 1.74	295 4.99	300 3,59	267 4.53	306 5.28
Total Oxidisable Nitrogen Total Phosphorus		1	1	1	0.125	0.125	0.0125	0.39			0.125	1	0.125	1	0.125	0.125		0.125	0.125		0.125	0.125	0.35		0.125	

The Water Framework Directive (Priority Substances and Casofication) Regulations(Riomthern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Casofication) Regulations(Riomthern Ireland) 2015 Freshwater.
 The Water Framework Directive (Priority Substances and Casofication) Regulations(Riomthern Ireland) 2015 Transitional waters.
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MAC. This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS), Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution-peaks in continuous discharges since they are significantly lower than the values defined on the basic of accretional the basic of accretional peaks.

Note: Collocuration devined via the Metal Biovariability Association Tool (M-BAT) developed by WIDTAG. Look at receptor specific association to a trial PRE-Clinicative M-Intro-/view white Au-orgination conformation is extended to an intelligent and conformation of the Metal Security M-Intro-/view white Au-orgination conformation is extended to an intelligent and conformation in the Metal Biovariability Association Tool (M-BAT) developed by WIDTAG. Look at receptor specific association and conformation in the Metal Biovariability Association Tool (M-BAT) developed by WIDTAG. Look at receptor specific association on the Metal Biovariability association in the Metal Biovariability association in the Metal Biovariability association and the Metal Biovariability association in the Metal Biovariability and receptor specific and spe

Sample Point / Determinands	TSV	MBAT PNEC (ug/l)												Trench												
HEAVY METALS Arsenic (diss.filt)	μg/l 50 (AA) (1) 25 (AA (2)		20/08/2018 1.18	0.62	03/10/2018	20/11/2018	0.82	10/12/2018 1	0.39	09/01/2019 14/01/2 1.40	07/02/2019	0.48	27/03/2019	0.48	11/04/2019	29/04/2019	21/05/2019	22/05/2019 1.53	06/01/2020	07/01/2020	0.53	0.38	18/03/2020	03/02/2021	09/03/2021	0.51
Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ >200 mg/l		0.025	0.025	0.025		0.025		0.025	0.025		0.025		0.025	0.025			0.025	0.025		0.025	0.025	0.053	0.025	0.025	0.025
Chromium (diss.filt) Copper (diss.filt)	50 (5) 1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94	0.250	0.125	0.125		0.250		0.250 1.950	0.125	_	0.250 2.500	-	0.250 1.362	0.250	+	-	0.250	0.250	-	0.125	0.125	0.125	0.125 2.335	0.125	0.125
Iron (diss.)	1000 (AA) (1&2)	34.54	140	87	87		103		65	197		75	1	63	225	1		697	690		917	63	20	20	20	389
Mercury (diss.filt)	0.07 MAĆ (182)		0.0025	0.0025	0.0025		0.0025		0.0025	0.0025		0.0025		0.0025	0.0025			0.0025	0.0025		0.0025	0.0025	0.0025	0.0025	0.0025	0.0105
Manganese (diss.filt) Molybdenum (diss.filt)	123 (AA) (#8*7100*1) 70 (8) ?	276.92	2370	83.15200282	1200		2830		153	7040		481.6837286		400.7313439	1430	-		6170	2226.339176		2171.025585	2520	2660	1747.726042	218.7814178	3960
Nickel (diss.filt)	4 (AA) (1), 8.6 (AA) (2), 34 (MAC) (182)	14.98	2.11	2.39	2.15		7.01		4.28	6.30		4.69		4.93	3.62			3.67	3.96		3.52	7.26	7.97	5.40	4.82	5.03
Lead (diss.filt) Antimony (diss.filt)	1.2 ⁽⁴⁸⁾ (2003) (AA) (1), 1.3 (AA) (2), 14 (MAC) (1&2) 5 (5)	9.64	0.125	0.125	0.125		0.125		0.125	0.125	_	0.125		0.125	0.125			0.125	0.125		0.125	0.125	0.053	0.025	0.025	0.025
Selenium (diss.filt)	10(5)	10	0.42	0.38	0.63		1.03		0.59	0.81		0.51	1	0.56	0.62	1		0.52	0.59		0.35	0.52	0.45	0.10	0.10	0.10
Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (100 MONTA)	37.15	2.50	0.50	0.50		6.69		6.99	0.50		7.04		5.46	0.50			1.14	0.68		0.50	9.28	7.43	4.13	0.89	3.11
Iron (Total) Manganese (Total)		+	+	-	-						_	-	-		-	+	-	1		-	+			-		
Chromium III (diss.filt)	4.7 (AA) (1) 95th%ile (32)		0.25				0.25		0.25			0.25		0.25	0.25			0.25	0.25					0.13	0.13	0.13
Chromium VI (diss.filt) Aluminium (diss.filt)	3.4 (AA) (1), 0.6 (AA) (2), 32 (95th%ile) (2)		0.025 50	50			0.025 50		0.025	ro.		0.025 50		0.025	0.025 50			0.025 50	0.025 50		50		50	0.025 50	0.025 50	0.025
Vanadium (diss.filt)		1	2.000	0.025	0.025		0.126		0.062	0.085		0.095		0.025	0.025	1	1	0.061	0.093	1	0.061	0.025	0.025	0.025	0.025	50 0.025
Phenois	ug/l																									
Phenois, Total Speciated TPH	7.7 (1&2) 46 (95th%ile) (1&2) ug/l																									
Aliphatics																										
EC CS-C6 EC>C6-C8	15000 (7) 15000 (7)		 									+		 	 	 	<u> </u>	\vdash		↓ — —	<u> </u>	 	 	\vdash		
EC>C8-C10	300 (7)	+	1		1								1			1										
EC>C10-C12	300 (7)																									
EC>C12-C16 EC>C16-C21	300 (7)	_	-								_					-										
EC>C21-C35 EC>C35-C44		+	1		1								1			1										
Aromatics EC CS-C7	10 (7)			-							_															
EC>C7-C8	700 (7)																									
EC>C8-C10 EC>C10-C12	300 (7) 90 (7)	_	-								_					-										
EC>C12-C16	90 (7)	+	1		1								1			1										
EC>C16-C21 EC>C21-C35	90 (7)																									
Renzene	10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)			-							_															
Berizene Toluene	74 (AA) 95th %ile (380) (1), 74 (AA) 95th %ile (370) (2)																									
Ethylbenzene p/m-Xylene	300 (8)	_	-								_					-										
o-Xylene																										
Sum of detected Xylenes Polyaromatic Hydrocabons	500 (8)																									
Naphthalene (ag)	μg/l 2 (AA) (1 &2) 130 (MAC 1&2)																									
Acenaphthylene (aq)	11111																									
Acenaphthene (aq) Fluorene (aq)	-	+	+	-	-						_	-	-		-	+	-	1		-	+			-		
Phenanthrene (aq)	-																									
Anthracene (aq) Fluoranthene (aq)	0.1 (AA & MAC) (1 & 2) 0.0063 (AA) (1 & 2) 0.12 (MAC 1)		 									+		 	 	 	↓ — —	\vdash		↓ — —	<u> </u>	 	 	\vdash		
Pyrene (aq)															1		1				1					
Benzo(a)anthracene (aq)	-																									
Chrysene (ag) Benzo(b)fluoranthene (ag)	0.017 (MAC) (1&2)	1	+		+			-				1	+	†	+	+	-	1		-	-	+	+	t		
Benzo(k)fluoranthene (aq)	0.017 (MAC) (182)																									
Benzo(a)pyrene (aq) Indeno(1,2,3-cd)pyrene (aq)	0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2))	+	+	1	+				+		_	+	+	 	+	+		1		-	-	+	+	1		
Dibenzo(a,h)anthracene (aq)	-																									
Benzo(q,h,i)perylene (aq) INORGANICS	0.0082 (MAC)(1) & 0.00082 (MAC) (2) mg/l	1																				_	_			
Dissolved Organic Carbon			10.8	10				11.4		18	10.4		7.5			13.4	18			13.1	7.5	4	3.7	6.1	5.5	10.8
pH	6 - 9 (2&4)		7.4	7.3		7.6		7.4		7.7	7.5		7.2			7.5	7.3			7.1	7	7	7.6	6.7	6.8	6.8
Alkalinity (Total) Chloride	250 (5)	-	151	112 21	ł	317 39		179 35		355 10	216 28	+	225 28	-	1	206	231 24	1		260 78	141	160 26	171	140	156 21	179 19
Ammoniacal Nitrogen	250 (5)		0.4	0.33		9.7		4.45		0.04			5.2			0.55	1.74			6.48	1.32	3.47	2.97	2.3	0.52	0.16
Nitrite Nitrate	FO/F)	1		0.018		0.23		0.155			0.053	1	0.024		_		0.0025		_	0.009	0.022	0.061	0.029	0.042	0.021	0.005
Nitrate Sulphate	50 (5) 250 (5)		0.03 21.10	0.07 64.97	41.10	1.19	60.50	3.74	56.10	67.50	3.19	44.69	0.64	49.70	15.30	0.03	0.03	6.45	15.58	0.03	25.50	35.03	0.8 14.03	0.71 25.97	23.05	0.03 10.25
Sulphide			0.005				0.005		0.005			0.005		0.005				0.005	0.02							
Calcium Potassium			56.00 8.54	57.44 10.12	61.90 11.40		101.00 18.70		63.20 12.30	112.00 20.80		69.50 11.63		69.28 8.25	70.50 8.74	 	<u> </u>	69.04	62.39 9.91	↓ — —	54.62 9.06	58.10 7.81	65.50 8.75	51.24 7.40	57.35 6.94	60.96 3.38
Magnesium Sodium			7.49	7.58	9.59		19.60		10.20	19.40		11.68		9.03	10.80		1	10.58	9.06		7.79	8.53	9.95	7.10	7.96	9.08
	200(5)		16.80	14.01	21.60		42.70		25.20	39.20		25.99		23.24	24.10			23.03	18.73		18.70	18.00	20.30	14.06	16.31	18.34
Biochemical Oxygen Demand Chemical Oxygen Demand		+	6.2	8.7 67	 	12.0 77		12.0		6.9	2.2	+	10.0	-	+	10.0	15.0 76	1		15.0 96	2.8	1.5	2.3	6.5 26	1.5 96	6.2 38
Conductivity			392	431		852		621		262	634		616			505	521			628	422	503	505	406	430	430
Total Oxidisable Nitrogen Total Phosphorus			0.03	0.09	1	1.42		3.89	==	0.85 0.12		1	0.66 0.125			0.03		-		0.03	0.42	1.53 0.125	0.83 0.125	0.75	0.41	0.03
i otal Phosphoruš	1	1	0.31	0.32		U.125		0.125		0.12	U.125		0.125			0.125	0.63			0.28	0.125	U.125	0.125	0.125	U.125	0.125

The Water Framework Directive (Priority Substances and Casoffication) Regulations (Northern Ireland) 2015 Feedwater.
 The Water Framework Directive (Priority Substances and Casoffication) Regulations (Northern Ireland) 2015 Feedwater.
 The Water Framework Directive (Priority Substances and Casoffication) Regulations (Northern Ireland) 2015 Transitional water.
 The Casoffication (Water Protecting Water Protected Area.* The North Sand Districts Typology, Standards and Groundwater threshold values (Water Framework Directive) Regulation Water (Water Standard * Robot or The Water Standard * Robot or

MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution-peaks in continuous discharges since they are significantly lower than the values derived on the basic of autoestockity.

Note:

Note: Comparison of the

Sample Point						
Annex. (dis. file)		TSV		Grand Total		
Annex. (dis. file)	HEAVY METALS	ug/I				
Continue (disc. RE)	Arsenic (diss.filt)	50 (AA) (1) 25 (AA (2)		6026.85		
Control Cont	Cadmium (diss.filt)	0.25 (AA) & 1.5 (MAC) (1), 1.5 (AA) (2) CaCO ₃ > 200 mg/l		592.280		
Month Mont		50 (5)				
Month Mont	Copper (diss.filt)	1 (AA) bioavailable (see Note 1) (1) (see Note 4) (2)	34.94	4922.433		
Management (dots 18)	Iron (diss.)	1000 (AA) (1&2)				
Production (Soc. 18)	Mercury (diss.filt)	0.07 MAC (1&2)				
Note Got 197		123 (AA) (********)	276.92	4861.273924		
Loss (dec. (R)		4 (MAC) (182)	14.98	12540.19		
April	Lead (diss.fit)	1.2 (MAC) (1), 1.3 (AA) (2), 14 (MAC) (1&2)				
Time (Bold, Ref)	Antimony (diss.filt)	5 (5)				
Inc. (Total)	Selenium (diss.filt)	10(5)				
Management (Table)	Zinc (diss.filt)	10.9 (AA) (1) +ABC bioavailable 6.8 (AA) (2) +ABC (************************************	37.15			
Ceronium III (data fit)						
Cronsin VI (dot. Rf)	Chromium III (dise filt)	4.7 (A.A.) (1) Offith (Glo /22)				
Automatic (dot 26)	Chromium VI (diss filt)	3.4 (AA) (1) 0.6 (AA) (2) 32 (95th%(le) (2)				
Perceix Perc		2.1(1.1)(1)(1.1)(1.1)(1.1)(1.1)(1.1)(1.1				
Prescriptor Prescriptor				174.078		
Speciated TPH Speciated TP	Phenois	ug/l				
Milyandics				58954.45	25000.00	
ECCS 10 1900(7) 2004.1 ECCS 10 1900(7) 401.569 ECCS 10 1900(7) 401.569 ECCS 10 1900(7) 401.569 ECCS 10 1900(7) 401.569 ECCS 10 1900(7) 401.569 ECCS 10 1900(7) 401.569 ECCS 10 1900(7) 401.569 ECCS 10 1900(7) 401.569 ECCS 10 1900(7) 400.569 iated TPH	ug/I					
EC-CG-CG EC-CG EC-CG-CG EC-CG EC-CG-CG EC-CG EC-CG-CG EC-CG-CG EC-	FC CS-C6	15000 (7)	+	7909.47	-	
EC-CB-CB 300 (7)	EC>06-08	15000 (7)	1			
EC-CIS-CI	EC>C8-C10	300 (7)	1			
CC-CF-CT CT-CF-CF CT-C	EC>C10-C12	300 (7)				
EC-C1-C3		300 (7)				
EC-GS-C41						
According March						
EC-C/LS				2.4493		
EC-CB-C13	EC C5-C7	10 (7)		46093.93832		
CC-CS-C10	EC>C7-08	700 (7)		15683.73361		
BC-CLPCIE	EC>C8-C10			5590.305		
EC-CLE-C15 W0 77		90 (7)				
EC-C21-C35		90 (7)				
Decrease		90 (7)				
Touries (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		10 (AA) MAC 50 (1), 8 (AA) MAC 50 (2)				
phth Notice	Toluene	74 (AA) 95th%ile (380) (1), 74 (AA) 95th%ile (370) (2)		6794.53		
Sylvine		300 (8)				
Sum of detected Netwers Str.						
Note	o-Xylene	E00 /81				
Application (a) 2 (AA) (1.8.2) 130 (MAC.18.2) 1000-549	Polyaromatic Hydrocabons			3339.37		
Account from (as) Account from (as) Account from (as) Account from (as) Present from (as) Account from (as) Account from (as) Account from (as) Account from (as) Account from (as) Account from (as) Account from (as) Account from (as) Account from (as) Account from (as) Perce (as) Perce (as) Benesia (as) B	Nanhthalene (an)	2 (AA) (1 &2) 130 (MAC 1&2)		12004,548		
Pacente (ar)	Acenaphthylene (aq)			1096.515		
Personalization (col.)						
Antifectors (s)	Fluorene (aq)	-	1		1	
Reparation (sq)	Phenanthrene (aq)	0.1 (AA 8 MAP) (1.8.2)				
Pyrote (ac)		0.0063 (AA) (1.8.2) 0.12 (MAC.1)	+			
Description Description		=	1	36.616		
BernatO() Florenthree (a)	Benzo(a)anthracene (aq)	-				
Benoti/ Benotifier (a) 0.0027 (MeC) (18.2) 5.502		-				
Besset Springer (as) 0.00017 (As) (1 a.2) MAC (0.37 (1) 0.027 (2)) 15.286		0.017 (MAC) (1&2)	1		1	
Indexes 2,2 cdpprete 20 -		0.017 (MAC) (1&2) 0.00017 (AA) (1 & 2) MAC (0.27 (1) 0.027 (2)	+			
Observe(c) -			+			
Description (a) Description (b) Description (c) Descriptio		-	1	6.277	1	
HORANICS met/l	Benzo(g.h.i)pervlene (ag)	0.0082 (MAC)(1) & 0.00082 (MAC) (2)		9.676		
gt 6 • 9 (244) 894-51 Abdrifty (1565) 256 (5) Abdrifty		mg/l				
Abatinly (Total)		6 - 9 (284)	-		-	
Cherde 290 (5) 12181-0 (12181-	pri Alkalinity (Total)	0 - 7 (2004)	1		 	
Americal Rivogen 8001.139	Chloride	250 (5)	1		1	
Notice	Ammoniacal Nitrogen					
Salphete 250 (5) 1939-79 Salphete 0.00 (5) 0.00 (5) Calcum 0.00 (5) 0.00 (5) Accessed 0.00 (5) 0.00 (5) Accessed 0.00 (5) 0.00 (5) Softum 2005) 740.13 Softum (5) 740.13 0.00 (5) Oberied Ovgen Demard 0.00 (5) 0.00 (5) Object (6) 0.00 (6) 0.00 (6) Accessed (7) 0.00 (
Salphide	Nitrite					
Cackum 10012-86 1001	Nitrite Nitrate				-	
Potassium 2609.27	Nitrite Nitrate Sulphate					
Magnesium 2006 Magnesium 2006 Magnesium 2006 Magnesium 2006 Magnesium 2006 Magnesium 2006 Magnesium 2006 Magnesium 2006 Magnesium Magn	Nitrite Nitrate Sulphate Sulphide					
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Conductivity 1280654 TO4D (odisable Nitroen 2291.855	Nitrite Nitrate Sulphate Sulphide Calcium Potassium Magnesium Sodium	250 (5)		100126.96 26609.27 20298.48 70412.32		
Total Oxidisable Nitrogen 2291.265	Nitrite Nitrate Sulphate Sulphide Calcium Potassium Magnesium Sodium Biochemical Oxygen Demand	250 (5)		100126.96 26609.27 20298.48 70412.32 84205.3		
Total Okusauri muogri 2231.003	Nürite Nürate Sulphate Sulphide Calcium Potassium Magnesium Sodium Biochemical Oxygen Demand Chemical Oxygen Demand	250 (5)		100126.96 26609.27 20298.48 70412.32 84205.3 188303.5		
	Nitrite Nitrate Sulphate Sulphide Calcium Potassium Magnelium Sodium Biochemical Oxygen Demand Chemical Oxygen Demand Countritly	250 (5)		100126.96 26609.27 20298.48 70412.32 84205.3 188303.5 1280654		

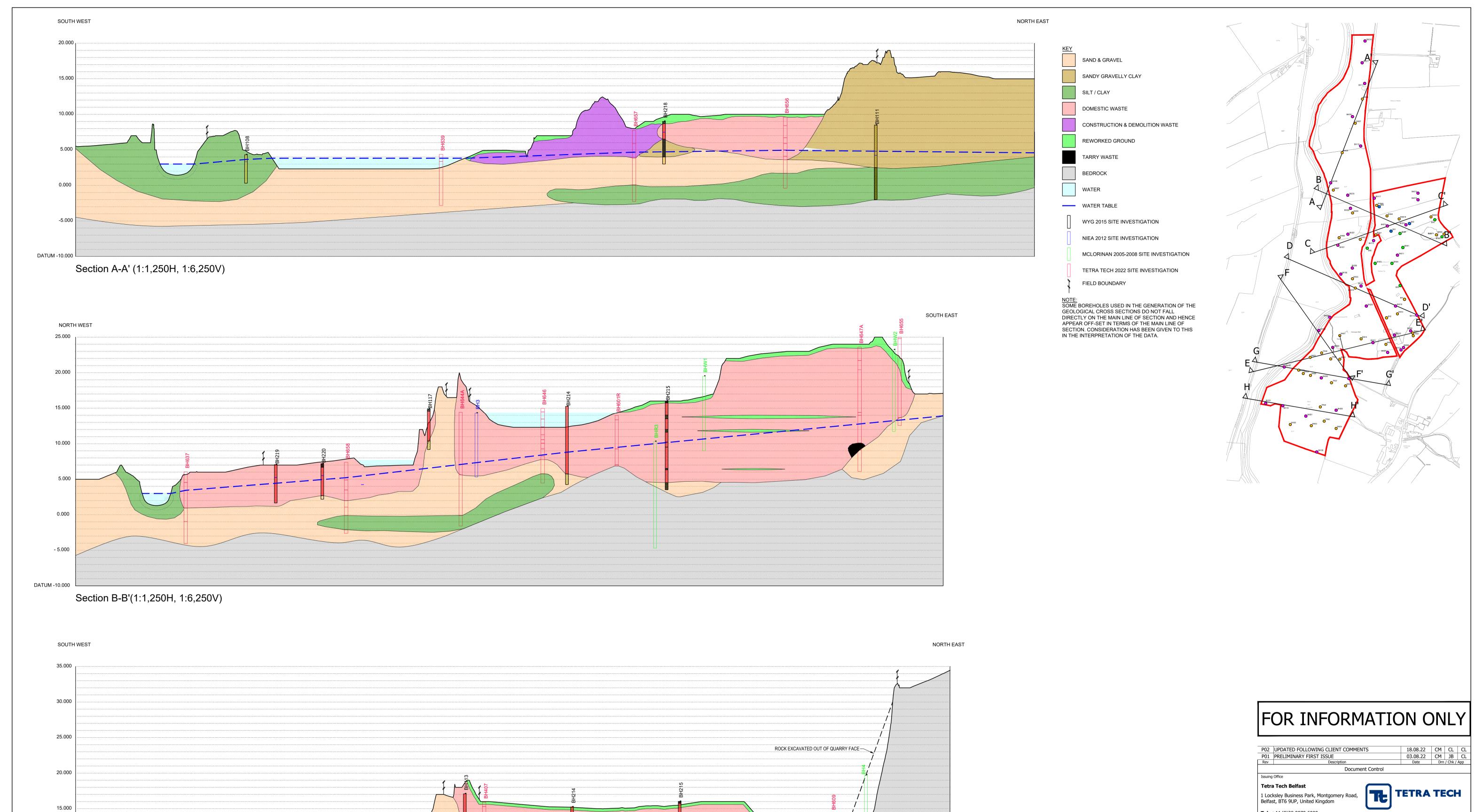
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MAC - This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (MAC-EQS). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are considered protective against short-term pollution-peaks in continuous discharges since they are significantly lower than the values devined on the basic of acceleration.

Note:

Note: 1 Collocovaliable derived via the Metal Bioavaibability Assessment Tool (M.BAT) developed by WTDTAL Look at receptor specific assessment using the Martine Collocoval Collocov

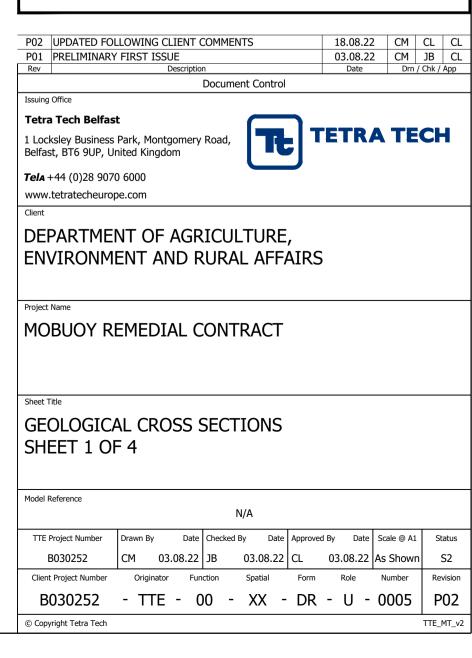
APPENDIX 14 -GEOLOGICAL SECTIONS

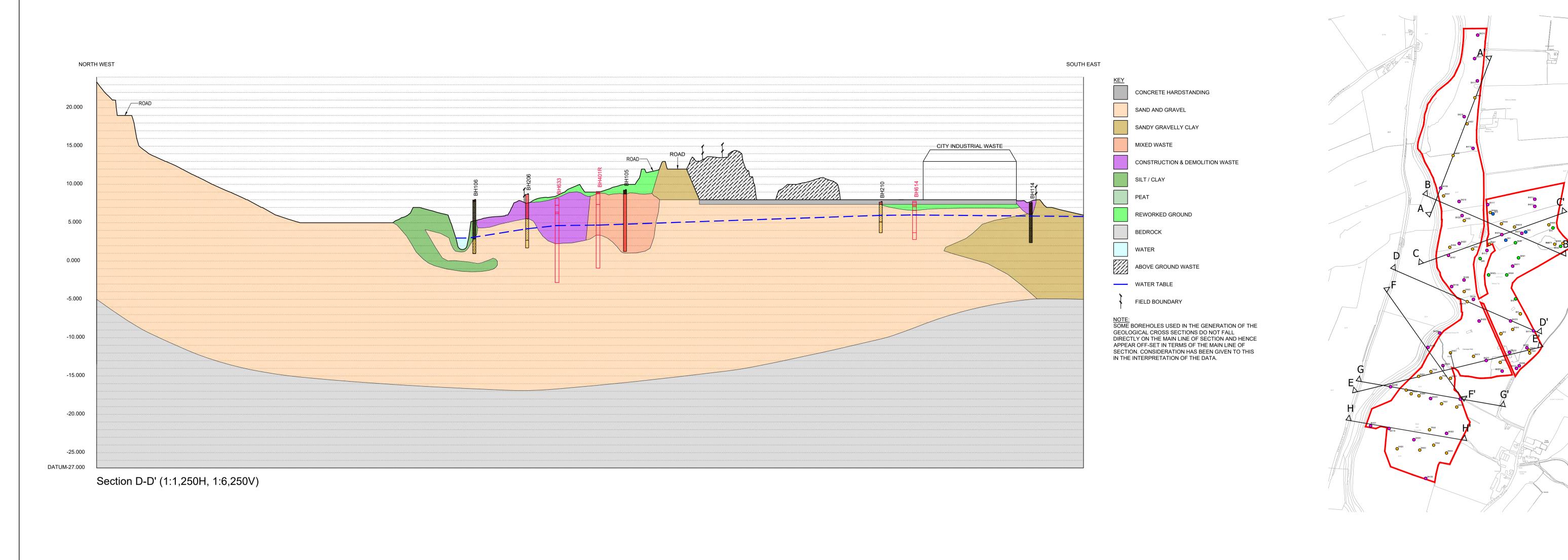


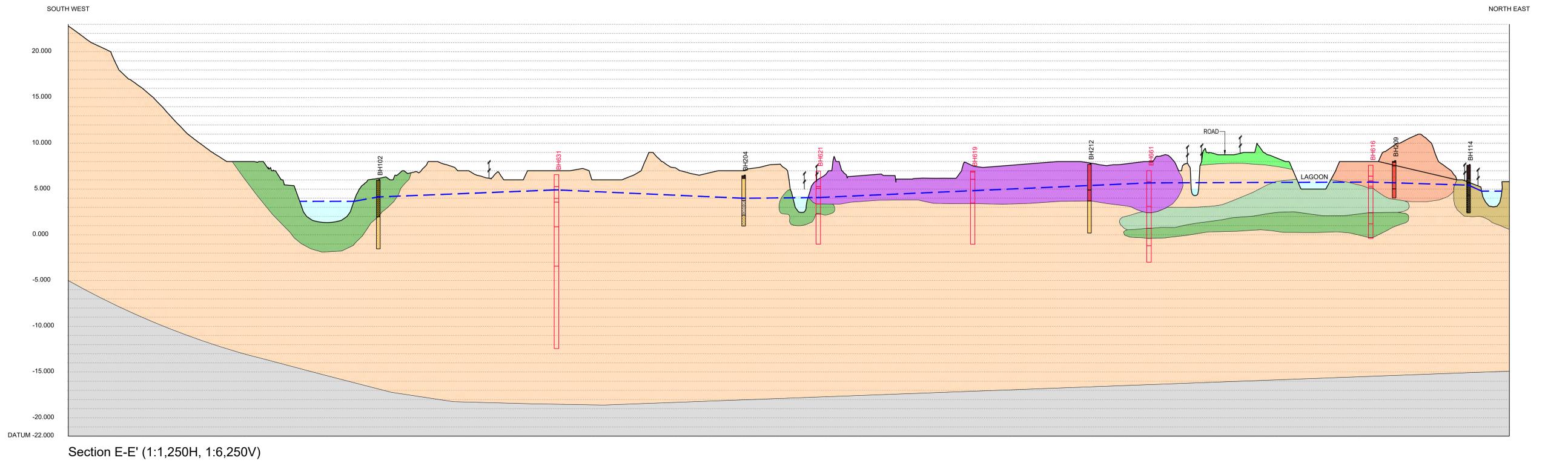
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Section C-C' (1:1,250H, 1:6,250V)







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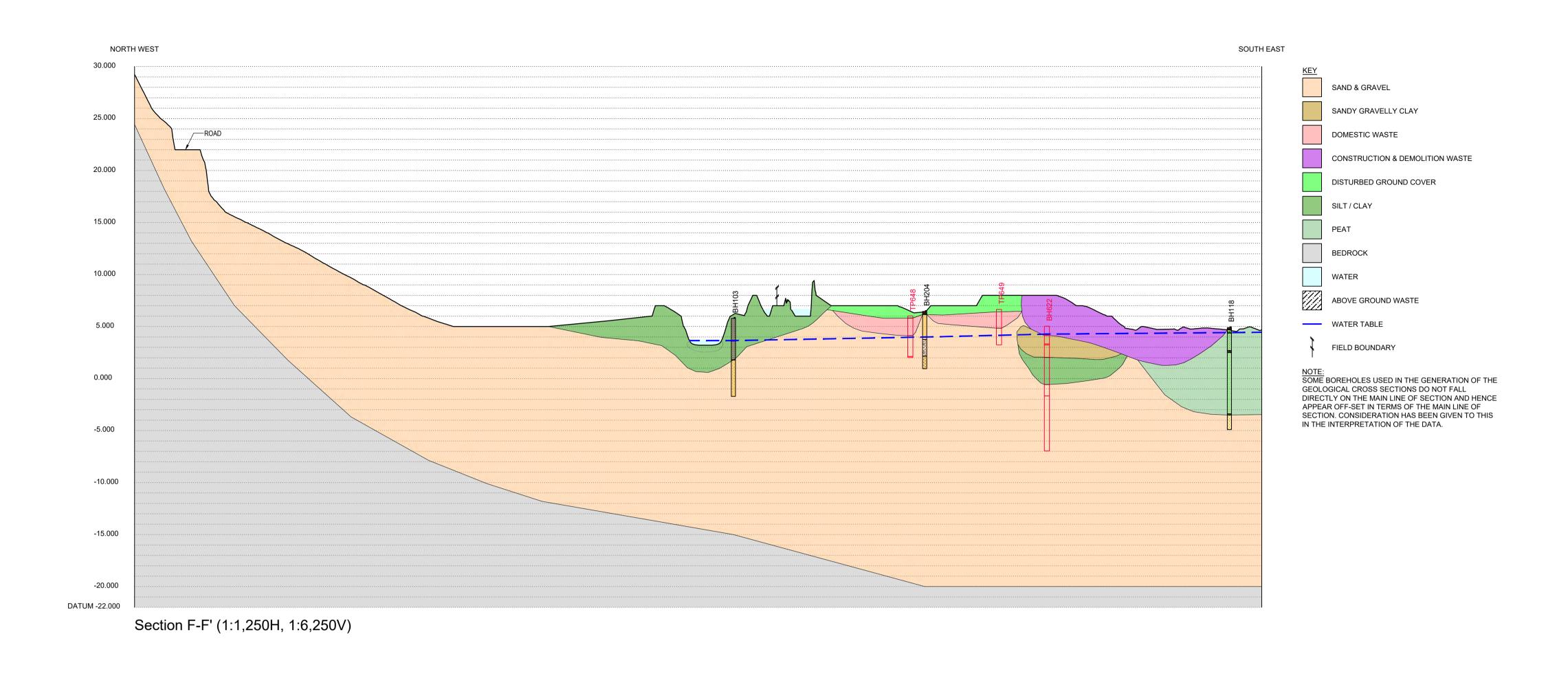
DEPARTMENT OF AGRICULTURE, ENVIRONMENT AND RURAL AFFAIRS

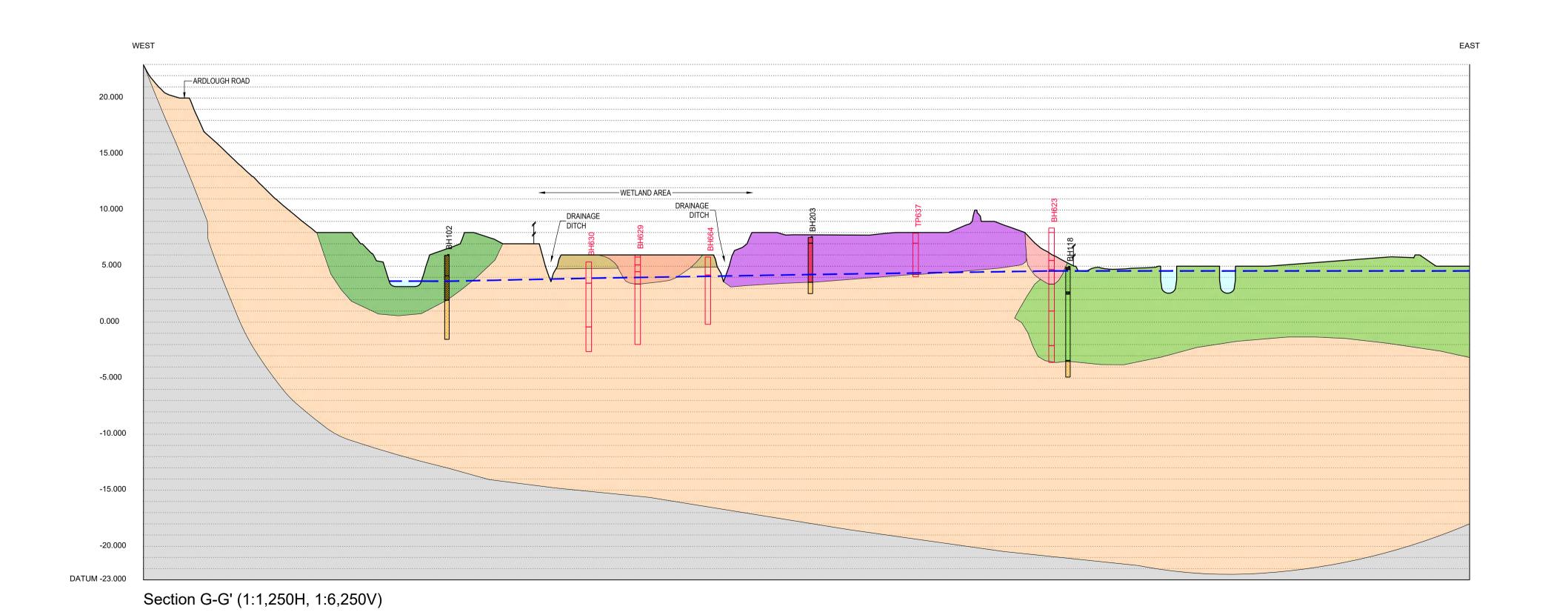
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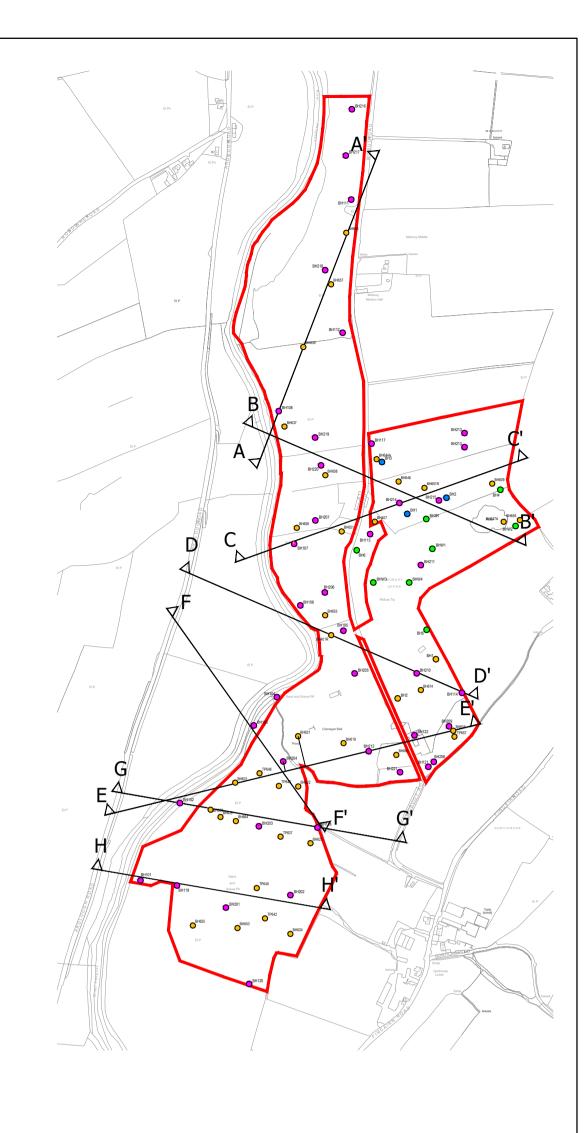
MOBUOY REMEDIAL CONTRACT

GEOLOGICAL CROSS SECTIONS SHEET 2 OF 4

Model Reference									
				N/A					
TTE Project Number	Drawn By	Date	Checked	By Dat	te Ap	proved By	Date	Scale @ A1	Status
B030252	CM 03.	08.22	JB	03.08.2	2 CI	_ 0	3.08.22	As Shown	S2
Client Project Number	Originator	Fun	ction	Spatial	F	orm	Role	Number	Revision
B030252	- TTE	- C	0 -	XX	- [OR -	U -	0006	P02
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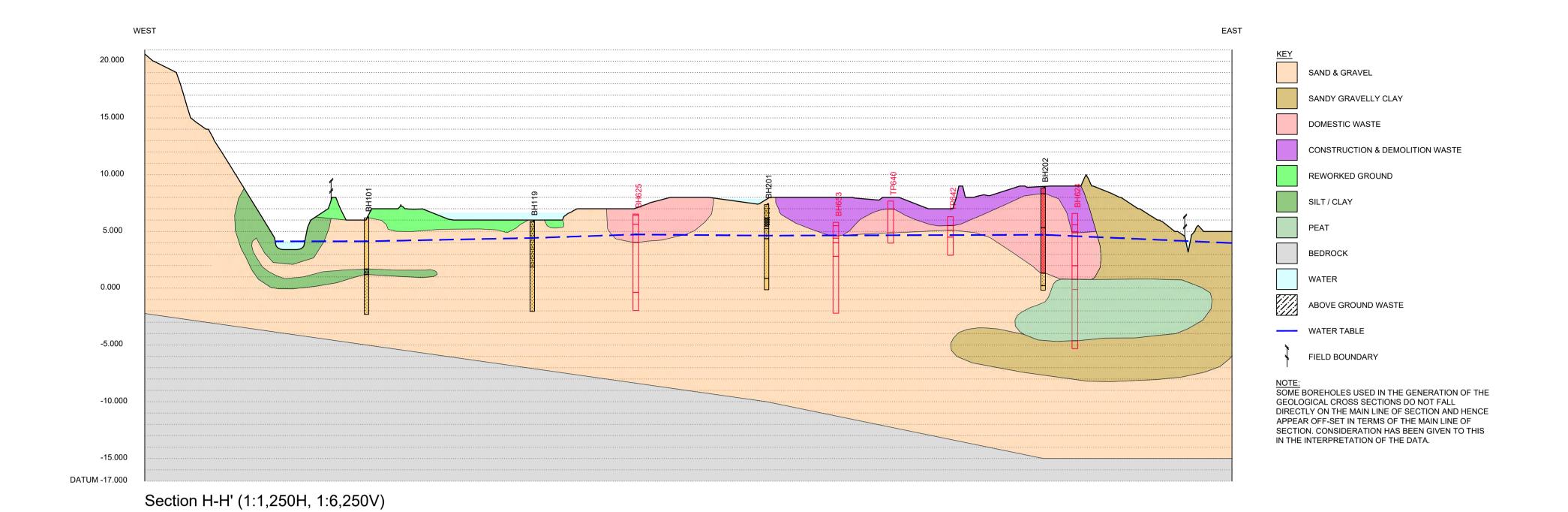
DEPARTMENT OF AGRICULTURE, ENVIRONMENT AND RURAL AFFAIRS

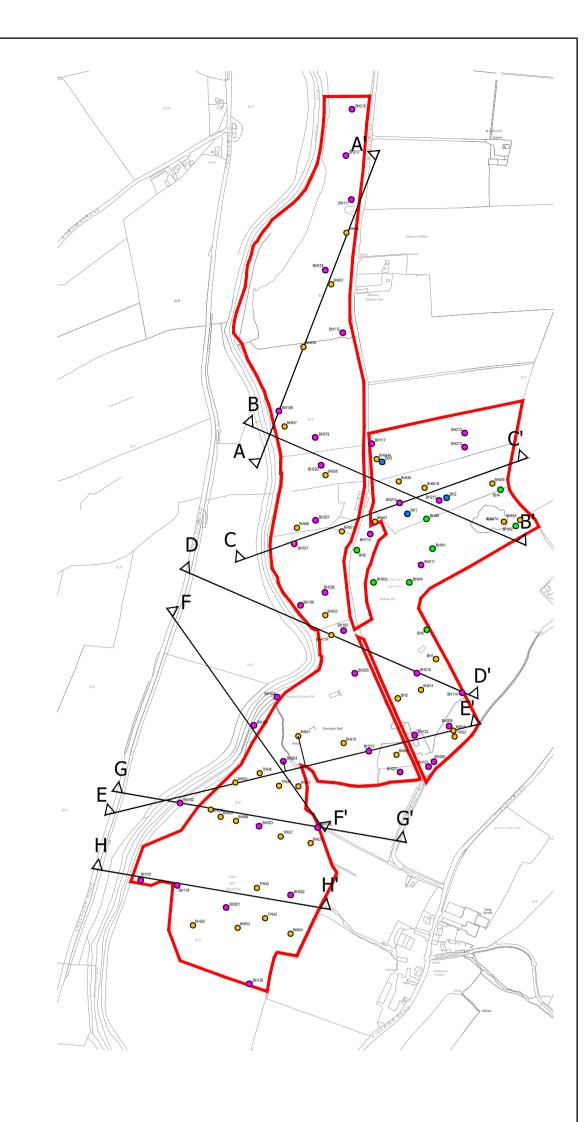
Project Name

MOBUOY REMEDIAL CONTRACT

GEOLOGICAL CROSS SECTIONS
SHEET 3 OF 4

Model Reference								
			ľ	N/A				
TTE Project Number	Drawn By	Date	Checked	By Date	Approved E	By Date	Scale @ A1	Status
B030252	СМ	03.08.22	JB	03.08.22	CL	03.08.22	As Shown	S2
Client Project Number	Origina	tor Fun	ction	Spatial	Form	Role	Number	Revision
B030252	- TTI	E - C	0 -	XX -	DR ·	- U -	0007	P02
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Project Name

MOBUOY REMEDIAL CONTRACT

GEOLOGICAL CROSS SECTIONS
SHEET 4 OF 4

 Model Reference

 N/A

 TTE Project Number
 Drawn By
 Date
 Checked By
 Date
 Approved By
 Date
 Scale @ A1
 Status

 B030252
 CM
 03.08.22
 JB
 03.08.22
 CL
 03.08.22
 As Shown
 S2

 Client Project Number
 Originator
 Function
 Spatial
 Form
 Role
 Number
 Revision

 B030252
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 P02

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APPENDIX 15 – WATER MASS BALANCE MODEL FILES

DIGITAL APPENDIX

APPENDIX 16 – CONSIM AND RTM MODEL FILES

DIGITAL APPENDIX

APPENDIX 17 – DERIVATION OF SITE SSAC FILES

DIGITAL APPENDIX

APPENDIX 18 – SSAC SCREENING SUMMARY SHEET

Source Area 1,2,3

	Compliance Target		Water Balance RTC				Predicted Travel	
coc	(mg/L)	ConSim RTC (mg/L)	(mg/L)	Min	Average	Max	Time (years)	Risk Rating
Arsenic	5.00E-02	1.09E-01	5.95E+01	3.60E-04	1.10E-02	1.10E-01	9870	Low
Boron	1.00E+00	1.00E+00	5.45E+02	1.80E-02	6.15E-01	2.60E+00	69	Low
Copper	3.49E-02	3.50E-02	1.90E+01	5.60E-04	5.30E-03	3.10E-02	1976	Negligible
Mercury	7.00E-05	1.21E-03	6.57E-01	2.50E-05	9.75E-05	1.70E-04	17020	Negligible
Nickel	1.50E-02	3.53E-02	1.92E+01	8.80E-04	2.96E-02	1.70E-01	9870	Low
Zinc	3.72E-02	3.72E-02	2.02E+01	4.00E-03	2.90E-02	1.30E-01	753	Low
Aromatic EC10 - EC12	9.00E-02	2.00E-01	1.09E+02	5.00E-04	2.80E-01	4.20E-01	5.7	Moderate
Toluene	7.40E-02	3.15E+00	1.71E+03	1.00E-03	4.55E-02	9.00E-02	3.0	Negligible
Naphthalene	2.00E-03	6.90E-03	3.75E+00	4.90E-04	2.50E-02	2.30E-01	3.7	Moderate
Ammonia	3.00E-01	5.56E-01	3.02E+02	1.50E-01	2.56E+00	1.60E+01	13	Moderate
Chloride	2.50E+02	2.50E+02	1.36E+05	1.90E+01	1.65E+02	7.50E+02	3.0	Low
Cyanide	1.00E-03	1.00E-03	5.45E-01	2.50E-03	7.75E-03	1.30E-02	2.8	Moderate

Source Area 3,8

	Compliance Target		Water Balance RTC				Predicted Travel	
coc	(mg/L)	ConSim RTC (mg/L)	(mg/L)	Min	Average	Max	Time (years)	Risk Rating
Boron	1.00E+00	1.01E+00	1.65E+03	3.10E-01	7.60E-01	1.30E+00	19	Low
Mercury	7.00E-05	7.01E-05	1.14E-01	2.50E-05	5.25E-05	8.00E-05	18	Low
Nickel	1.50E-02	1.52E-02	2.48E+01	3.80E-03	2.20E-02	6.00E-02	2959	Moderate
Zinc	3.72E-02	3.72E-02	6.07E+01	3.10E-03	8.50E-01	1.10E+01	225	Moderate
Amagastica FCF 7	1 005 03	1 005 03	1 (25.01	1 105 01	2.625.04	7 505 01	1.1	D. A. e. d. a. v. a. t. a.
Aromatics EC5 -7	1.00E-02			1.10E-01		7.50E-01		Moderate
Aromatics EC8 -10	3.00E-01		1.21E+02	1.50E-01	1.05E+00	6.40E+00		Moderate
Aromatics EC10 -12	9.00E-02	1.09E-01	4.90E+02	8.00E-02	1.32E+00	5.50E+00	2.0	Moderate
Aromatics EC12 -16	9.00E-02	1.11E-01	1.63E+01	1.00E-02	9.20E-01	4.50E+00	2.1	Moderate
Aromatics EC16 -21	9.00E-02	9.48E-02	5.94E+02	2.10E-02	9.60E-02	2.20E-01	2.4	Moderate
Aromatics EC21 -35	9.00E-02	9.00E-02	1.78E+02	7.20E-02	8.30E-02	9.40E-02	1.0	Low
Benzene	1.00E-02	1.00E-02	1.80E+02	1.70E-02	3.20E+00	9.70E+00	1.1	Moderate
Toluene	7.40E-02	7.40E-02	1.55E+02	4.90E-03	3.70E-01	1.00E+00	1.3	Moderate
Ethylbenzene	3.00E-01	3.00E-01	1.47E+02	1.50E-02	3.40E-01	1.40E+00	1.0	Moderate
Naphthalene (aq)	2.00E-03	2.00E-03	3.26E+00	9.80E-04	3.80E-01	1.50E+00	1.2	Moderate
Anthracene (aq)	1.00E-04	1.13E-04	1.85E-01	4.00E-04	1.20E-03	2.20E-03	5.4	Moderate
Fluoranthene (aq)	6.30E-06	7.04E-06	1.15E-02	8.40E-04	1.00E-03	2.30E-03	5.3	Moderate
Ammonia	3.00E-01	3.57E-01	6.04E+02	1.10E-01	2.50E-01	3.50E-01	2.50E+00	Negligible

	Compliance Target		Water Balance RTC				Predicted Travel	
coc	(mg/L)	ConSim RTC (mg/L)	(mg/L)	Min	Average	Max	Time (years)	Risk Rating
Cadmium	9.00E-05	9.13E-05	1.35E-01	1.10E-04	1.10E-02	2.50E-04	2283	Moderate
Nickel	1.50E-02	1.62E-02	2.40E+01	4.20E-03	1.03E-02	1.50E-02	3885	Negligible
Zinc	3.72E-02	3.72E-02	5.52E+01	7.50E-03	6.23E-02	1.20E-01	308	Moderate
Aromatic EC5 - 7	1.00E-02	2.81E-02	4.00E+01	3.60E-02	3.60E-02	3.60E-02	1.2	Moderate
Aromatic EC10 - 12	9.00E-02	1.33E-01	3.67E+02	3.70E-02	1.37E-01	3.10E-01	2.2	Moderate
Aromatic EC12 -16	9.00E-02	1.33E-01	7.13E+02	4.10E-02	1.84E-01	3.40E-01	3.0	Moderate
Aromatic EC16 -21	9.00E-02	9.99E-02	4.17E+01	2.90E-02	6.45E-02	1.00E-01	5.7	Low
Benzene	1.00E-02	2.70E-02	1.97E+02	6.30E-02	4.47E+00	1.30E+01	1.2	Moderate
Toluene	7.40E-02	2.47E-01	1.97E+02	7.70E-03	2.20E-01	6.20E-01	1.3	Low
Ethylbenzene	3.00E-01	4.81E-01	1.48E+02	1.00E-01	1.13E+00	1.70E+00	18	Moderate
Napthalene	2.00E-03	3.65E-03	5.41E+00	1.10E-03	3.00E-01	1.60E+00	1.5	Moderate
Anthracene	1.00E-04	1.26E-04	1.87E-01	4.80E-04	1.30E-03	2.40E-03	7.5	Moderate
Fluoranthene	6.30E-06	7.86E-06	1.17E-02	4.80E-04	1.40E-03	2.50E-03	7.3	Moderate
Ammonia	3.00E-01	4.07E-01	6.04E+02	7.50E-05	5.00E-04	1.10E-03	5.3	Negligible

	Compliance Target		Water Balance RTC				Predicted Travel	
coc	(mg/L)	ConSim RTC (mg/L)	(mg/L)	Min	Average	Max	Time (years)	Risk Rating
Cadmium	9.00E-05	9.04E-05	7.37E-02	1.30E-04	4.00E-04	9.30E-04	2188	Moderate
Nickel	1.50E-02	1.57E-02	1.28E+01	2.10E-03	9.10E-03	2.60E-02	4445	Low
Zinc	3.72E-02	3.72E-02	3.03E+01	3.90E-03	2.10E-02	4.00E-02	339	Low
Benzene	1.00E-02	2.94E-02	2.40E+01	8.30E-03	2.11E-02	4.30E-02	1.2	Low
Napthalene	2.00E-03	3.57E-03	2.91E+00	2.50E-04	7.30E-03	3.20E-02	1.6	Moderate
Chloride	2.50E+02	2.50E+02	2.04E+05	2.80E+01	1.18E+02	3.20E+02	1.0	Low
Ammonia	3.00E-01	3.99E-01	3.26E+02	2.40E-01	3.47E+00	1.30E+01	5.8	Moderate
Cyanide	1.00E-03	1.00E-03	8.17E-01	1.00E-02	1.30E-02	1.60E-02	134	Moderate

	Compliance Target		Water Balance RTC				Predicted Travel	
coc	(mg/L)	ConSim RTC (mg/L)	(mg/L)	Min	Average	Max	Time (years)	Risk Rating
Cadmium	9.00E-05	9.09E-05	7.06E-02	1.30E-04	3.00E-04	6.20E-04	803	Moderate
Nickel	1.50E-02	1.56E-02	1.21E+01	5.50E-04	7.70E-03	2.50E-02	1608	Low
Zinc	3.72E-02	3.72E-02	2.89E+01	2.60E-03	4.62E-02	1.60E-01	122	Moderate
Toluene	7.40E-02	7.40E-02	5.76E+01	1.00E-03	4.45E-03	7.90E-03	0.5	Negligible
Cyanide	1.00E-03	1.00E-03	7.78E-01	2.50E-03	9.25E-03	1.60E-02	49	Moderate

	Compliance Target		Water Balance RTC				Predicted Travel	
coc	(mg/L)	ConSim RTC (mg/L)	(mg/L)	Min	Average	Max	Time (years)	Risk Rating
Cadmium	9.00E-05	9.01E-05	1.18E-01	5.50E-05	1.75E-04	2.00E-04	44	Moderate
Nickel	1.50E-02	1.50E-02	1.96E+01	1.50E-03	2.30E-02	5.50E-02	75	Moderate
Zinc	3.72E-02	3.72E-02	4.86E+01	5.30E-03	3.50E-02	9.30E-02	5.7	Low
Chloride	2.50E+02	2.50E+02	3.27E+05	4.70E+01	2.97E+02	9.80E+02	0.02	Moderate
Ammonia	3.00E-01	3.00E-01	3.92E+02	1.60E-01	4.10E-01	1.20E+00	0.10	Moderate

	Compliance Target		Water Balance RTC				Predicted Travel	
coc	(mg/L)	ConSim RTC (mg/L)	(mg/L)	Min	Average	Max	Time (years)	Risk Rating
Nickel	1.50E-02	1.60E-02	4.36E+00	9.00E-04	4.60E-03	2.30E-02	2198	Low
Zinc	3.72E-02	3.72E-02	1.01E+01	3.00E-03	2.80E-02	1.60E-01	167	Low
Ammonia	3.00E-01	3.90E-01	1.06E+02	7.50E-02	2.35E-01	4.90E-01	2.8	Low
Cyanide	1.00E-03	1.00E-03	2.72E-01	5.50E-03	8.25E-03	1.10E-02	0.60	Moderate

APPENDIX 19 - SURFACE WATER LEVEL LOGGER DATA OUTPUTS

Surface Wate Level Logger Data

