Net Zero Teesside

Deposit for Recovery Permit Application
Environmental Setting and Site Design Report

Net Zero Teesside Power Limited

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Quality information

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Glossary

Acronym	Definition
AOD	Above Ordnance Datum
BGS	British Geological Society
BTEX	Benzene, Toluene, Ethylbenzene and Xylene
CCGT	Closed Circuit Gas Turbine
CCTV	Closed Circuit Television
CCUS	Carbon Capture Use and Storage
CEMP	Construction Environmental Management Plan
CO_2	Carbon Dioxide
CQA	Construction Quality Assurance
CSM	Conceptual Site Model
DCO	Development Consent Order
DfR	Deposit for Recovery
EA	Environment Agency
EPR	Environmental Permitting Regulations
ESSD	Environmental Setting and Site Design
GI	Ground Investigation
HRA	Hydrogeological Risk Assessment
HV	High Voltage
LEP	Local Enforcement Position
MAGIC	Multi Agency Geographic Information for the Countryside
mbgl	Metres Below Ground Level
MMD	Monthly Manual Dip
MWe	Mega Watt electrical
NISP	Nationally significant Significant infrastructure Infrastructure project Project
NVZ	Nitrate Vulnerable Zone
NWL	Northumbrian Water Limited
NZT	Net Zero Teesside
NZTPL	Net Zero Teesside Power Limited
PCC	Post Combustion Capture
SAC	Special Area of Conservation
SI	Site Investigation
SPA	Special Protection Area
SPZ	Source Protection Zone
SSSI	Site of Special Scientific Interest
STDC	South Tees Development Corporation
TCF	Temporary Construction Facility
WFD	Water Framework Directive
WMP	Water Management Plan
WRP	Waste Recovery Plan

1. Introduction

1.1 Report Context

AECOM Limited (AECOM) has been commissioned by Net Zero Teesside Power Limited ('NZTPL'), referred to as 'the Operator', to prepare the application for an environmental permit for a Deposit for Recovery (DfR) operation during the construction phase of the Net Zero Teesside Project.

1.2 Background

Net Zero Teesside (NZT) is a low carbon electricity generating station, which forms part of a proposed Carbon Capture, Utilisation and Storage (CCUS) project located in Redcar, Teesside. It will be the UK's first commercial scale, full chain CCUS project and received a Development Consent Order (DCO) in February 2024. It is a Nationally Significant Infrastructure Project (NISP) which includes the construction and operation of a new gas-fired electricity generating station with post-combustion carbon capture (PCC) and CO_2 compression plant. It has a gross electrical output of up to 860 MWe and associated connections for natural gas, water, electricity and to a CO_2 pipeline network for the capture and storage of CO_2.

Prior to the construction of the facility, the land on which the PCC installation will be developed (Main Site) was subject to remediation by the landowner, South Tees Development Corporation (STDC). This involved the excavation, processing, testing and redeposit of excavated waste at the site under:

a. Planning approval R/2021/1048/FFM, with Remediation Verification Report submitted under R/2024/0817/CD; and
b. A Local Enforcement Position (LEP) issued by the Environment Agency (EA) (reference STDC/NZT/LEP, issued on the 19th June 2023 and extended on the 25th June 2024).

The STDC remediation involved the following works:

- demolition of existing structures within the Teesworks site: principally the former raw materials handling facility, sinter plant and conveyor systems;
- excavation of an agreed thickness of the made ground to remove unsuitable/contaminated materials including removal and crushing of derelict underground structures and obstructions within that depth;
- targeted removal of deeper underground structures;
- crushing and grading of suitable material to form a geotechnical material complaint with requirements in the Highways Spec series 600; and
- testing followed by placement and compaction of suitable material to form appropriate platform levels for development.

The LEP permitted the redeposit of up to 1,252,000 m^3 of excavated remediated waste to provide for the reclamation or improvement to land as detailed in the submitted Waste Recovery Plan (WRP)[1]. The STDC works associated with this LEP and WRP completed in October 2024 creating the development platform on which the PCC facility will be built. As a result, the waste material being considered for recovery under this application has already been lifted, processed and redeposited as part of the remediation works. The construction of the facility will also generate deeper made ground and natural, site won materials which will be sent for off-site disposal.

1.3 Proposed Recovery Operations

Following completion and validation/verification of the remediation works, NZTPL will lease the site, and the construction of the facility is anticipated to commence during Quarter 2 of 2025 with a construction schedule lasting approximately 4 years.

The construction of the facility is expected to involve a number of works which will generate excavated material comprising previously remediated and redeposited materials. There are opportunities to recover previously remediated excavated materials to deliver aspects of the construction scheme which in turn will reduce the volume

[1] Atkins, Land West of Warrenby Waste Recovery Plan, ref: LWWX-ATK-EEI-NZTXX-RP-EN-000001, 16 May 2023

of excavated material sent for off-site disposal and reduce the need for the import of virgin material. It is understood that such material reuse must be completed under a Deposit for Recovery (DfR) permit.

The Operator intends to reuse excavated material from construction earthworks to refill, level and raise the Site and reduce the volume of excavated material being taken off site for disposal. There is also the potential to reuse excavated material from pipeline and cable construction within the installation boundary to refill pipeline and cable excavations.

There is also the potential need to treat excavated material either through screening and/or crushing operations prior to its reuse on site and these waste treatment operations are also included as part of this application.

1.4 Scope of this Report

This document is the Environmental Setting and Site Design (ESSD) report which is being prepared to support the environmental permit application for the DfR activity. It has been prepared to meet the latest Environment Agency Guidance "*Landfill Operators: Environmental Permits – What to Include In Your Environmental Setting and Site Design Report",* Published 30 January 2020 and updated on 17 January 2024.

The ESSD details the specific source-pathway-receptor linkages and presents the conceptual site model (CSM) for the site and should be read in conjunction with other supporting application information.

2. ESSD Overview

2.1 Report Context

2.1.1 The Operator

Net Zero Teesside Power Limited
Net Zero Teesside Carbon Capture, Utilisation and Storage (CCUS) Project
South Tees Development Corporation
Redcar
TS10 5QW

2.1.2 The Agent

AECOM Limited
Royal Court
Basil Close
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S41 7SL

AECOM Limited is the Agent acting on behalf of NZT Power Limited.

2.1.3 Proposed Deposit For Recovery Activity In Relation To Previous Land Use

The entirety of the PCC site is reclaimed land from mudflats and marshland of the Tees Estuary in the 19th and 20th centuries and is relatively flat. The Site is located within the former Redcar steelworks site in Redcar, Teesside. The land was specifically used for iron and steel manufacture, together with associated ancillary development. The former steelworks shut in October 2015 and the Site comprised generally large-scale redundant plant and buildings (such as the raw materials handling facility, the sinter plant and extensive conveyor systems), with large open land areas that were previously utilised for raw materials storage and processing.

Slag rich Made Ground which is a by-product of the Teesworks site former use for production of iron and steel, was placed to re-develop and raise the Site and wider area (including on the dunes to the north) from the mudflats and marshland.

The land surface prior to remediation in May 2023 was predominantly slag with some relict structures from the former steel works. The PCC Site was remediated by STDC which levelled and appropriately remediated the Site, under a LEP (ref: STDC/NZT/LEP) issued by the EA. This remediation has been completed and the current status of the Site at the time of writing is of a relatively level development platform at 7.3m AOD elevation.

Following completion and validation/verification of the remediation works, NZTPL will lease the site, and the construction of the facility is anticipated to commence with a construction schedule lasting approximately 4 years. The construction of the facility is expected to involve a number of works which will generate a volume of excavated material comprising both previously remediated and redeposited materials and natural materials

The Operator intends to reuse excavated material from construction earthworks to refill, level and raise the Site and reduce the volume of excavated material being taken off site for disposal. There is also the potential to reuse excavated material from pipeline and cable construction within the installation boundary to refill pipeline and cable excavations.

2.2 Site Details

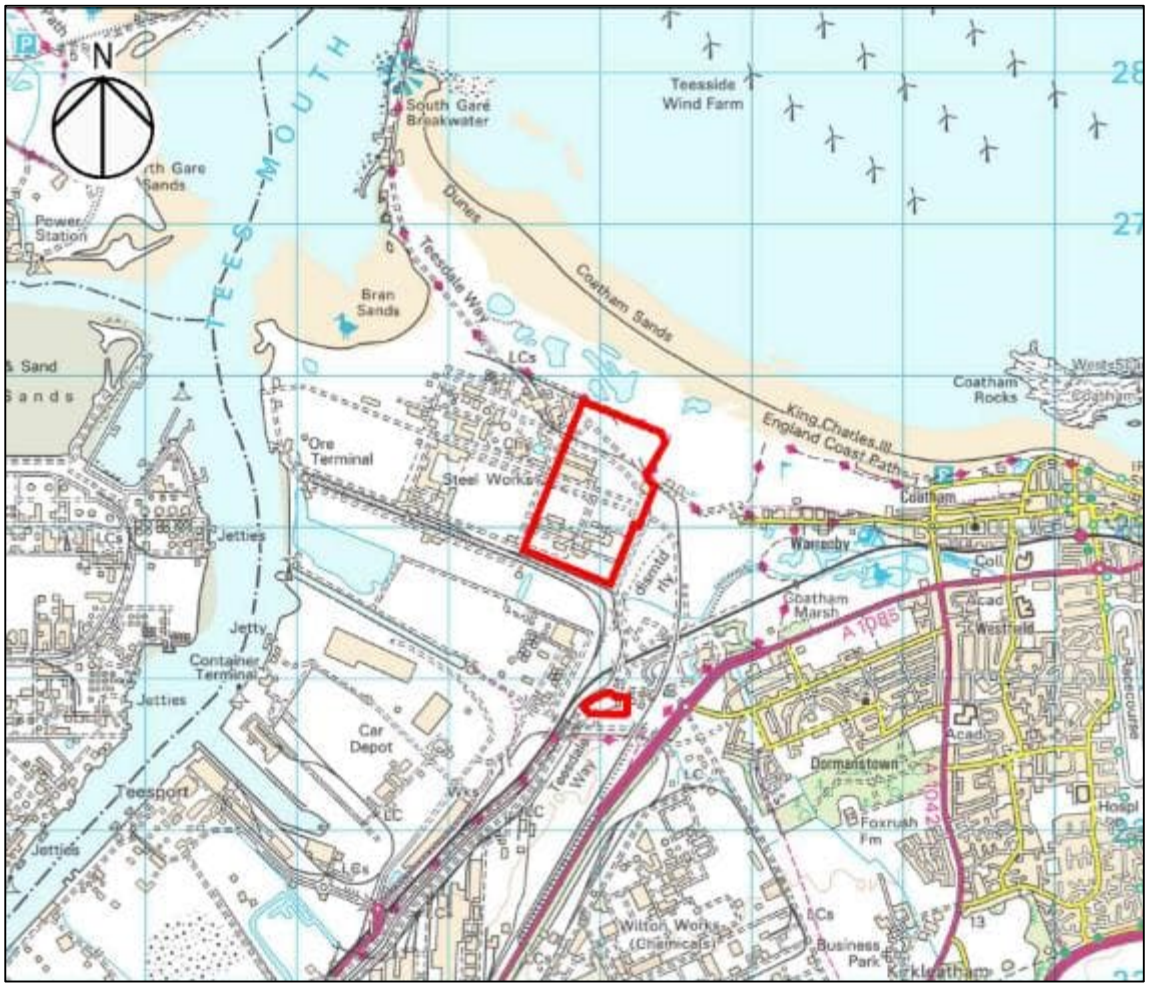
2.2.1 Site Location and Access

The installation boundary covers two discrete areas where reuse of material will take place:

- PCC Site is the primary area of the DfR activity and encompasses the areas associated with the construction and installation of the main NZT production facility; and
- Tod Point a smaller area located to the southeast which will be used for construction and installation of the substation.

The Site is located within the former Redcar steelworks site in Redcar, Teesside. The location of the proposed site is shown in figure 1-1 on the next page and in Figure ESSD-1 and ESSD-2 (Appendix A).

Figure 1-1. Site Location



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Where information relates to both sites, they will be referred to collectively as 'the Site' hereafter. Where information relates to one or other of the sites, they will be individually named.

The approximate centre of the PCC Site is at national grid reference NZ 57000 25400. The address and postcode is Net Zero Teesside CCUS Project, Redcar, Cleveland, TS10 5QW.

In addition to the PCC site, a smaller discrete area known as Tod Point lies approximately 700m to the southeast of the main site. New substation infrastructure will be constructed in the Tod Point area, which is centred at NZ 57068, 23840 and covers approximately 3 ha.

Within the immediate setting of the overall proposed installation boundary is:

- To the northwest of the PCC Site, there is an area of the decommissioned former iron-making plant within the Redcar steelworks. The operational Redcar Bulk Terminal is beyond, on the south bank of the River Tees.
- To the south lies an area of the decommissioned Redcar steelworks part of which will be temporarily leased as a construction laydown area for the NZT Power Construction. Beyond is the Northumbrian Water Ltd (NWL) Bran Sands sewage treatment plant, operational land of PD Ports Teesport and the Wilton International industrial complex.
- West of the PCC Site, on the north bank of the River Tees, similar industrial complexes are present (at Seal Sands).
- The town of Dormanstown is located approximately 1.4 km southeast of the PCC Site and 0.625 km east of Tod Point, whilst Redcar is situated approximately 1.8 km to the east of the PCC Site and 2.2 km northeast of Tod Point.

- The PCC Site is located approximately 400 m to the south of the North Sea shoreline and Tod Point approximately 2km south at its closest point.

Trunk Road A1085 leads directly to the Site.

2.2.2 Site Classification

Environmental permit application EPR/ZP3827SK/A001 is being progressed for a DfR activity, under the Environmental Permitting Regulations (EPR) 2016, as amended.

The main activity classifications are detailed in table 1 below:

Table 1 Activity Classifications

Activity Reference	Description of Activities for Waste Operations	Limits of Activities
AR1	R5 activity for the recycling and reclamation of other inorganic compounds.	Use of waste types specified in Table S2.1 for the purposes of construction work and/or restoration, reclamation or improvement of land.
	R11 activity for the use of wastes obtained from any of the operations numbered R1 to R10	
AR2	R13 activity for the Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Secure storage of wastes listed in Table S2.1 for the purpose of recovery. Storage of wastes listed in Table S2.1 shall be limited to four years.
AR3	Waste Treatment	Limited to screening and crushing of site won material.

2.2.3 Application Boundaries and Site Security

The installation boundary is shown in Figure ESSD-1 and ESSD-2 (Appendix A). The area of the boundary is approximately 64.82 ha.

The PCC site will be secured via a perimeter fence, with access via Steel House Gate on Loverose Way, which will be manned 24 hours a day, 7 days a week. A full CCTV system will be present across the site which is monitored by security based in Steel House Gate.

2.3 Adjacent Former Waste Management Activity Boundaries

The Envirocheck report (218629437-1-1 which is presented in Appendix B), and Environment Agency Public Registers indicates the current and former waste management facilities within 2km of the site.

There is one historic landfill site located 100 m north of the Site boundary, the Warrenby Historical Landfill site and the waste deposited is recorded as inert and industrial waste. No other landfill sites are located within 250m of the Site.

No other historical waste management or other uses of the Site have been identified by the historical mapping available (Appendix C).

2.4 Site Context

2.4.1 Local Topography

The existing Site is dominated by large expanses of relatively flat artificial topography at between 6-8m above Ordinance Datum (AOD).

The STDC remediation project is excavating and placing recovered made ground and imported material to variable depths across the PCC site. In most areas of the site recovered made ground is present from 4.8mAOD to the platform level of 7.3mAOD. Recovered made ground has been placed to deeper depths in the centre of the site

and in areas of former structures, and recovered made ground has been placed to shallower depths in some defined areas

2.4.2 Environmental Receptors and Nature Protection Zones

Environmental site setting and environmental receptors are shown in Figure ESSD-3 (Appendix A). Environmental receptors are also shown in B – Envirocheck report

2.4.2.1 Designated Sites

Information regarding designated sites was obtained from the Multi-Agency Geographic Information for the Countryside (MAGIC) website (Appendix D). Information was obtained relating to:

- European Nature Conservation Sites;
- Special Protection Areas (SPAs);
- Special Areas of Conservation (SACs);
- RAMSAR sites; and
- Sites of Special Scientific Interest (SSSIs).

A search was completed for sites within at least 5km radius of the Site and the report is presented in Appendix B. In summary:

- Teesmouth and Cleveland Coast Site of Special Scientific Interest (SSSI) and Ramsar site (approximately 240 m north of the PCC Site and 1.22km northeast of Tod Point).
- South Gare and Coatham Sands SSSI (within 500m of the PCC site boundary).
- Seal Sands SSSI (approximately 2.9 km west of the PCC Site and 3.8 km northeast of Tod Point).
- Seaton Dunes and Common SSSI (2.9 km north west of the PCC site).
- Redcar Rocks SSSI (3 km east of the PCC site).
- Tees and Hartlepool Foreshore and Wetlands SSSI (4.1 km south west of the PCC site).

2.4.2.2 Other Sensitive Locations

There are no additional sensitive locations in or around the Site.

2.4.3 Residential Receptors

There are no residential receptors within 500 m of the PCC Site or 630m of Tod Point. Residential receptors within 2km of the site are shown in Figure ESSD-4 (Appendix A).

2.4.4 Recreational Areas

There are no recreational areas surrounding either the PCC Site or Tod Point.

2.4.5 Waterways

The River Tees flows approximately 1.6 km to the west of the Site and is tidal at that point, with the normal tidal limit approximately 14 km upstream (at the Tees Barrage). There are also a number of surface water features in the vicinity of the Site, including the Dabholm Gut which flows to the River Tees approximately 0.8 km south of the Site. The Dabholm Gut is tidal and accepts water from smaller streams, namely the Fleet (that runs from Coatham Marsh to the west of Redcar), the Mill Race (from east of the Wilton International complex); and Dabholm Beck (from the west of the Wilton International complex).

2.4.6 Water Bodies

There are no water bodies surrounding the Site.

2.4.7 Agricultural or Urban Sites

There are no agricultural areas within close proximity to the Site. The closest urban areas to the PCC Site are those at Marsh House Farm, in Warrenby 750 m to the east and on Broadway West in Dormanstown, approximately 1.5 km to the south-east. The closest to Tod Point are 630m to the west at Limerick Road, Dormanstown.

2.4.8 Industrial and Commercial Sites

Industrial and Commercial receptors in the vicinity of the Site include:

- To the northwest of the Site, there is large industrial plant and equipment from the former iron-making plant within the Redcar steelworks. The operational Redcar Bulk Terminal is beyond, on the south bank of the River Tees;
- To the south lies the Northumbrian Water Ltd (NWL) Bran Sands sewage treatment plant, operational land of PD Ports Teesport and the Wilton International industrial complex; and
- West of the Site, on the north bank of the River Tees, similar industrial complexes are present (at Seal Sands).

2.5 How Site Will Adapt to Address Climate Change

In terms of climate change the site will implement the following measures:

- Protecting natural resources by minimising the demand for virgin materials;
- Moving waste up the waste hierarchy and minimising the use of finite landfill capacity through DfR which puts suitable waste to use; and
- Providing for low carbon material selection by using waste as opposed to virgin materials and avoiding the need to dispose of waste materials. This aligns with the low carbon aim of the project.

The proposed scheme therefore provides a long term, environmentally sustainable solution with improved management techniques to ensure site compliance during the aftercare period.

3. CSM Source Characterisation

3.1 Source: Historical Land Use

3.1.1 Historical Use of the Land and Pollution History

The Site is located on land previously within the Redcar steelworks site and has been subject to extensive industrial development since before the date of earliest Ordnance Survey map (1854) with potential contaminative uses present to the current day. The land was specifically used for iron and steel manufacture, together with associated ancillary development. The former steelworks shut in October 2015.

Contaminative uses include iron and steel works, coking works, railways, tarmacadam / slag works, brine works, cement manufacture, anhydrite mining, landfill and chemical works with associated buildings, plants, production facilities, pavements, services and waste storage and transfer areas.

The BGS Durham and the Tees Valley Mineral Resources and Constraints Report indicated that “the Billingham Anhydrite was extensively mined on Teesside between 1927 and 1971 as a source of sulphur for the manufacture of the fertiliser ammonium sulphate and sulphuric acid. It was reported that “the Boulby Halite formed the basis of the Teesside chemical industry and was still being worked by brine pumping in 2000”. Mining ceased due to the decline in use of ammonia sulphate fertiliser and because the Anhydrite Process of sulphuric acid production became uncompetitive with methods using elemental sulphur.

It is noted that the Site falls outside of a Coal Authority Mining Reporting Area and CIRIA C758D indicates that it lies to the north of areas underlain by historic ironstone workings, these being located across the elevated topography of the North Yorkshire Moors.

There are no quarrying entries that occur within the installation site. One historical landfill site, Warrenby Historical Landfill, is located within 100 m of the Site boundary to the north, and is recorded to have received inert and industrial waste. The Envirocheck data (Appendix B) records British Steel Plc as license holders for the landfill. The first and last input dates are not supplied.

Review of historical mapping and aerial photography on Google Earth Pro indicates settling ponds were in use at the installation site from approximately the 1970’s to 2000. According to Department of Environment Industry profiles, fume cleaning may generate between 10 to 15 kg of dust or slurry for each tonne of manufactured steel. Generally, these are contaminated with lead, zinc and other metals making them unsuitable for recycling and since the 1970’s most steel industry slurry was lagooned on site or landfilled. Residues may be present at the location of the former settling ponds.

3.1.2 Incidents

The Environment Agency record and classify any reported pollution incidents as major or significant. Based on the results of the Environment Agency’s website search[2] no reported pollution incidents have occurred within the proposed installation boundary post the year 2000.

A number of historical incidents involving pollution of controlled waters was identified from the EA website and the Envirocheck report and is summarised in Table 2 below.

Table 2 Industrial Pollution

Incident Reference	Year	Distance from Site (m)	Type of Impact	Incident Severity	Cause of Incident /Pollutant
DD960003	1996	0	Pollution Incidents to Controlled Waters	Category 2 – Significant Incident	Not given. Chemicals- acid.
DD950376	1995	0	Pollution Incidents to Controlled Waters	Category 3 – Minor Incident	Not given. Chemicals- acid.
1167536	2013	98	Substantiated Pollution Incident Register	Air Impact: Category 4 No Impact. Water Impact: Category 4 No Impact.	Other Pollutant

[2] Environment Agency (2024) Environmental Pollution Incidents (Category 1 and 2). Accessed at: https://www.data.gov.uk/dataset/c8625e18-c329-4032-b4c7-444b33af6780/environmental-pollution-incidents-category-1-and-2 (Accessed 10/07/2024)

Incident Reference	Year	Distance from Site (m)	Type of Impact	Incident Severity	Cause of Incident /Pollutant
				Land Impact: Category 2 – Significant Incident.	
190113	2003	0	Substantiated Pollution Incident Register	Air Impact: Category 2 Water Impact: Category 4 Land Impact: Category 4	Crude Sewage
150993	2003	0	Substantiated Pollution Incident Register	Air Impact: Category Water Impact: Category Land Impact: Category	Crude Sewage
862806	2011	95	Substantiated Pollution Incident Register	Air Impact: Category 4 No Impact Water Impact: Category 2 Significant Incident Land Impact: Category 4 No Impact	Atmospheric Pollutants And Effects: Chemical Odour
773559	2010	110	Substantiated Pollution Incident Register	Air Impact: Category 4 No Impact Water Impact: Category 2 Significant Incident Land Impact: Category 4 No Impact	Atmospheric Pollutants And Effects: Chemical Odour
809530	2010	134	Substantiated Pollution Incident Register	Air Impact: Category 4 No Impact Water Impact: Category 2 Significant Incident Land Impact: Category 4 No Impact	Atmospheric Pollutants And Effects: Chemical Odour
846843	2011	134	Substantiated Pollution Incident Register	Air Impact: Category 4 No Impact Water Impact: Category 2 Significant Incident Land Impact: Category 4 No Impact	Atmospheric Pollutants And Effects: Chemical Odour
817046	2010	215	Substantiated Pollution Incident Register	Air Impact: Category 4 No Impact Water Impact: Category 2 Significant Incident Land Impact: Category 4 No Impact	Atmospheric Pollutants And Effects: Chemical Odour

3.2 Source: Proposed Deposit for Recovery Activity

The Operator intends to reuse excavated remediated material from construction earthworks to refill, level and raise the Site and reduce the volume of excavated material being taken off site for disposal. There is also the potential to reuse excavated material from pipeline and cable construction within the installation boundary to refill pipeline and cable excavations.

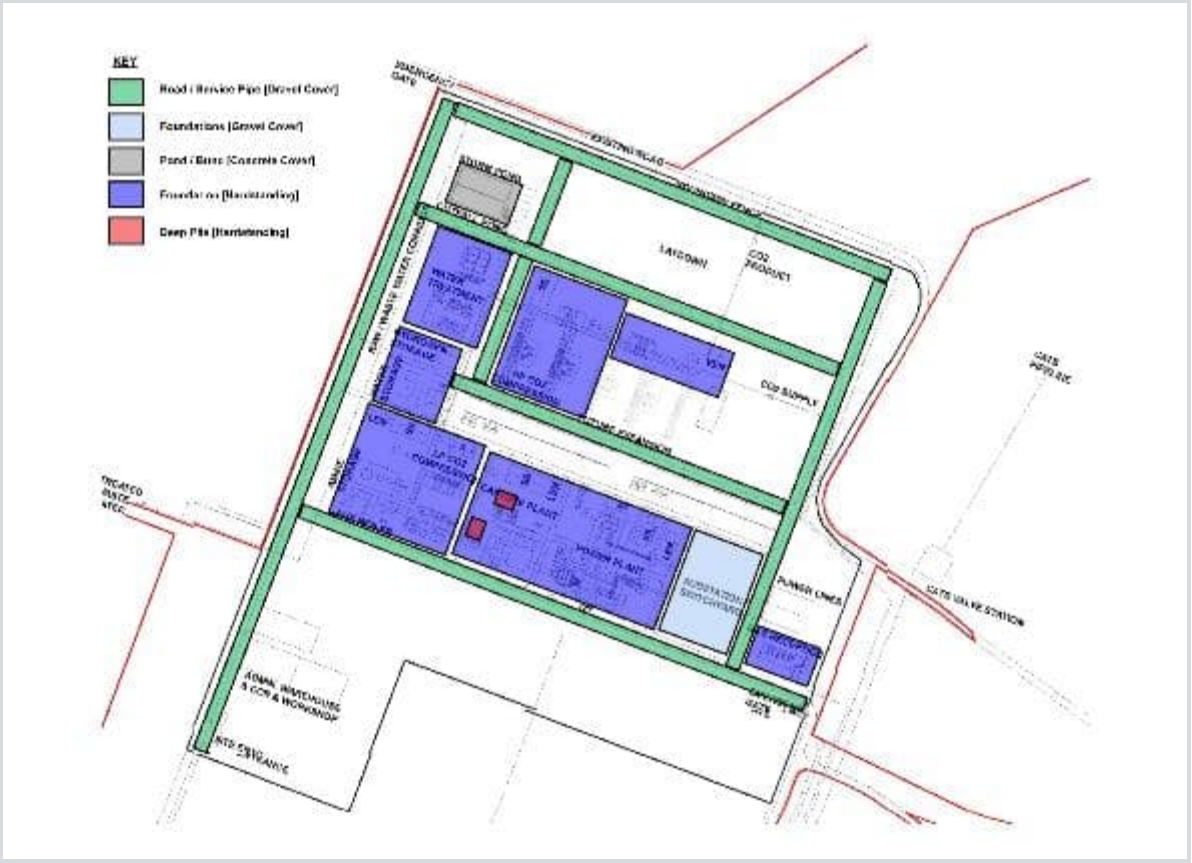
The proposed development is considered in detail in the Waste Recovery Plan (Document Reference: EPR-ZP3827SK-WRP-R04).

3.2.1 Proposed Works

Reuse material (material that was excavated and processed on Site) will be used widely across the Site. At Main Site (Figure 3-1), the reuse material will be used to:

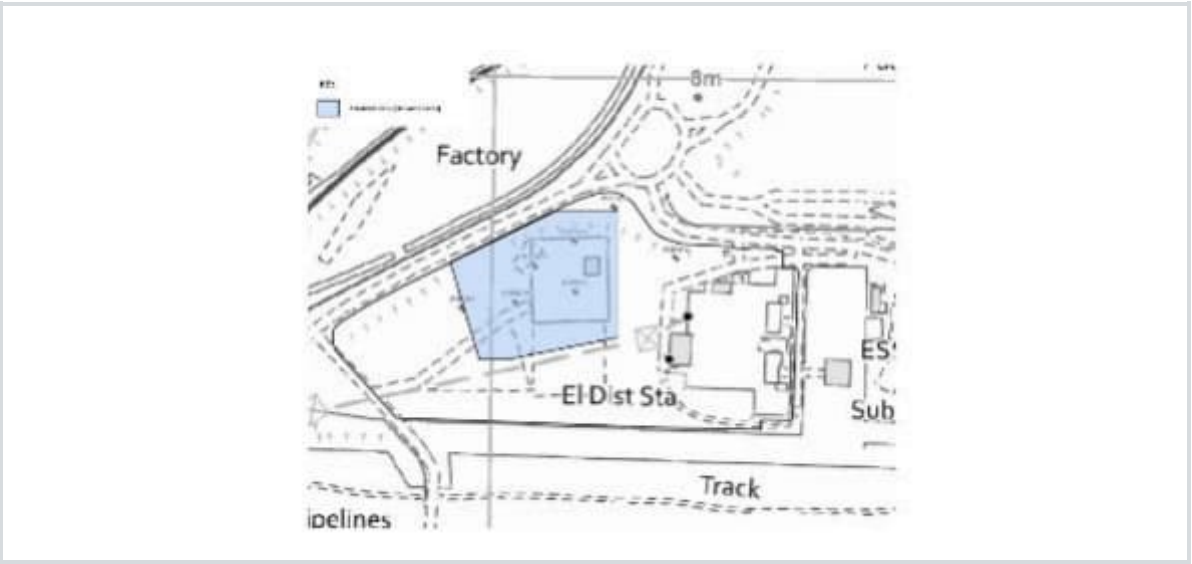
- Construct the outfall and retention pond bunds which will then be capped with a concrete surround;
- Partially backfill services trenches including cooling water, service cables and telecoms;
- Backfill around subsurface structures such as around foundations; and
- Backfill below building / structure foundations.

Figure 3-1. PCC Site Ground Cover



At Tod Point (Figure 3-2), the reuse material will be used to raise the land approximately 2-3m to the level of the adjacent substation to the east; foundations will be built within the land raise.

Figure 3-2. Tod Point Ground Cover



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Figures ESSD-5 and ESSD-6 (Appendix A) show indicative conceptual models through the Site providing an indication of the varying depth and extent of the reuse material placement.

Please note, reused material will not be used within deeper pit excavations (such as for absorbers and pumps), around deep structures, or below the water table. Clean imported fill will be used in these situations.

The ground cover at the PCC Site will be a combination of impermeable cover where buildings, infrastructure and associated hardstanding are present (anticipated up to 2.5m radius around infrastructure) and, to a lesser extent in areas where there is no infrastructure or little infrastructure, gravel ground cover will be present. Ground cover at Tod Point will predominantly be gravel.

3.2.2 Proposed Waste Types

Excavated materials from the remediated and un-remediated ground are expected to be subject to the DfR permit and will be classified in accordance with WM3 Guidance.

Any waste to be used will have a confirmed use on the Site, will be subject to the proposed testing to demonstrate it is suitable for such use, and will be used in quantities which are a direct replacement for non-waste materials only.

It is anticipated that the majority of the waste to be used will be generated on site and imported material would only be considered to address any deficit due to:

- Contamination being detected during testing of site generated material which makes it unsuitable for reuse;
- Specific geotechnical criteria can't be met;
- Risk assessment based on the Site conceptual model shows that site generated material is unsuitable for the intended use; or
- Volumes generated on site are less than that estimated.

The potential wastes to be used and their European Waste Catalogue codes are detailed in Table 3 below and are noted by the EA as being acceptable for:

- structural fill for building, stabilising slopes, drainage and road construction; and/or
- landscaping associated with construction work; and/or
- construction of screening bunds.

These waste types will not pose an unacceptable risk to the environment (including controlled waters) or human health.

Table 3 Waste Types to be used

Waste Code	Description	Comment
01	**WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS**	
01 01	**Wastes from Mineral Excavation**	
01 01 02	Wastes from non-metalliferous excavation	Imported only if needed from external sources. Restricted to waste overburden and inter-burden only.
01 04	**Wastes from Physical And Chemical Processing of Non-Metalliferous Minerals**	
01 04 08	Waste gravel and crushed rocks other than those containing dangerous substances	Imported only if needed from external sources.
01 04 09	Waste sand and clays	
10	**WASTES FROM THERMAL PROCESSES**	
10 02	**Wastes from the iron and steel industry**	
10 02 02	unprocessed slag	Un-remediated slag material from areas of deeper excavation.
17	**CONSTRUCTION AND DEMOLITION WASYES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**	
17 01	**Concrete, Bricks, Tiles and Ceramics**	
17 01 01	Concrete	Site won material associated with relic structures from deeper excavations. Imported only if needed
17 01 02	Bricks	
17 01 03	Tiles and Ceramics	

Waste Code	Description	Comment
17 01 07	Mixtures of Concrete, Bricks, Tiles and Ceramics	Site won material associated with relic structures from deeper excavations. Imported only if needed Metal from reinforced concrete must be removed.
17 05	**Soil Stones and Dredging Spoil**	
17 05 04	Soil and stones (topsoil, peat, subsoil and stones)	17 15 14 materials generated both onsite and imported from external sources only if needed. Material deposited in place of non-waste topsoil must meet the British Standard for Topsoil - BS3882:2015.
19	**WASTES FROM WASTE MANAGEMENT FACILITIES, OFFSITE WASTEWATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE**	
19 12	**Wastes from the Mechanical Treatment of Waste Not Otherwise Specified**	
19 12 09	Minerals (such as sand and stones) from the treatment of waste aggregates that are otherwise naturally occurring minerals (see specific guidance for further limitations)	"It does not include residual 'fines' from mechanical treatment of mixed waste at transfer stations. Source materials must be: (a) properly classified as hazardous or non-hazardous (b) accurately described (characterised)"
19 12 12	Other wastes (including mixtures of materials) from the mechanical treatment of wastes other than those mentioned in 19 12 11	Site-won materials processed by screening and/or crushing comprising bricks, tiles, concrete, ceramics, slag based materials or mixtures of materials.
19 13	**Wastes from soil and groundwater remediation**	
19 13 02	Solid wastes from soil remediation other than those containing dangerous substances	Site won material comprising recovered made ground materials placed during STDC remediation. Imported only if needed
20	**MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**	
20 02	**Garden and Park Wastes (Including Cemetery Waste)**	
20 02 02	Soil and stones (topsoil, peat, subsoil and stones)	Derived from external sources and imported only if needed.. Material deposited in place of non-waste topsoil must meet the British Standard for Topsoil - BS3882:2015.

3.2.3 Quantity of Material Required

It is anticipated the waste material will come from on site during the construction of the following activities/items:

- Piling drilling;
- Excavation for the pump sumps and buried vessels secondary containment pits;
- Excavation for the cooling water supply/return pipelines;
- Excavation for the outfall retention and overflow ponds;
- Excavation of foundations;
- Temporary Construction Facilities (TCF); and
- Pipeline and cable construction.

The materials from these activities are considered to originate from both remediated and un-remediated made ground.

The volume of waste being used will be a direct replacement of non-waste materials only – any surplus material generated on site will be removed via an appropriate waste management route.

In relation to the quantity of waste that would be required as a direct replacement for virgin fill materials, an initial survey of the Site was completed to determine:

- The volume of materials anticipated to be generated from site construction activities;

- The volume of site-won materials that can potentially be reused;
- The volume of external waste materials that may need to be imported; and
- The volume of surplus site-won materials that will need to be managed via an appropriate offsite waste management route.

The initial calculations identify the volume of materials being generated by the construction activities is around 334,606 m^3 as shown in Table 4 below.

Table 4. Maximum Anticipated Volume of Materials Generated During Construction

Excavation Into Remediated Made Ground (m^3)	Excavation Into Non-Remediated Made Ground (m3)	Excavation Into Natural Strata (m3)	Drill Cuttings from Piling (m3)
260,543	47,199	9,889	16,975

It is proposed that a portion of this material will be used as summarised in Table 5 below.

Table 5. Proposed Material Reuse

Proposed Used	Material Source	Volume (m^3)	Tonnage [(b)]
Structural Backfill - HV Switchyard and construction of earth bund/landscaping	Remediated Made Ground Materials	84,619	143,852
Other structural backfill, sand for underground pipes, filling and embankment of tank(s)	Suitable Site Won Materials(a)	11,849	20,143
Soil substitution/structural fill	Suitable Site Won Materials(a)	81,696	138,883
Road construction	Suitable Site Won Materials(a)	13,951	23,717
Total reuse of remediated made ground materials		84,619	**84,619**
Total reuse of other suitable site won materials[(a)]		107,469	**107,496**
Maximum amount of material reused		192,115	**192,115**

(a) Site aims to use as much site won materials as possible with the deficit of waste material imported to site as needed from suitable external sources.

(b) Tonnage has been determined from the volume based on a density of 1.7 kg/m^3.

Calculations within the Waste Recovery Plan show that:

- The overall material to be reused is around 192,115 m^3 or around 326,596 tonnes for all construction activities as shown in Table 5 above.
- There is an anticipated surplus of site-won material which will need to be sent offsite through an appropriate waste management route. However, as site-won material has to be evaluated and is subject to risk assessment against the site conceptual model to ensure it is suitable for reuse the volume of surplus may increase or decrease. The current anticipated volume of surplus is around 142,500 m^3.

3.2.4 Final Landform and After Use

The final landform will provide a flat hardstanding base for the construction of the NZT installation, consisting of an integrated power generation and carbon capture train involving the following activities:

- Establishment of construction laydown areas (e.g. site offices, storage areas, security fencing and gates);
- Earthworks to prepare the Site;
- Construction of foundations, which is likely to require the piling of key structures;
- Erection of buildings and structures and installation of plant and equipment;
- Installation of utilities and utility connections (electricity, natural gas and water);

- Construction of the CO_2 Gathering Network and CO_2 Export Pipeline; and
- Commissioning (testing) of the plant prior to operation.

3.2.5 Hydrogeological Risk Screening

A hydrogeological risk assessment is required to demonstrate that the proposed development will be compliant with the Environmental Permitting Regulations 2010 (as amended) and is included at Application Part 8 (Document Ref EPR-ZP3827SK-HRA-R02). These Regulations require that certain substances (hazardous substances) are not discharged to groundwater such that they are discernible, and that the discharge of other substances (non-hazardous pollutants) is limited so as to prevent pollution.

4. Pathway and Receptor

4.1 Pathway: Geology

4.1.1 Regional Geology

Regional geology is summarised from British Geology Survey online mapping[3] and from BGS mapping Sheet 34 Guisborough (1:50,000 solid and drift)[4].

The published information shows the entire Site to be located on Made Ground. Tidal Flat Deposits, consisting '*of unconsolidated sediment, mainly mud and/or sand*' are the predominant superficial deposits underlying the Main Site with Blown Sand mapped within the east of the Main Site (see Figure 7). Blown Sand, '*sand that has been transported by wind, or sand consisting predominantly of wind-borne particles*' is the predominant superficial deposit underlying Tod Point with Tidal Flat Deposits in the west/north-west (see Figure 5). According to BGS mapping, Glaciolacustrine Deposits are mapped approximately 0.1km from the south-eastern boundary of Tod Point.

The majority of the Site is underlain by bedrock of the Redcar Mudstone Formation (see Figure 6) described by the BGS as '*Grey, fossiliferous, fissile mudstones and siltstones with subordinate thin beds of shelly limestone in lower part, and fine-grained carbonate-cemented sandstone in upper part; argillaceous limestone concretions occur throughout'.* The Redcar Mudstone Formation is regionally up to approximately 283m in thickness however, less than 100m thickness within the Redcar area[4], and rests with a sharp irregular contact on the underlying Penarth Group.

The Penarth Group (no named formation) outcrops in the north-west of the Main Site as a narrow band c.130m trending northeast-southwest. The Penarth Group is described by the BGS as '*Grey to black mudstones with subordinate limestones and sandstones; predominantly marine in origin*'. The Penarth Group is up to 12m in thickness and overlies, usually with an erosional contact, the Mercia Mudstone Group.

The Mercia Mudstone Group (no named formation) is mapped to the north-west of the Penarth Group and is described by the BGS as '*Dominantly red, less commonly green-grey, mudstones and subordinate siltstones with thick halite-bearing units in some basinal areas. Thin beds of gypsum / anhydrite are widespread; thin sandstones are also present.*' The thickness of the Mercia Mudstone Group varies considerably.

No mapped faults are present within 1km of the Site

4.1.2 Local Geology

A summary of the site-specific geology is provided below based on the following Ground Investigations undertaken by AECOM:

- 2021 GI as part of the Preliminary Ground Investigation Report[5];
- 2022 GI as reported in the NZT GI Factual Report[6], and
- GI undertaken by AECOM between 22nd October and 7th November 2024[7].

The strata encountered at Main Site are presented in **Error! Reference source not found.** and strata encountered at Tod Point are presented in **Error! Reference source not found.**, and are discussed further in the following paragraphs. Figures F001 to F005 show cross sections of the Main Site.

[3] British Geological Survey. 2024. Geoindex (online) available at: https://mapapps2.bgs.ac.uk/geoindex/home.html [accessed September 2024]
[4] British Geological Survey. 1998. Guisborough. England and Wales Sheet 34. Solid and Drift Edition. 1:50,000 Provisional Series. (online) available at: https://largeimages.bgs.ac.uk/iip/mapsportal.html?id=1001514 [accessed September 2024]
[5] Allied Exploration & Geotechnics. 2021. Preliminary Onshore Ground Investigation for Net Zero Teesside (NZT) – South Tees Development Corporation (STDC) 'Main Site' and Onshore CO2 Export Pipeline Corridor
[6] AECOM. 2022. Net Zero Teesside Onshore Ground Investigation - Front End Engineering Design (FEED), Ground Investigation Factual Report. (Document number: NS051-CV-REP-0A1-00012).
[7] AECOM. 2024. Net Zero Teesside Groundwater Monitoring Well Installation PCC (Post Remediation) and Tod Point – Factual Report.

4.1.2.1 Made Ground

Made Ground is encountered across the entire Site. The data recorded in Table 6 and Table 7 is based on GI undertaken prior to the remediation of the Site. The remediated Site level is at approximately 7.3 meters above ordnance datum (m AOD).

The Made Ground, prior to remediation, is described as[6] 'dark brown-grey gravelly silty sand with some cobbles or sandy angular to subrounded gravel. The gravel and cobbles were typically composed of ferrous slag and other materials such as brick, chert, and concrete. The slag is mixed with various other anthropogenic and natural constituents including, but not limited to metal, plastic, brick, refractory brick, clinker, ash, limestone, and sandstone'. Visual records from site work also noted the existence of larger slag boulders present across the site that could be encountered within the ground. Also encountered was a deposit of silver-coloured slag with high iron content composed of fine crystalline metallic minerals, likely to be a deposit of solidified molten iron. Visual and olfactory evidence of hydrocarbon contamination was also observed in Made Ground[6].

The remediated Made Ground (material proposed for reuse) is described as granulated fill[8]. The remediation and processing of the Made Ground included the crushing of oversize materials, removal of fines and contaminants and was tested throughout the remediation process to assess compliance with the LEP.

4.1.2.2 Superficial Deposits

Four distinct superficial deposits were encountered below the Site: Tidal Flat Deposits – sand, Tidal Flat Deposits – clay (upper), Tidal Flat Deposits – clay (lower) and Glacial Till. Although Blown Sand was identified within the Site boundary at Main Site and Tod Point on published BGS mapping, it wasn't specifically identified beneath the Site[6]. This is possibly due to the difficulty in differentiating it from the granular material of the Tidal Flat Deposits-sands. A summary of the geology encountered at Main Site and Tod Point can be found in Table 6 and Table 7 respectively.

Tidal Flat Deposits – sand, were encountered beneath Main Site and were laterally continuous across the Site and predominantly comprised layers of medium dense yellow fine to coarse sand with occasional fragments of white bivalve shell. This deposit was typically located in areas of localised depression and was observed to contain organic material as well as visual and olfactory evidence of hydrocarbon contamination. Two clay horizons were encountered in the Tidal Flat Deposits, a thinner upper layer approximately 1.2m in thickness and a lower layer approximately 2.36m in thickness. The upper layer has a limited lateral extent. The upper clay deposit is described as 'typically described as very soft to soft, rarely firm, dark grey sandy silty clay with the slight organic content and odour and occasional shell fragments. The sand within this deposit is typically fine to medium. The lower clay has a larger lateral extent. They are described similar to the upper clays however often with an abundance of organic material and occasional calcareous materials and shells.

At Tod Point the Tidal Flat Deposits – sand deposit was absent in BH207 in the western area and CR-BH135 in the eastern area of Tod Point. However, relatively thin horizons (between 0.71m to 1.02m in total thickness) of Tidal Flat Deposits comprising organic sand, silty sand and slightly gravelly silty sand were identified at locations M-BH208 and M-BH212 in the northern and eastern area. Locations CR-BH135 and M-BH212 are located in close proximity, which highlights the discontinuous nature of the Tidal Flat Deposits – Sand at Tod Point. The Tidal Flat Deposits at Tod Point were generally encountered as silty, occasionally sandy, clays. The locations in the northern and eastern area identified a significant organic content within the deposits, and locations M-BH208 and M-BH212 include a thin horizon of clayey pseudo-fibrous peat of between 0.3m to 0.32m in thickness.

Glacial Till was encountered across the whole Site, with the exception of M-BH207 in the western area of Tod point), and was distinguishable from the Tidal Flat Deposits – clay (lower) due to its firmer and stiffer nature as described in **Error! Reference source not found.**. The Glacial Till overlies the bedrock across the Site. Glaciolacustrine Deposits were not identified or distinguished during the AECOM 2022 GI.

4.1.2.3 Bedrock

Depth to bedrock varies between 15.75 and 22.02 m below ground level at the time of GI (approximately -10m AOD to -14m AOD) and consists of the Redcar Mudstone Formation and Mercia Mudstone Group, with the depth generally increasing towards the north. Although the Penarth Group was mapped within the Site Boundary, it was not encountered in the boreholes drilled as part of the AECOM 2021 or 2022 GI.

Bedrock at Tod Point was identified as the Redcar Mudstone Formation at a level of -2.43m AOD at locations M-BH207 in the west and CR-BH135 in the east.

Redcar Mudstone Formation is the dominant bedrock underlying the Site and is described as extremely weak to weak grey mudstone (Table 6). In the north of the Main Site, the Mercia Mudstone Group was encountered and

[8] Arcadis. November 2024. Remediation Verification Report.

described as weak to medium strong, locally weak, horizontal thinly laminated red mudstone with occasional pale grey bands.

Table 6. Generalised Strata Succession for Main Site

Strata	Depth (m bgl)		Level (m AOD)		Thickness			Typical Strata Description
	From	To	From	To	Min.	Max.	Mean.	
Made Ground	0.00	7.75	+9.20	+4.43	0.50	7.75	4.3	Comprised dark brown-grey gravelly silty sand with some cobbles or sandy angular to subrounded gravel. The gravel and cobbles were typically composed of ferrous slag and other materials such as brick, chert, and concrete. The slag is mixed with various other anthropogenic and natural constituents including, but not limited to metal, plastic, brick, refractory brick, clinker, ash, limestone, and sandstone.
Tidal Flat Deposits- Sand	1.80	7.75	+5.46	-0.19	4.25	11.59	7.73	Layers of medium dense yellow fine to coarse sand occasional fragments of white bivalve shell. The deposits are also commonly observed as being slightly gravelly with organic content.
Tidal Flat Deposits- Clay (Upper)	4.50	10.92	+1.89	-3.45	0.15	3.20	1.18	Very soft to soft, rarely firm, dark grey sandy silty clay with the slight organic content and odour and occasional shell fragments. The sand within this deposit is typically fine to medium.
Tidal Flat Deposits- Clay (Lower)	9.00	18.10	-1.69	-9.39	0.16	5.95	2.36	Very soft to soft, dark brown slightly gravelly sandy clay, often with an abundance of organic material and occasional calcareous materials and shells.
Glacial Till Deposits	11.06	20.00	-5.25	-10.92	2.43	9.16	5.60	Firm to stiff reddish brown mottled dark grey slightly gravelly sandy silty clay. The gravel is often fine to coarse mudstone, sandstone, and limestone. The sand is fine to coarse.
Redcar Mudstone Formation	15.75	26.22	-10.10	-20.08	Not proved			Extremely weak to weak fractured thinly laminated dark grey mudstone with laminations and fracture sets undulating rough, partly open, clean, or infilled with grey clay. The weathered clay layers are typically stiff dark bluish grey gravelly clay with the gravel being fine to coarse very weak mudstone.
Mercia Mudstone Group	22.02	36.3	-14.14	-28.77	Not proved			Weak to medium strong locally weak horizontal thin laminated red mudstone with occasional pale grey bands.

Source: AECOM. 2022. Net Zero Teesside Onshore Ground Investigation - Front End Engineering Design (FEED), Ground Investigation Factual Report. (Document number: NS051-CV-REP-0A1-00012)
bgl: below ground level

Table 7. Generalised Strata Succession for Tod Point

Strata	Depth to Top of Stratum (m bgl)	Elevation to Top of Stratum (m AOD)	Thickness (m)	Description
Made Ground	0.00	+9.50	7.20	Comprised of light to dark grey sand with coarse gravel of slag, red brick, concrete, little cobble content,
Tidal Flat Deposits – Sand	7.41	+2.95	0.87	Brownish yellow medium sand with occasional shell fragments. Becomes slightly gravelly with depth, gravel is subrounded coarse of chert and siltstone. Laterally discontinuous across the Tod Point site.
Tidal Flat Deposits – Clay (Lower)	7.70	+1.97	2.89	Soft dark grey slightly to very organic clay. Occasional 2-5mm thick organic pockets present within the clay. Interbedded with black fine to coarse organic sand and spongy dark clayey pseudo-fibrous peat.
Glacial Till Deposits	10.62	+0.42	2.43	Firm brown slightly sandy gravelly clay with occasional pockets of yellow silt and carbonaceous material. Gravel comprises chert, mudstone, chalk, sandstone and siltstone.
Redcar Mudstone Formation	11.22	-2.43	Not proved	Very weak thinly laminated dark grey mudstone.

Source: AECOM. 2022. Net Zero Teesside Onshore Ground Investigation - Front End Engineering Design (FEED), Ground Investigation Factual Report. (Document number: NS051-CV-REP-0A1-00012) and AECOM. 2024. Net Zero Teesside Groundwater Monitoring Well Installation PCC (Post Remediation) and Tod Point – Factual Report

4.1.3 Ground Investigations

Ground investigations have been undertaken between 2018 and 2023 and have informed the local geology at the Site and within the immediate vicinity from a number of exploratory boreholes. Local geology at the Site is considered in more detail in the Hydrogeological Risk Assessment (EPR-ZP3827SK-HRA-R01) included in Application Part 8.

4.2 Pathway: Hydrogeology

4.2.1 Aquifer Characteristics

The EA Groundwater Protection Policy adopts aquifer designations consistent with the Water Framework Directive.

According to this system and Defra's interactive MAGiC online map (Appendix D), the bedrock aquifer designations present at the site:

- Redcar Mudstone Formation and the Penarth Group are classified as a Secondary (Undifferentiated) Aquifers;
- Mercia Mudstone Group is mudstone classified as a Secondary B Aquifer;
- Sherwood Sandstone Group is classified as a Principal Aquifer, described as "*layers of sedimentary rock deposit that have high intergranular and / or fracture permeability; meaning they usually provide a high level of water storage. They may support water supply and / or river base flow on a strategic scale. In most cases, principal aquifers are aquifers previously designated as major aquifers*".

The superficial aquifer designations at the Site are:

- Blown Sand and Tidal Flat Deposits (sand and silt) strata underlying and within close vicinity to the Site are classified as Secondary A Aquifers Approximately 0.95km to the west of the Site and 1.5km to the east, the Tidal Flat Deposits and the Blown Sands are designated as Secondary Undifferentiated Aquifers; and
- Glacio-lacustrine deposits and Glacial Till (Diamicton) are classified as Unproductive.

Made Ground is not designated as an aquifer.

Environment Agency (EA) Groundwater Maps replicated in the Envirocheck reports (Appendix B) show that the proposed installation site falls outside any Groundwater Source Protection Zones. The closest SPZ (SPZ3) is over 9km to the north-west of the Site.

The Site is also not located in a Nitrate Vulnerability Zone (NVZ), a drinking water protection zone; nor a groundwater or surface water safeguard zone.

No licensed groundwater abstractions or private water supplies were identified within 2km of the Site.

4.2.2 Site-specific Hydrogeology

4.2.2.1 Hydraulic properties

In-situ permeability tests, slug tests and variable head tests, were carried out as part of the AECOM 2021 GI, the results have been summarised from Preliminary Onshore Ground Investigation for NZT[9] and presented in Table 8 and are consistent with the literature values for the individual units. Note, two variable head test were undertaken in the Made Ground, however, the results were reported to be unreliable due to instrument error and have not been included in the table below.

Table 8. Hydraulic Conductivity from 2021 GI

Geology	Slug Test (m/sec)			Variable Head Test (m/sec)		
	Number of tests	Minimum	Maximum	Number of tests	Minimum	Maximum
Tidal Flat Deposits – Sand	8	$9.75x10^{-04}$	$4.09x10^{-03}$	0	n/a	n/a
Redcar Mudstone Formation	4	$1.97x10^{-06}$	$6.17x10^{-05}$	1	$1.58x10^{-07}$	$1.72x10^{-07}$

[9] AECOM. 2022. Preliminary Onshore Ground Investigation for Net Zero Teesside. Factual Report

4.2.2.2 Groundwater Elevations and Flows

Long term monitoring of groundwater elevations has been undertaken by AECOM at Main Site and Tod Point. Groundwater elevations in the Made Ground, Tidal Flat Deposits, Glacial Till and mudstone bedrock have been monitored at Main Site since July 2021 and in the Made Ground and Redcar Mudstone at Tod Point since September 2022. Monitoring data are presented in Table 9 below and shown graphically in Appendix E along with a contour plot for the Main Site area.

Groundwater levels in the Made Ground and Tidal Flat Deposits typically show an upward trend (rising groundwater levels) since monitoring began in 2021 (Appendix E) and this trend is evident before remediation commenced in May 2023. The response to precipitation and groundwater level fluctuations are mirrored in the Made Ground and Tidal Flat Deposits indicating they are in hydraulic continuity and unconfined. Groundwater flow within these two strata at the Main Site is to the north-east toward the North Sea via intergranular flow. Groundwater movement is likely to be influenced by the presence of the upper and lower clay bands within the Tidal Flat Deposits.

The Glacial Till has only been monitored underlying the Main Site and not at Tod Point. Groundwater elevations in the Glacial Till, like in the Made Ground and Tidal Flat Deposits, also show a rising trend since 2022. The groundwater elevations are steady and show little fluctuation. Groundwater flow will be restricted within the low permeability stiff clay however, groundwater movement can occur in local higher permeability lenses such as sands and gravels within the glacial deposit. Groundwater elevations within the two boreholes monitored indicate groundwater flow to the north-east toward the North Sea.

Groundwater elevations have been monitored in both the Redcar Mudstone Formation and the Merica Mudstone Group, see Table 9 and Appendix E. Groundwater elevations within the Mercia Mudstone Group appear to be more stable than those in the Redcar Mudstone Formation. Unlike the other aquifers, a rising groundwater trend is not observed in the data indicating that the Redcar Mudstone Formation is not in hydraulic continuity and is separated from the overlying aquifers by the Glacial Till. The groundwater elevations indicate that the Redcar Mudstone Formation aquifer is confined.

Groundwater level fluctuations due to tidal influences were not observed in the groundwater level data, see Appendix E.

Table 9. Groundwater Elevation

Strata	Monitoring period (mm/yyyy)	Number of boreholes	Monitoring approach	Minimum (m AOD)	Average (m AOD)	Maximum (m AOD)	Range (m)
Main Site							
Made Ground	04/2022 to 01/2024	6*	Continuous and MMD	2.68	4.34	6.32	3.46
Tidal Flat Deposits	07/2021 to 07/2024	13	Continuous and MMD	1.07	3.36	4.61	3.54
Glacial Till	04/2022 to 07/2024	2	Continuous and MMD	2.49	2.86	3.39	0.89
Redcar Mudstone Formation	09/2022 to 07/2024	6	Continuous and MMD	1.02	3.54	7.37	6.35
Mercia Mudstone Group	09/2022 to 07/2024	2	Continuous and MMD	1	1.91	2.70	1.70
Tod Point							
Made Ground	09/2022 to 11/2024	3	MMD	dry**	dry**	dry**	n/a
Tidal Flat Deposits	11/2024	3	MMD	3.04	3.32	3.48	0.44

Strata	Monitoring period (mm/yyyy)	Number of boreholes	Monitoring approach	Minimum (m AOD)	Average (m AOD)	Maximum (m AOD)	Range (m)
Redcar Mudstone Formation	09/2022 to 07/2024	1	MMD	-4.58***	2.24	3.1	7.68

Notes: MMD = monthly manual dips
* Although six boreholes were monitored, there is only continuous logger data for one borehole, see Appendix E. The data presented in the table accounts for groundwater levels from all six boreholes.
** Borehole CR-BH135 has been dry on 13 out of 15 monitoring rounds. On the other two occasions groundwater was recorded 1cm and 3cm above the base of the borehole and unlikely to be a true representative of the groundwater level in the Made Ground. Boreholes M-BH207 and M-BH208 were dry on the monitoring round undertaken in November 2024.
*** Potentially anomalous result.

4.2.2.3 Groundwater Quality

Groundwater quality monitoring has been undertaken in the Made Ground, Tidal Flat Deposits and mudstone bedrock by Arcadis since 2018 and by AECOM since 2022. Tables presenting laboratory results for groundwater quality monitoring up until November 2024 undertaken by AECOM are presented in Appendix F, along with data provided by Arcadis.

The Contaminants of Concern (CoC) identified in the long-term groundwater monitoring data across the NZT site are as follows:

- Metals: Aluminium, Arsenic, Cadmium, Chromium (total), Chromium (hexavalent), Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Vanadium and Zinc.
- Inorganics: Cyanide (free), Cyanide (total), Complex cyanide, Thiocyanate, Nitrite as NO_2, Nitrite as N, Nitrate as NO_3^-, Sulphate as SO_4, Ammoniacal Nitrogen as NH_3, Ammoniacal Nitrogen as N, Fluoride, Chloride; Fluoride, inorganic nitrogen, Ortho phosphate.
- Polycyclic Aromatic Hydrocarbons: Acenaphthene, Acenaphthylene, Anthracene, Chrysene, Fluorene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Benzo (k) fluoranthene, Benzo(b)&(k)fluoranthene, Dibenz(a,h)anthracene, Fluoranthene, Indeno(1,2,3-c,d)pyrene, Naphthalene, Phenanthrene, Pyrene.
- Aliphatics & Aromatics >C5-C44.
- Phenols: 3/4-Methylphenol (m/p-Cresol), 2,4-dimethylphenol, 4-methylphenol.

Please note Benzene, Toluene, Ethylbenzene and Xylene Total (BTEX) concentrations were below the limit of detection and not identified as a CoC.

Salinity data indicates that the groundwater in the Made Ground and superficial deposits is within the brackish range. Groundwater within the mudstone bedrock is largely brackish approaching saline particularly in MS/BH13D.

It is noted that the monitoring data encompasses wells both within and up-hydraulic gradient of the proposed recovery area and that the concentrations of the above CoC have varied between wells and within wells over time, without notable evidence of increasing concentrations following remediation starting in May 2023. As such the above CoC are considered to reflect long-term background conditions across the site area and the former industrial land use and development of the area.

4.2.3 Groundwater Abstractions

No licensed groundwater abstractions or private water supplies were identified within 2km of the Site within the Environmental Statement[10]. Due to the location of the Site (close to the sea) and the nature of the bedrock, it is unlikely groundwater abstractions will be present. No Source Protection Zones (SPZ) are present within the vicinity of the Site, the closest SPZ is located over 8km north-west in Hartlepool

[10] AECOM prepared for Net Zero Teesside Power Ltd. and Net Zero North Sea Storage Ltd. 2022. DCO Environmental Statement: Volume 1. Chapter 9 Surface Water, Flood Risk and Water Resources. Document Reference: 6.2.

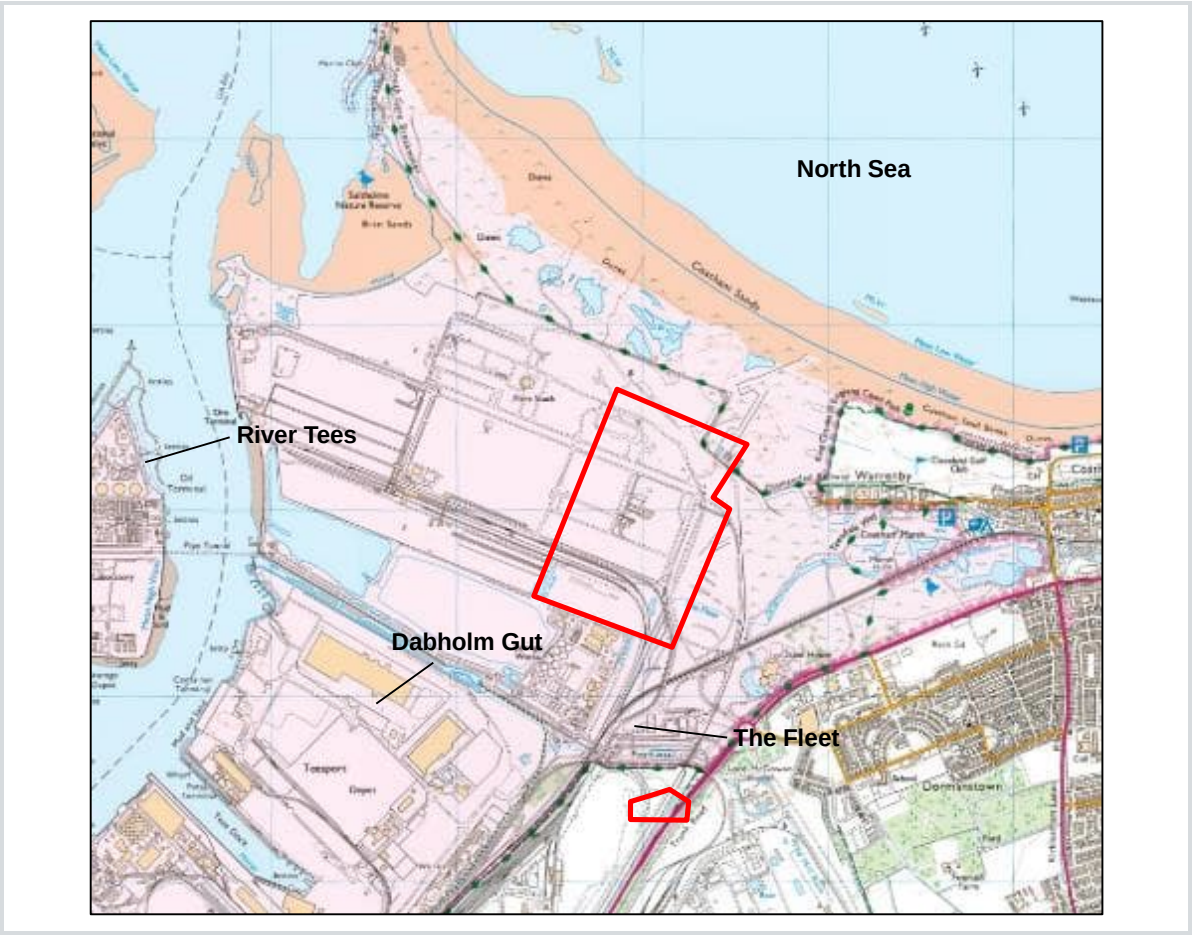
4.3 Pathways: Hydrology

4.3.1 Water Courses

The North Sea, at high tide, is located approximately 0.45km to the north of the northern boundary of the Main Site and at low tide, approximately 0.7km north[11].

The River Tees, classified as a Main River by the EA, flows to the north-east / north to enter the North Sea at Tees Mouth Estuary approximately 1.6 km west of the Site (see Figure 4-1).

Figure 4-1. Hydrology



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Several watercourses are present within the vicinity of the Site. The Fleet is a watercourse which flows south-westerly from Coatham Marsh Nature Reserve, between the Main Site and Tod Point, to discharge to Dabholm Gut. It is culverted as it flows south-westerly past Tod Point and located approximately 60m west of this part of the Site. Dabholm Gut is an artificial drainage channel located approximately 0.8km west of Tod Point and discharges westwards to the River Tees. Two other watercourses discharge to Dabholm Gut, The Mill Race and Dabholm Beck, located approximately 270m to the south-east and 320m to the south-west of Tod Point respectively. No surface water abstractions were identified from these water courses downstream of the Site[16].

There are a number of mapped ponds and watercourses in the vicinity of the Site[11]. To the north of Main Site, north of S Gare Road, are several large ponds located in the sand dunes/ reclaimed land. Smaller ponds are mapped approximately 0.07km to the south-east of Main Site, 0.38km north-west and 1km north-west. The site walkover reported in Environmental Statement noted that the ponds within Coatham Dunes appeared to be predominantly rainwater fed, with little influence from tidal variation or groundwater and had mostly become fully vegetated wetlands[10]. Approximately 0.07km south of Tod Point, and 0.4km north-east are two further ponds.

[11] Ordnance Survey mapping (online). Available at: https://www.bing.com/maps/?cp=54.62754%7E-1.120595&lvl=15.7&style=h [accessed September 2024]

4.3.2 Flood Risk

The EA 'Flood map for planning' indicates that the whole of the Site is located within Flood Zone 1 that is defined as, "land having a less than 1 in 1,000 (less than 0.1%) annual probability of river or sea flooding."

4.3.3 Water Quality and Existing Contamination

The closest watercourse, which is monitored by the Environment Agency, is the River Tees water body located 1.6 km to the west of the installation boundary.

According to DEFRA's Catchment Data Explorer[12], the Tees water body, has been classified as having Moderate ecological status and a Fail for the chemical quality.

The Fleet is a Water Framework Directive (WFD) designated surface water body and is currently failing to meet Good Chemical Status[13]

4.3.4 Surface Water Discharge Licences

The Northumbrian Water Bran Sands sewage treatment plant (to the south of the Site) discharges into the Dabholm Gut, as does effluent from the Wilton complex.

4.4 Pathway: Man-made Subsurface Pathways

The BGS Durham and the Tees Valley Mineral Resources and Constraints Report indicated that "the Billingham Anhydrite was extensively mined on Teesside between 1927 and 1971 as a source of sulphur for the manufacture of the fertiliser ammonium sulphate and sulphuric acid. It was reported that "the Boulby Halite formed the basis of the Teesside chemical industry and was still being worked by brine pumping in 2000".

4.5 Receptors and Compliance

4.5.1 Hydrogeological Risk Assessment

As mentioned above, a HRA (EPR-ZP3827SK-HRA-R02) has been prepared to assess the risks to groundwater quality associated with the use of waste under the waste recovery permit at the Site.

4.5.1.1 Groundwater

Groundwater within the underlying superficial deposits beneath the site (primarily granular Tidal Flat Deposits) is considered a potential receptor as while no reuse material will be placed directly into the Secondary A Aquifer, Made Ground and Tidal Flat Deposits are in hydraulic continuity, and therefore, a potential pathway for contamination leached from Made Ground into the underlying aquifer may be present.

Groundwater within bedrock aquifers beneath the Site are not considered a potential receptor as reuse material will not be placed within the bedrock aquifer and the bedrock aquifer is confined and hydraulically isolated from the overlying Secondary A Aquifer by the presence of Glacial Till or cohesive Tidal Flat Deposits, therefore, there is no pathway.

4.5.1.2 Surface Water

The surface water resource receptors are considered to be surface water associated with:

- the North Sea, located approximately 450m to the north of the Site. It is noted that the North Sea also has ecologically protected status, and is therefore also considered a receptor in relation to ecological receptors.
- The Fleet, surface water located approximately 0.17km down-hydraulic gradient (west) of the Tod Point land raise boundary. This water course is culverted as it flows past the Tod Point area of the site. It is assumed that groundwater within the Tidal Flat Deposits will flow westwards based on groundwater levels, topography and elevation of The Fleet in the vicinity of the site and that the construction of the culvert and adjoining channelled sections of the Fleet will permit inflow of groundwater to the surface water course where surface water levels are below those in groundwater.

The River Tees is not hydraulically downgradient and is therefore not considered as a receptor.

[12] DEFRA (2023) Catchment Data Explorer. TEES Waster Body. Accessed at: https://environment.data.gov.uk/catchment-planning/WaterBody/GB510302509900 (Accessed 10/07/2024)
[13] Environment Agency Catchment Explorer. Available at Tees Estuary (S Bank) | Catchment Data Explorer | Catchment Data Explorer [accessed December 2024].

Ponds have historically been present to the north and northwest of the Site, within land which has ecologically protected status. The ponds have diminished since cessation of operations at the Redcar Blast Furnace, such that only a single pond is currently present. The single pond is situated with an area of slag containing materials and not within natural materials. This pond, which is located approximately 20m to the north of the Site is considered unlikely to be in hydraulic continuity with groundwater, and as such, is not considered a potential receptor in relation to the Site. Further, that for a potential risk to the be recognised in relation to the ecologically protected land immediately adjacent to the northern Site boundary, impacted groundwater would need to be present at surface.

4.5.1.3 Assessment

It is recognised that the HRA must assess compliance with the requirements of the Environmental Permitting (England and Wales) Regulations, 2016 (as amended). The potential risks associated with the site are presented in Section 5of the HRA with the details of the assessments completed presented in Sections 6 and 7.

4.5.2 Amenity

A summary of the potential environmental and human receptors that are located within the vicinity of the Site are presented within Table 10 and Table 11 and Figures ESSD-3 and ESSD-4 (Appendix A). Identification of the potential hazards and risks to these receptors is provided within the accompanying risk assessments.

Table 10. Receptors within 500m

Receptor Name	Receptor Type	Approximate Distance from EP boundary (at nearest point)
Teesmouth and Cleveland Coast Site of Special Scientific Interest (SSSI)	Ecological	within 500m of the Main Site boundary
Teesmouth and Cleveland Coast Ramsar site	Ecological	within 500m of the Main Site boundary
South Gare and Coatham Sands SSSI	Ecological	within 500m of the Main Site boundary
Decommissioned former iron-making plant within the Redcar steelworks	Industrial	0
Decommissioned Redcar steelworks	Industrial	0
Bran Sands sewage treatment plant	Industrial	within 500m of the boundary

Table 11. Surrounding Land Uses within 5km

Receptor Name	Receptor Type	Approximate Distance from EP Boundary (at nearest point)
Nature Protection Areas and Scheduled Monuments within 5km of the Site boundary		
Teesmouth and Cleveland Coast Site of Special Scientific Interest (SSSI)	Ecological	within 500m of the Main Site boundary and 1.22Km of Tod Point
Teesmouth and Cleveland Coast Ramsar site	Ecological	within 500m of the Main Site boundary and 1.22Km of Tod Point
South Gare and Coatham Sands SSSI	Ecological	within 500m of the Main Site boundary
Seal Sands SSSI	Ecological	2.9 km west of the main Site and 3.8 km northeast of Tod Point
Seaton Dunes and Common SSSI	Ecological	2.9 km north west of the Main Site
Redcar Rocks SSSI	Ecological	3 km east of the Main Site
Tees and Hartlepool Foreshore and Wetlands SSSI	Ecological	4.1 km south west of the Main Site
Coatham Marsh	Ecological	650 m east of the Main Site
Eston Pumping Station	Ecological	1.1 km south west of the Main Site

There are no scheduled monuments within 5 km of the Site boundary.

The location and distribution of sensitive features in relation to the Site including habitats, and possible pathways are considered in the Impact Assessment section of the permit application.

The assessment concludes that potential hazards from the proposed remedial works are not likely to be significant and no further assessment is required.

5. Pollution Control Measures

5.1 Construction Environmental Management Plan

Works will be controlled by a Construction Environmental Management Plan (CEMP) which will be submitted and approved in accordance with Schedule 2, condition 16 of the DCO. The CEMP will set out a series of proposed measures that will be applied by the contractor to provide effective planning, management and control during construction to control potential impacts upon people, businesses and the natural and historic environment.

The CEMP was submitted in December 2024 for approval and includes but is not limited to:

- Air quality management plan;
- Noise and vibration management plan;
- Surface water and flood risk management plan;
- Landscape and biodiversity plan;
- Site waste management plan;
- Construction site lighting management plan;
- Invasive non-native species management plan;
- Pollution incident prevention plan; and
- Groundwater monitoring plan .

5.2 Site General Controls

5.2.1 Site Access Control

The PCC site will be secured via a perimeter fence, with access via Steel House Gate on Loverose Way, which will be manned 24 hours a day, 7 days a week. A full CCTV system will be present across the site which is monitored by security based in Steel House Gate. Tod Point will be secured by a perimeter fence.

5.2.2 Operating Hours

The construction hours will be in accordance with the DCO condition 20, which states that "*Construction work and delivery or removal of materials, plant and machinery will not take place on bank holidays nor otherwise outside the hours of:*

a) 0700 to 1900 hours Monday to Friday; and

b) 0700 to 1300 hours on a Saturday.

The above construction hours do not preclude:

a) A start-up period from 0630 to 0700 Monday to Saturday and a shutdown period from 1900 to 1930 Monday to Friday and 1300 to 1330 on a Saturday; or

b) Maintenance at any time of plant and machinery engaged in the construction.

5.2.3 Site Laydown and Welfare

Proposed construction laydown areas, including storage, site offices, welfare facilities and car parking, will be located at various places within the Site boundary.

Clearance, levelling and ground preparation works for these laydown areas may be required to provide a suitable surface material. The surface material will be permeable so as to allow rainwater to percolate to ground.

5.2.4 Water Management

Site will implement a Surface Water and Flood Risk Management Plan [14] which includes following best practice guidance as provided in CIRIA C811 Environmental good practice on site guide 5th edition guide for drainage and prevention of silt pollution.

Prior to and during any topsoil stripping, prevent pollution of surface watercourses and drains by suspended solids by covering drains with drain covers and ensuring that surface water run-off is collected, and discharge consents (if necessary) are obtained from regulatory bodies prior to discharge. Currently there are no anticipated discharges to controlled waters

5.2.5 Material Management

Fuel will be stored and used in accordance with the Control of Substances Hazardous to Health Regulations 2002, and the Control of Pollution (Oil Storage) (England) Regulations 2001.

Above ground storage tanks, drums and containers will be sited on an impermeable base within a bund. The bund will be constructed of a material impermeable to the liquid stored and capable of holding 110% of the largest container or 25% of the total capacity of all tanks, whichever is greater.

Particular care will be taken in accordance with industry standards with the delivery and use of concrete and cement as it is highly corrosive and alkaline.

5.2.6 Control of Onsite Plant

Good practice will be employed for the siting and operation of non-road mobile machinery to control associated emissions, including:

- Minimise vehicle and plant idling;
- Vehicles and plant will be switched off and secured when not in use and construction vehicles will conform to current emissions standards;
- Vehicle, plant and equipment maintenance records will be kept on-site and reviewed regularly;
- Where possible, locating static plant away from sensitive boundaries or receptors; and,
- Minimise operating time outside of normal working hours/ daylight hours.

Refuelling and delivery areas would be located away from surface water drains and all washing down of vehicles and equipment will take place in designated areas and wash water will be prevented from passing untreated into watercourses.

5.3 Site Engineering

The Site will be developed using a waste recovery operation to redeposit excavated remediated waste material to create a development platform on which NZT will be built as fully detailed in the Waste Recovery Plan.

5.3.1 Materials and Material Testing

Pollution will be prevented by use of waste materials accepted in accordance with the Waste Acceptance Procedure set out in Appendices E - G of the Waste Recovery Plan (EPR-ZP3827SK-WRP-R04) .

Prior to the Technical Team approving the materials as suitable for the recovery work, the materials will be subjected to the following testing:

- Chemical Testing – to confirm the material is acceptable in accordance with waste acceptance controls; and
- Geotechnical Testing – to confirm the material meets the minimum requirements set out in the Construction Quality Assurance (CQA) for the individual works.

[14] Balfour Beatty, “Construction Environmental Management Plan – Appendix C2 Surface Water and Flood Risk Management Plan”, ref: MCC21001-257-A00-XX-PRM-EV-00001, December 2024

Materials will be tested in accordance with the specified testing frequencies and any material found not to be suitable for use either prior to stockpiling or prior to its final placement will be removed from site via an appropriate licensed waste management route.

5.3.2 Construction Quality Assurance Requirements

The NZT Power Project Manager will:

- Assess the method statement submitted by the Contractor for the reuse, placement and compaction of the materials;
- Ensure that any material deemed unsuitable in accordance with the specification is removed to an area agreed with NZT Power and hence for appropriate disposal;
- Monitor the works, ensuring that it is carried out in accordance with the specifications;
- Ensure that all areas of non-compliance are remediated in accordance with the specifications;
- Take photographs as appropriate during the construction; and
- Ensure each item above is documented and be presented in a CQA Validation Report if required by the environmental permit.

5.4 Surface Water Management

5.4.1 Drainage

The CEMP will be supported by a Surface Water and Flood Risk Management Plan that is included as a technical appendix. This plan will provide greater detail regarding the mitigation to be implemented to protect the water environment from adverse impacts during construction.

The contractor will ensure that construction staff are fully aware of the potential impact to water resources associated with the construction works and procedures to be followed in the event of an accidental pollution event occurring. This would be included in the site induction and training, with an emphasis on procedures and guidance to reduce the risk of water pollution.

All reasonably practicable measures will be taken to prevent the deposition of fine sediment or other material in any existing waterbody, arising from construction activities. The measures will accord with the principles set out in industry guidelines including the CIRIA report 'C532: Control of water pollution from construction sites'.

- A temporary positive drainage system will be developed to prevent runoff contaminated with fine particulates from entering surface water drains without treatment. This will include identifying all land drains and water bodies on the Site and ensuring that they are adequately protected.
- Discharge to such water bodies (directly or indirectly) will only be made with the permission of the Environment Agency and with the necessary treatment measures implemented. Currently there are no anticipated discharges to controlled waters.
- To protect waterbodies from fine sediment runoff, topsoil/subsoil will be stored a as far from watercourses as possible on flat lying land.
- Appropriately sized retention ponds/lagoons for the settlement of excessive fine particulates in runoff will be provided. If water is uncontaminated, it may be pumped to an area of open ground/excavation/soakaway or removed from site by vacuum tanker. The site will operate a permit to pump system for temporary discharge of collected water to ensure compliance with the EA Pollution Prevention Guidelines and their regulatory position statement.
- Mud deposits will be controlled at entry and exit points to the Site using wheel washing facilities and/ or road sweepers operating during earthworks activities or other times as considered necessary.
- Debris and other material will be prevented from entering surface water drainage, through maintenance of a clean and tidy site, provision of clearly labelled waste receptacles, grid covers and the presence of site security fencing.
- Foul water from any site compound (including temporary toilets) will be tankered away to an appropriate disposal facility by a licensed waste disposal contractor.

- If any suspected contaminated material is discovered during the works, the contractor would be required to investigate the areas and assess the need for containment or disposal of the material. If material is considered to be contaminated, it would be disposed of to an appropriately licensed facility.
- Foundations and services would be designed and constructed to prevent the creation of pathways for the migration of contaminants and would be constructed of materials that are suitable for the ground conditions and designed use. For example, water supply pipes would be designed in accordance with current good practice and applicable guidance to ensure pipes are protected from potential impacts associated with contamination.
- No discharges from any self-contained wheel wash and localised wheel wash would be permitted to discharge directly into any surface water system. Such water will be assessed to determine if it can be treated/filtered and reused.

5.5 Amenity Management

5.5.1 Dust

Given the nature of the waste streams, the potential for fugitive releases of dust is not significant. Dust will be prevented on the site wherever possible as defined in the Pollution Incident Prevention Plan[3] and the following mitigation measures will be employed:

- On-site vehicle movements over concrete and tarmac surfacing where possible and plant will operate to specific speed limits, reducing the potential for dust to become air borne.
- Lorries transporting the friable waste materials into and from the site will be enclosed or sheeted to reduce emissions;
- The site will operate with high standards of housekeeping, and the plant will be maintained to high standards to minimise fugitive emissions.
- Waste and other construction materials will stored in designated stockpiles and storage areas. Water suppression to minimise dust emissions in dry weather will be available.
- In the event of a sustained period of dry weather the potential for dust emissions is likely to be increased. Under these conditions dust will be suppressed and controlled by periodic sweeping and/or water dowsing on site and on the access and egress roads

5.5.2 Mud and Dirt

- All washing down of vehicles and equipment will take place in designated areas and wash water will be prevented from passing untreated into watercourses.
- Covering materials, deliveries or loads entering and leaving the construction site for the purposes of preventing materials and dust spillage in transit;
- Vehicles transporting materials within or outside the construction site will not be overloaded and wheel wash systems will be employed at site exits.

5.5.3 Litter

The Site Manager will maintain high standards of housekeeping and will employ the following control measures:

Due to the nature of the permitted wastes, litter is not likely to present a nuisance to any surrounding receptors; however, the following measures will be implemented:

- Wastes will be controlled in accordance with the Site Waste Management Plan15
- Wastes entering and leaving the site will be in sheeted/sealed/containerised vehicles;
- Staff will be required to keep the site and its surrounds tidy; and

[15] Balfour Beatty, “Construction Environmental Management Plan – Appendix C5 Site Waste Management Plan”, ref: MCC21001-257-A00-XX-PRM-EV-00002, December 2024

- Daily inspections will be carried out; any litter will be retrieved and deposited within the waste reception areas.

5.5.4 Pests

The site will be inspected for vermin and pests on a regular basis, and if their presence is detected, the Site Manager will implement appropriate control measures. A pest control firm will be contracted to carry out regular controls, records of which will be available for inspection on site.

Scavenging animals will be discouraged by ensuring waste is covered and cannot be easily accessed.

5.5.5 Odour

There will be no construction activity that has the potential to release any significant malodorous substances. Therefore no specific mitigation measures are proposed at this time.

5.5.6 Noise

General controls are detailed in the Noise and Vibration Management Plan [16] to be used include but are not limited to:

- Avoidance of working in the more sensitive evening and night times where possible.
- Ensuring processes are in place to minimise noise before works begin and ensuring that best practicable measures (BPM) are being achieved throughout the construction programme.
- Ensuring that modern plant is used, complying with the latest noise emission requirements. Selection of inherently quiet plant where possible.
- All plant and equipment being used for the works to be properly maintained, silenced where appropriate, operated to prevent excessive noise and switched off when not in use.
- Use of screening locally around significant noise producing plant and activities.
- Locating plant and equipment liable to create noise as far from sensitive receptors, as reasonably practicable.

5.6 Post Closure Controls (Aftercare)

5.6.1 Proposed After-use of the Site

The proposed after use of the site is as a CCGT power plant with carbon capture.

5.6.2 Post-Closure Water Management

Post closure water management will be through the as-built CCGT drainage scheme approved under the separate Environmental Permit for the PCC Site.

5.6.3 Likelihood of Mining Related Subsidence, Differential Settlement and Structural Failure

Given the nature of the materials and the requirements to construct the facility in accordance with relevant building and engineering standards, it is unlikely that subsidence, settlement or structural failure will occur.

5.6.4 Completion Criteria

It is proposed that the monitoring of groundwater will continue in accordance with the Groundwater Management Plan (reference: ZP3827SK-GMP-R02 in part 9 of the application) for a minimum of 12 months to demonstrate no deterioration to groundwater quality has occurred due to the completion of the recovery operations.

It should be noted that following completion of the construction works, the PCC facility will be operated in accordance with a separate installation permit and groundwater monitoring will be required to meet conditions specified in this permit.

[16] Balfour Beatty, “Construction Environmental Management Plan – Appendix C3 Noise and Vibration Management Plan”, ref: MCC21001-257-A00-XX-PRM-EV-00008, December 2024

6. ESSD Compliance Points

6.1 Groundwater

The compliance point is the point of entry into the groundwater at the downstream monitoring boreholes listed in Table 12 below.

Table 12. Compliance Points

Borehole ID	Location		Response Zone (m bgl)	Aquifer
	Easting	Northing		
Main Site				
M-BH210	546965.422	525815.866	7.70 to 10.70	Tidal Flats Deposit
MS\BH04S	457410.78	525626.54	4.29 to 7.29	Tidal Flats Deposit
S2 BHA04D	457120.7	525744.55	0.77 to 4.17	Tidal Flats Deposit
M-BH206S	457299.816	525468.288	7.70 to 10.70	Tidal Flats Deposit
Tod Point				
M-BH207D	456982.094	523855.397	7.50 to 9.50	Tidal Flats Deposit

The location of all the above compliance points plus the associated upstream monitoring points are shown on drawing NZT_GI_241203_P11_v3 sheets 1 and 2 in Appendix A.

6.2 Surface Water

There are no planned discharges to controlled waters at the time of writing. In the event that temporary discharges to, watercourses are required, compliance points will be the downstream monitoring points which will be developed by the Principal Contractor in consultation with the Environment Agency.

7. ESSD Monitoring

7.1 Weather

7.1.1 Weather Monitoring

Weather conditions at the installation will be monitored and logged daily including:

- wind speed,
- wind direction,
- rainfall.

7.1.2 Rainfall

The nearest MET office run weather station is in Loftus, approximately 17km south east of the Site. A climate summary (1991-2020) indicates that the average annual rainfall for the surrounding area is 632.75 mm/year.

7.1.3 Prevailing Wind Direction

The prevailing wind direction is from the south-south-west.

7.2 Amenity Monitoring

The Construction Subcontractor will carry out formal HSEQ (Health, Safety, Environment & Quality) inspections of all work areas in accordance with the Project Quality Plan.

The Construction Subcontractor will utilise an observations app for identification of near miss/good practice reporting.

Inspections and observations shall be categorised and distributed. The inspections and observations will detail realistic timescales for actions, and these will be monitored by the site team. Action owners will be appointed to discharge any corrective actions.

Data from inspections shall be used for trend analysis purposes to allow pinpoint targeting of recurring issues.

7.3 Site Survey

During the proposed recovery activities, topographic survey data will be used to support excavation extents and depths.

7.4 Waste Monitoring

The requirements for the waste acceptance will be defined in the written site procedure which will meet EA regulatory requirements as detailed in EA appropriate measures and WM3 guidance Waste Acceptance Procedures will be subject to ongoing review and revision as appropriate. The proposed procedure is presented in Appendix E - G of the Waste Recovery Plan and has been prepared with reference to the Environment Agency guidance ‘Waste Acceptance Procedures for Deposit for Recovery’. The procedure will be subject to review and update as appropriate, and the current version of the procedure will be available onsite.

7.5 Water Monitoring

7.5.1 Groundwater Monitoring

7.5.1.1 Groundwater Monitoring Infrastructure

A total of eleven monitoring boreholes are proposed for monitoring groundwater levels and quality (8 no. at Main Site and 3 no. at Tod Point). The proposed locations are summarised in Table 13 below and are shown on drawing NZT_GI_241203_P11_v3 sheets 1 and 2 in Appendix A.

Table 13. Groundwater Monitoring Points.

Borehole ID	Location		Response Zone (m bgl)	Aquifer
	Easting	Northing		
Main Site				
M-BH210	546965.422	525815.866	7.70 to 10.70	Tidal Flats Deposit
MS\BH04S	457410.78	525626.54	4.29 to 7.29	Tidal Flats Deposit
S2 BHA04D	457120.7	525744.55	0.77 to 4.17	Tidal Flats Deposit
M-BH206S	457299.816	525468.288	7.70 to 10.70	Tidal Flats Deposit
MS\BH14	457078.83	525022.23	5.109 to 8.109	Tidal Flats Deposit
MS\BH15D	456595.24	525580.739	9.053 to 12.053	Tidal Flats Deposit
M-BH204	456791.42	525580.739	7.70 to 10.70	Tidal Flats Deposit
M-BH205	456717.144	525395.053	6.70 to 9.70	Tidal Flats Deposit
Tod Point				
M-BH207D	456982.094	523855.397	7.50 to 9.50	Tidal Flats Deposit
M-BH208D	457075.983	523919.676	9.30 to 10.50	Tidal Flats Deposit
M-BH212	457114.509	523888.49	7.50 to 8.50	Tidal Flats Deposit

mbgl – metres below ground level (Main Site: depths based on post remediation ground level at 7.3 mAOD)

7.5.1.2 Groundwater Monitoring

Samples will be collected in accordance with the Groundwater Monitoring Plan in accordance with the schedule shown in Table 14 below.

Table 14. Groundwater Monitoring Schedule

Monitoring Points	Parameter	Frequency
Main Site Boreholes.	**In-field Parameters** Depth to groundwater, depth to base of borehole, pH, temperature, electrical conductivity, dissolved oxygen and Redox potential **Laboratory Analysis** Inorganics (Total cyanide, Ammoniacal Nitrogen as N and Ammoniacal Nitrogen as NH3) Metals (aluminium, arsenic, cadmium, copper, lead, mercury, vanadium and zinc) PAHs (naphthalene, acenaphthylene, anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, benzo(a)pyrene, benzo(g,h,i)perylene, benzo(b)fluoranthene, benzo(k) fluoranthene	Quarterly during recovery and surrender (Estimate 4 years to the end of construction)
Tod Point Boreholes	**In-field Parameters** Depth to groundwater, depth to base of borehole, pH, temperature, electrical conductivity, dissolved oxygen and Redox potential **Laboratory Analysis** Inorganics (Total cyanide, Ammoniacal Nitrogen as N and Ammoniacal Nitrogen as NH3) Metals (aluminium, arsenic, cadmium, copper, lead, mercury, vanadium and zinc) PAHs (naphthalene, acenaphthylene, anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, benzo(a)pyrene, benzo(g,h,i)perylene, benzo(b)fluoranthene, benzo(k) fluoranthene	Quarterly during recovery and surrender (Estimate 4 years to the end of construction)

7.5.2 Surface Water Monitoring

There are no planned discharges to controlled waters at the time of writing. In the event that temporary discharges to, watercourses are required, monitoring will be undertaken by the Principal Contractor as agreed in consultation with the Environment Agency.

7.6 Gas Monitoring

The materials being reused on to site have a negligible potential for gas generation and as such there will be no gas monitoring infrastructure installed as part of the proposed recovery activities.

Appendix A Figures

A.1 Figure ESSD-1 Site Location and Installation Boundary – Main Site

A.2 Figure ESSD-2 Site Location and Installation Boundary – Tod Point

A.3 Figure ESSD-3 Site Setting and Ecological Receptors

A.4 Figure ESSD-4 Site Setting and Residential Receptors

A.5 Figure ESSD-5 Conceptual Cross Section (Main Site)

A.6 Figure ESSD-6 Conceptual Cross Section (Tod Point)

A.7 Figure ESSD-7 Superficial Deposits

A.8 Figure ESSD-8 Bedrock Geology

A.9 Figure ESSD-9 Superficial Aquifer Designation

A.10 Figure ESSD-10 Bedrock Aquifer Designation

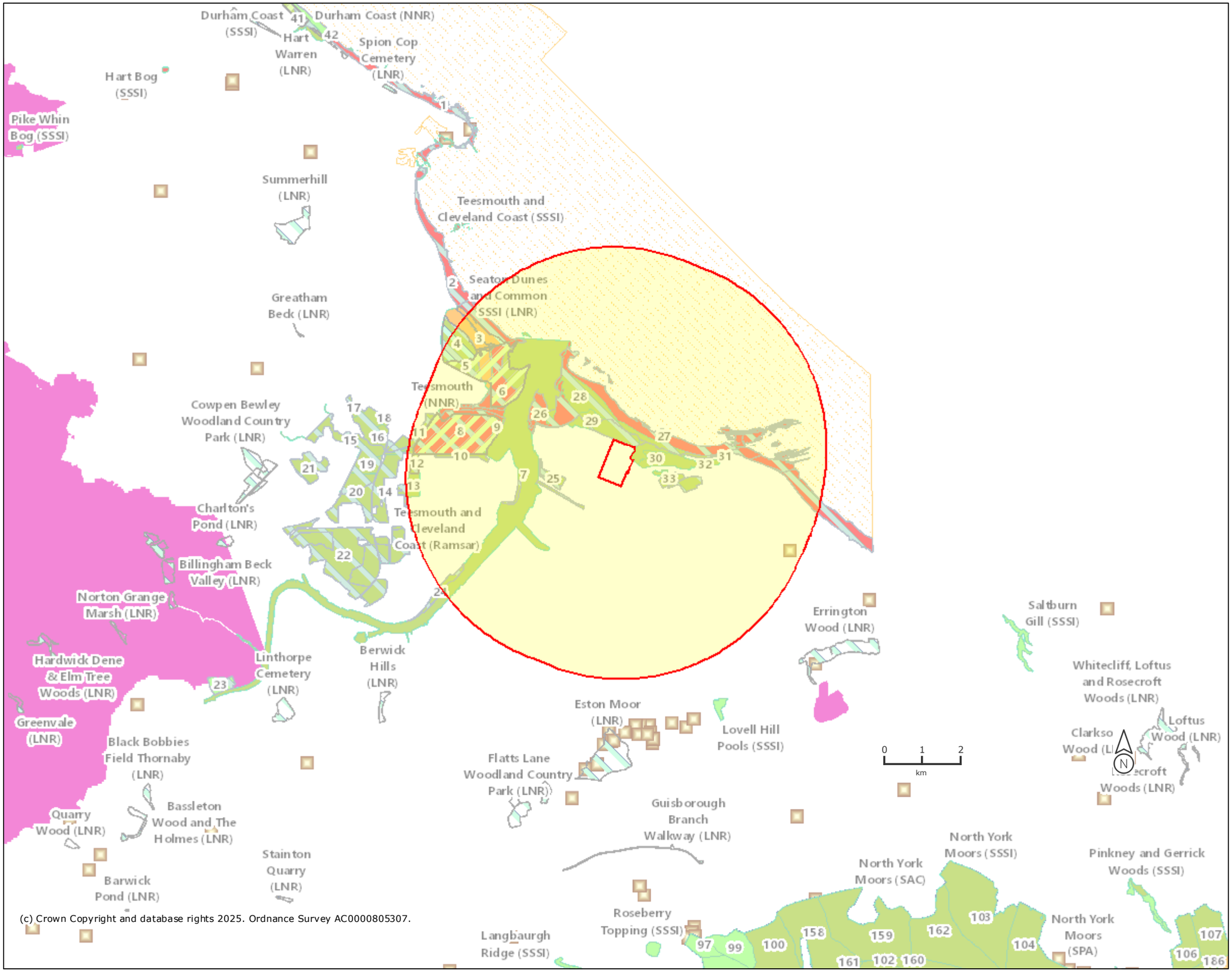
A.11 Drawing NZT_GI_241203_P11_v3 – Groundwater Monitoring Point

Appendix B Envirocheck Report

Appendix C Historical Use Data

Appendix D MAGIC Report

Magic Map



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Legend

- Areas of Outstanding Natural Beauty (England)
- Local Nature Reserves (England)
- National Nature Reserves (England)
- Ramsar Sites (England)
- Proposed Ramsar Sites (England)

Sites of Special Scientific Interest Units (England)

- Favourable Condition
- Unfavourable Recovering
- Unfavourable no change
- Unfavourable Declining
- Part Destroyed
- Destroyed
- Not Assessed
- Sites of Special Scientific Interest (England)
- Special Areas of Conservation (England)
- Possible Special Areas of Conservation (England)
- Special Protection Areas (England)
- Potential Special Protection Areas (England)
- Biosphere Reserves (England)
- Nitrate Vulnerable Zones 2017 Designations (England)
- Scheduled Monuments (England) - points

Marine Conservation Zones (England)

- Marine Conservation Zone
- Highly Protected Marine Area

Special Areas of Conservation (Marine Components GB)

- Candidate
- Designated
- Possible

Projection = OSGB36
xmin = 431600
ymin = 512600
xmax = 482400
ymax = 536700

0 2 4
km

Map produced by MAGIC on 24 January, 2025.

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Site Check Report Report generated on Fri Jan 24 2025
You selected the location: Centroid Grid Ref: NZ56962523
The following features have been found in your search area:

Local Nature Reserves (England) - points

Reference	1009326
Name	SEATON DUNES AND COMMON SSSI
Hectares	96.35
Hyperlink	https://designatedsites.naturalengland.org.uk/SiteLNRDetail.aspx?SiteCode=L1009326

Local Nature Reserves (England)

Reference	1009326
Name	SEATON DUNES AND COMMON SSSI
Hectares	96.35
Hyperlink	https://designatedsites.naturalengland.org.uk/SiteLNRDetail.aspx?SiteCode=L1009326

National Nature Reserves (England) - points

Name	TEESMOUTH
Reference	1006937
Hyperlink	https://www.gov.uk/government/publications/clevelands-national-nature-reserves/clevelands-national-nature-reserves#teesmouth
Hectares	359.57

National Nature Reserves (England)

Name	TEESMOUTH
Reference	1006937
Hectares	359.57
Hyperlink	https://www.gov.uk/government/publications/clevelands-national-nature-reserves/clevelands-national-nature-reserves#teesmouth

Ramsar Sites (England) - points

Name	TEESMOUTH AND CLEVELAND COAST
Reference	UK11068
Hectares	1253.76

Ramsar Sites (England)

Name	TEESMOUTH AND CLEVELAND COAST
Reference	UK11068
Hectares	1253.76

Proposed Ramsar Sites (England) - points

Name	TEESMOUTH AND CLEVELAND COAST
Reference	UK11068
Hectares	2085.29

Proposed Ramsar Sites (England)

Name	TEESMOUTH AND CLEVELAND COAST
Reference	UK11068
Hectares	2085.29

Sites of Special Scientific Interest Units (England) - points

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481908
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034471
Hectares	143.48
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034471

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481911
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034474
Hectares	0.77
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034474

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482078
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034450
Hectares	719.9
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034450

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482079
Site Unit Condition	UNFAVOURABLE DECLINING
Citation	1034451
Hectares	216.12
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034451

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482084
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034456
Hectares	19.09
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034456

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482076
Site Unit Condition	UNFAVOURABLE DECLINING
Citation	1034449
Hectares	84.2
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034449

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481910
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034473
Hectares	47.04
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034473

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482081
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034453
Hectares	14.97
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034453

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482080
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034452
Hectares	9.41
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034452

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481891
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034454
Hectares	34.69
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034454

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482083
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034455
Hectares	10.17
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034455

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481909
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034472
Hectares	65.75
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034472

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481883
Site Unit Condition	UNFAVOURABLE NO CHANGE
Citation	1034446

Hectares	99.52
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034446

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481913
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034476
Hectares	36.12
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034476

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482097
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034468
Hectares	26.71
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034468

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482074
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034448
Hectares	20.85
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034448

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481906
Site Unit Condition	UNFAVOURABLE DECLINING
Citation	1034469
Hectares	79.65
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034469

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481912
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034475
Hectares	5.99
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034475

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481884
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034447
Hectares	76.02
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034447

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481907
Site Unit Condition	UNFAVOURABLE DECLINING
Citation	1034470
Hectares	294.36
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034470

Sites of Special Scientific Interest Units (England)

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481908
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034471
Hectares	143.48
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034471

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481911
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034474
Hectares	0.77
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034474

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482095
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034467
Hectares	20.47
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034467

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482078
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034450
Hectares	719.9
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034450

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482086
Site Unit Condition	UNFAVOURABLE RECOVERING
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Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482079
Site Unit Condition	UNFAVOURABLE DECLINING
Citation	1034451
Hectares	216.12
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034451

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482084
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034456
Hectares	19.09
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034456

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482076
Site Unit Condition	UNFAVOURABLE DECLINING
Citation	1034449
Hectares	84.2
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034449

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481910
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034473
Hectares	47.04
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034473

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482085
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034457
Hectares	74.12
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Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482081
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034453
Hectares	14.97
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034453

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482080
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034452
Hectares	9.41
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034452

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481891
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034454
Hectares	34.69
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034454

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482071
Site Unit Condition	UNFAVOURABLE DECLINING
Citation	1034445

Hectares	115.8
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Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482083
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034455
Hectares	10.17
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034455

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481909
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034472
Hectares	65.75
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034472

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481883
Site Unit Condition	UNFAVOURABLE NO CHANGE
Citation	1034446
Hectares	99.52
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034446

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481913
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034476
Hectares	36.12
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034476

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482097
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034468
Hectares	26.71
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034468

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1482074
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034448
Hectares	20.85
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034448

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481906
Site Unit Condition	UNFAVOURABLE DECLINING
Citation	1034469
Hectares	79.65
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034469

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481912
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034475
Hectares	5.99
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034475

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481884
Site Unit Condition	UNFAVOURABLE RECOVERING
Citation	1034447
Hectares	76.02
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034447

Name	TEESMOUTH AND CLEVELAND COAST
Reference	1481907
Site Unit Condition	UNFAVOURABLE DECLINING
Citation	1034470
Hectares	294.36
Hyperlink	http://designatedsites.naturalengland.org.uk/UnitDetail.aspx?UnitId=1034470

Sites of Special Scientific Interest (England) - points

Name	Teesmouth and Cleveland Coast SSSI
Reference	1003200
Natural England Contact	NULL
Natural England Phone Number	0845 600 3078
Hectares	2964.37
Citation	2000856
Site Details Hyperlink	http://designatedsites.naturalengland.org.uk/SiteDetail.aspx?SiteCode=s2000856
Site Feature Condition Hyperlink	https://designatedsites.naturalengland.org.uk/SiteFeatureCondition.aspx?SiteCode=s2000856&SiteName=Teesmouth and Cleveland Coast SSSI

Sites of Special Scientific Interest (England)

Name	Teesmouth and Cleveland Coast SSSI
Reference	1003200
Natural England Contact	NULL
Natural England Phone Number	0845 600 3078
Hectares	2964.37
Citation	2000856
Site Details Hyperlink	http://designatedsites.naturalengland.org.uk/SiteDetail.aspx?SiteCode=s2000856
Site Feature Condition Hyperlink	https://designatedsites.naturalengland.org.uk/SiteFeatureCondition.aspx?SiteCode=s2000856&SiteName=Teesmouth and Cleveland Coast SSSI

SSSI Impact Risk Zones - for LPAs to determine likely impacts on terrestrial SSSIs and when to consult Natural England

GUIDANCE - How to use the Impact Risk Zones	/Metadata_for_magic/SSSI IRZ User Guidance MAGIC.pdf
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Scheduled Monuments (England) - points

Name	World War I early warning acoustic mirror 650m north west of Bridge Farm
Scale of Capture	1:10000
Reference	1020311
Easting	461480
Northing	522952
Date	07/11/2001
Area (Ha)	0.018338
Hyperlink	https://historicengland.org.uk/listing/the-list/list-entry/1020311

Scheduled Monuments (England)

Name	World War I early warning acoustic mirror 650m north west of Bridge Farm
Scale of Capture	1:10000
Reference	1020311
Easting	461480
Northing	522952
Date	07/11/2001
Area (Ha)	0.018338
Hyperlink	https://historicengland.org.uk/listing/the-list/list-entry/1020311

Special Protection Areas (Marine Components GB)

UK Site Code	UK9006061
Site Name	Teesmouth and Cleveland Coast
Site Status	SPA
Status	Classified
Country	England inshore
CP2 Region	Northern North Sea
Area (Ha)	12210.6165
Consultation Date	31/07/2018
Classification Date	01/08/1995
Responsible Agency	NE
WDPA Code	555541782
LONG	-1.150565
LAT	54.670023

Areas of Outstanding Natural Beauty (England)
No Features found

Special Areas of Conservation (England) - points
No Features found

Special Areas of Conservation (England)
No Features found

Possible Special Areas of Conservation (England) - points
No Features found

Possible Special Areas of Conservation (England)
No Features found

Special Protection Areas (England) - points
No Features found

Special Protection Areas (England)
No Features found

Potential Special Protection Areas (England) - points
No Features found

Potential Special Protection Areas (England)
No Features found

Biosphere Reserves (England) - points
No Features found

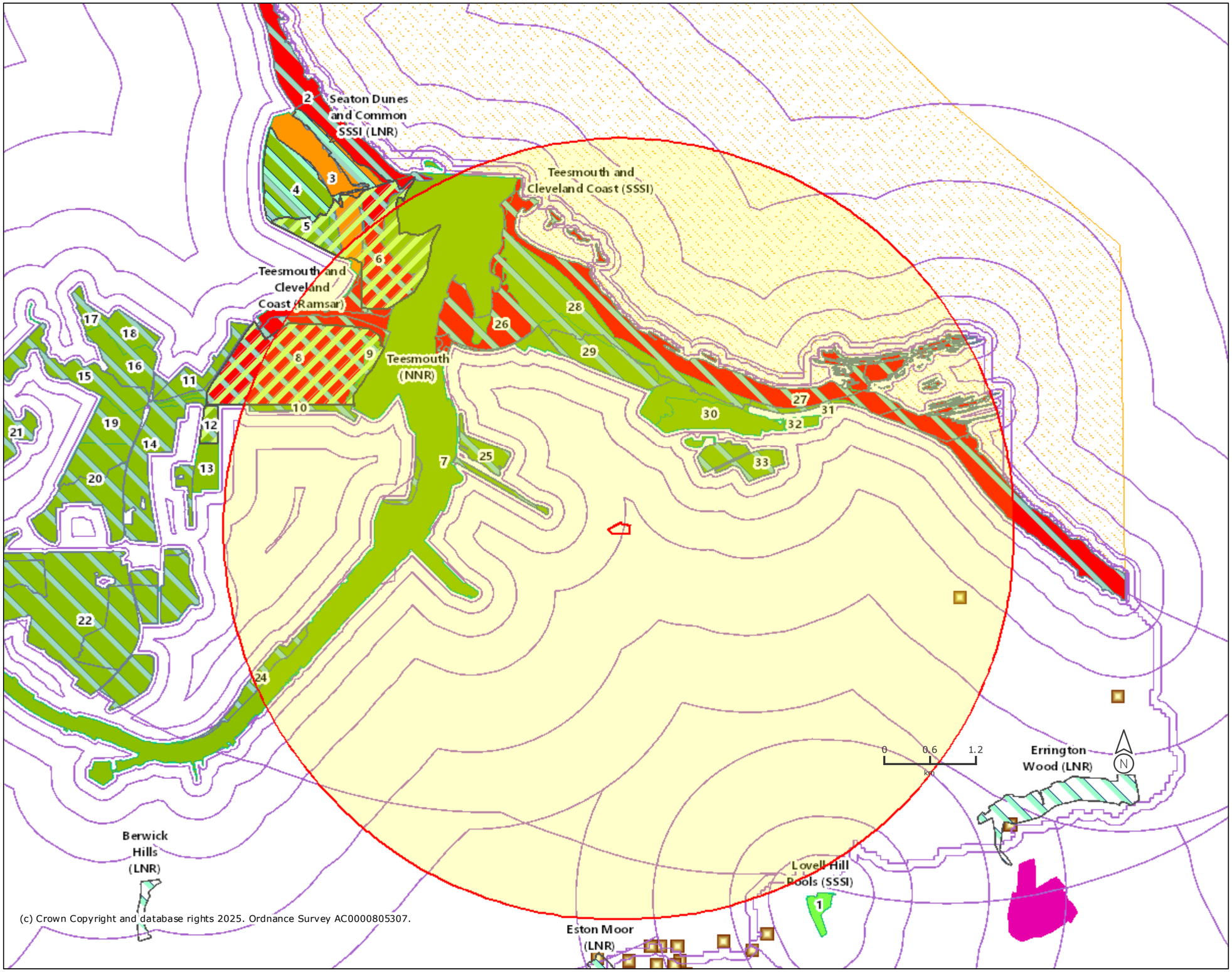
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Nitrate Vulnerable Zones 2017 Designations (England)
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Marine Conservation Zones (England)
No Features found

Special Areas of Conservation (Marine Components GB)
No Features found

Magic Map



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Legend

- Areas of Outstanding Natural Beauty (England)
- Local Nature Reserves (England)
- National Nature Reserves (England)
- Ramsar Sites (England)
- Proposed Ramsar Sites (England)

Sites of Special Scientific Interest Units (England)

- Favourable Condition
- Unfavourable Recovering
- Unfavourable no change
- Unfavourable Declining
- Part Destroyed
- Destroyed
- Not Assessed
- Sites of Special Scientific Interest (England)
- SSSI Impact Risk Zones - for LPAs to determine likely impacts on terrestrial SSSIs and when to consult Natural England
- Special Areas of Conservation (England)
- Possible Special Areas of Conservation (England)
- Special Protection Areas (England)
- Potential Special Protection Areas (England)
- Biosphere Reserves (England)
- Nitrate Vulnerable Zones 2017 Designations (England)
- Scheduled Monuments (England) - points

Marine Conservation Zones (England)

- Marine Conservation Zone
- Highly Protected Marine Area

Projection = OSGB36
xmin = 444300
ymin = 518400
xmax = 469700
ymax = 530400

0 1 2
km

Map produced by MAGIC on 24 January, 2025.

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Site Check Report Report generated on Fri Jan 24 2025
You selected the location: Centroid Grid Ref: NZ57042384
The following features have been found in your search area:

SSSI Impact Risk Zones - for LPAs to determine likely impacts on terrestrial SSSIs and when to consult Natural England

GUIDANCE - How to use the Impact Risk Zones /Metadata_for_magic/SSSI IRZ User Guidance MAGIC.pdf
HYPERLINK https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0111242322231¬es=11101+11402&location=456154,523145%20(IRZ%20polygon%20centre)

GUIDANCE - How to use the Impact Risk Zones /Metadata_for_magic/SSSI IRZ User Guidance MAGIC.pdf
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Areas of Outstanding Natural Beauty (England)
No Features found

Local Nature Reserves (England) - points
No Features found

Local Nature Reserves (England)
No Features found

National Nature Reserves (England) - points
No Features found

National Nature Reserves (England)
No Features found

Ramsar Sites (England) - points
No Features found

Ramsar Sites (England)
No Features found

Proposed Ramsar Sites (England) - points
No Features found

Proposed Ramsar Sites (England)
No Features found

Sites of Special Scientific Interest Units (England) - points
No Features found

Sites of Special Scientific Interest Units (England)
No Features found

Sites of Special Scientific Interest (England) - points
No Features found

Sites of Special Scientific Interest (England)
No Features found

Special Areas of Conservation (England) - points
No Features found

Special Areas of Conservation (England)
No Features found

Possible Special Areas of Conservation (England) - points
No Features found

Possible Special Areas of Conservation (England)
No Features found

Special Protection Areas (England) - points
No Features found

Special Protection Areas (England)
No Features found

Potential Special Protection Areas (England) - points
No Features found

Potential Special Protection Areas (England)
No Features found

Biosphere Reserves (England) - points

No Features found

Biosphere Reserves (England)
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Nitrate Vulnerable Zones 2017 Designations (England)
No Features found

Scheduled Monuments (England) - points
No Features found

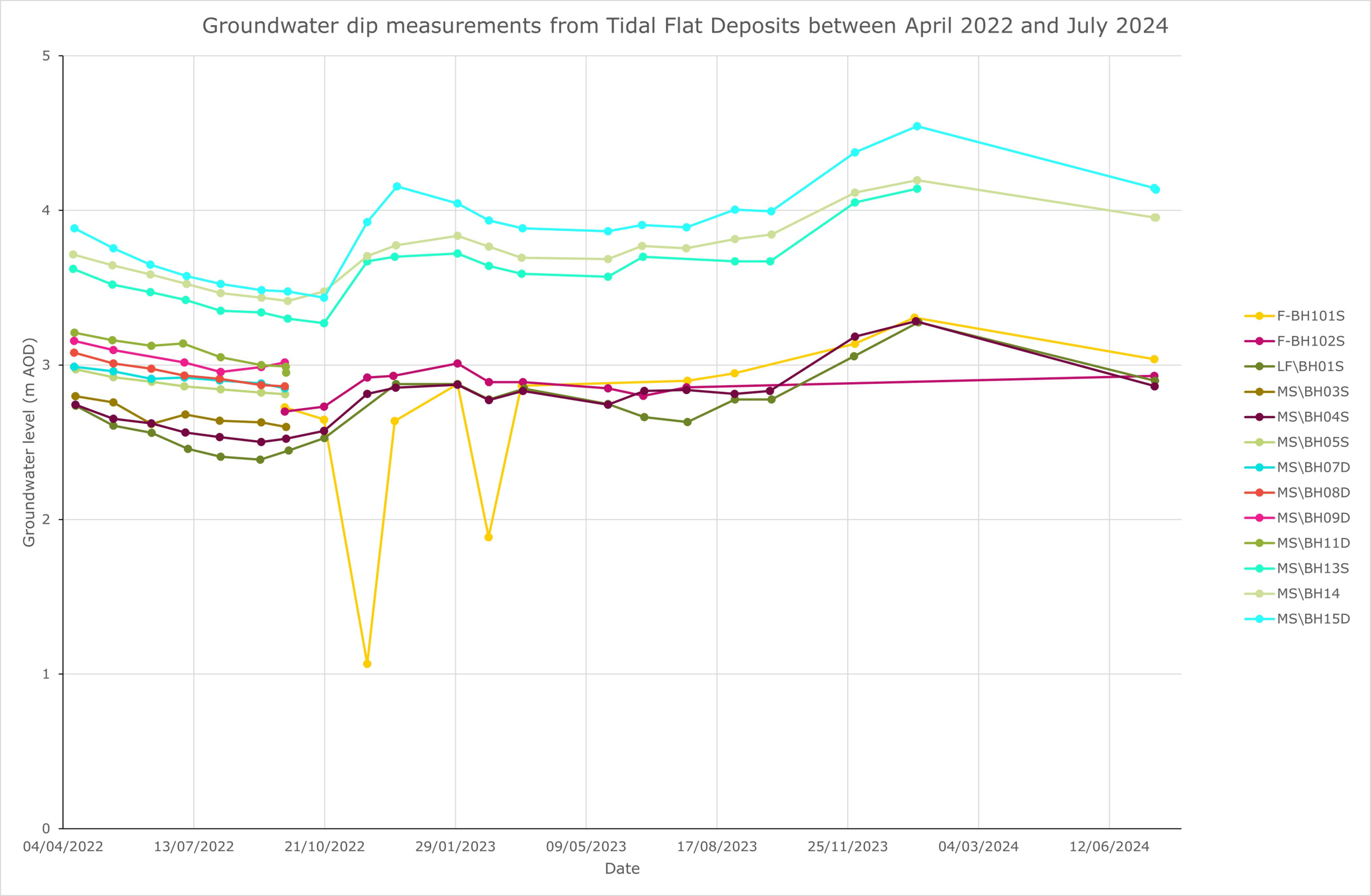
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Marine Conservation Zones (England)
No Features found

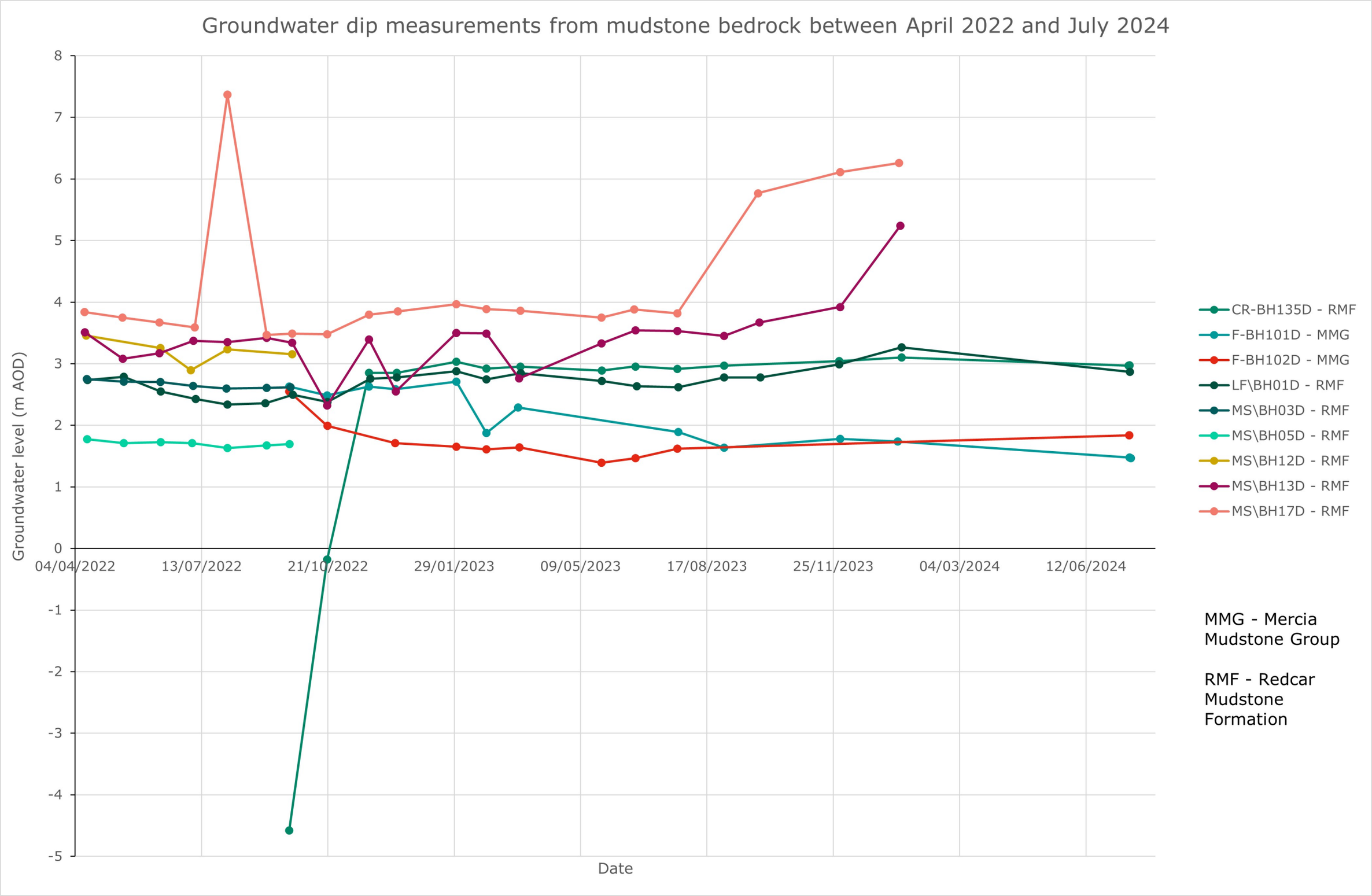
Special Areas of Conservation (Marine Components GB)
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Special Protection Areas (Marine Components GB)
No Features found

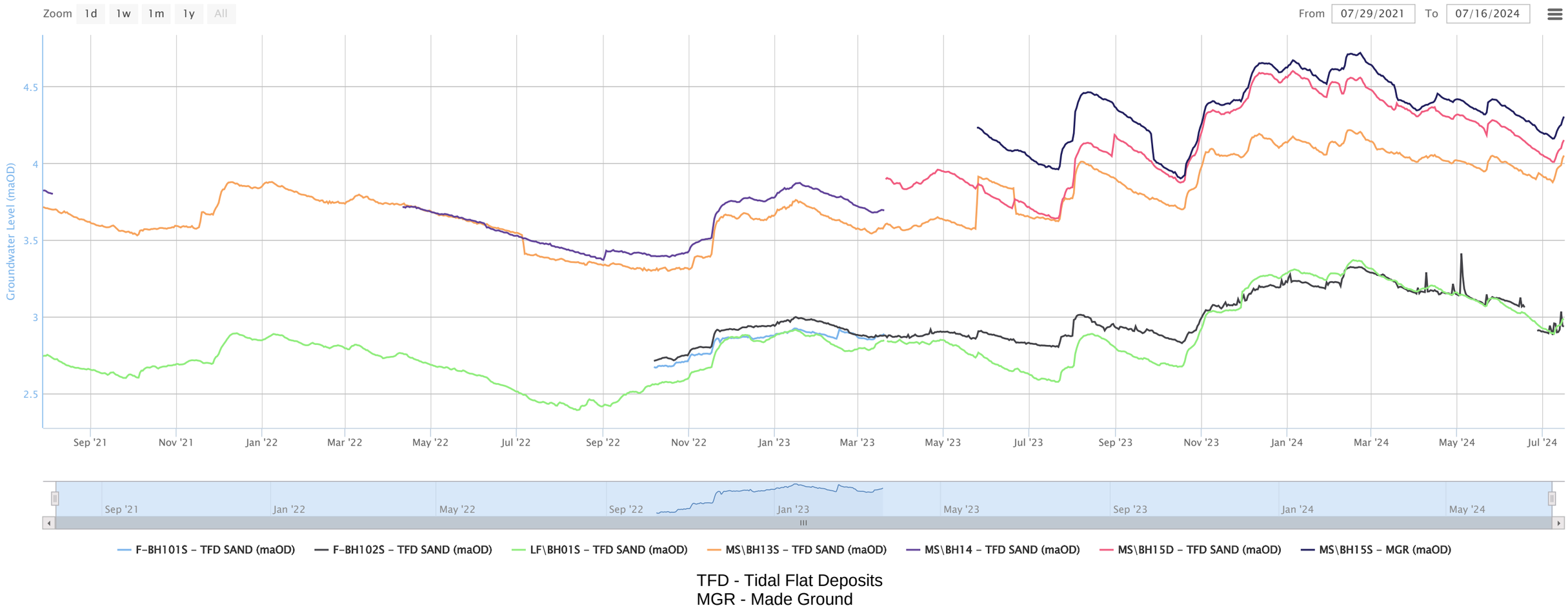
Appendix E Groundwater Level Data


Groundwater dip measurements from Tidal Flat Deposits between April 2022 and July 2024
Groundwater level (m AOD)
5
4
3
2
1
0
04/04/2022
13/07/2022
21/10/2022
29/01/2023
09/05/2023
17/08/2023
25/11/2023
04/03/2024
12/06/2024
Date
F-BH101S
F-BH102S
LF\BH01S
MS\BH03S
MS\BH04S
MS\BH05S
MS\BH07D
MS\BH08D
MS\BH09D
MS\BH11D
MS\BH13S
MS\BH14
MS\BH15D


Groundwater dip measurements from Glacial Till Deposits between April 2022 and July 2024
4
3
2
Groundwater level (m AOD)
04/04/2022
13/07/2022
21/10/2022
29/01/2023
09/05/2023
17/08/2023
25/11/2023
04/03/2024
12/06/2024
Date
MS\BH04D
MS\BH12S

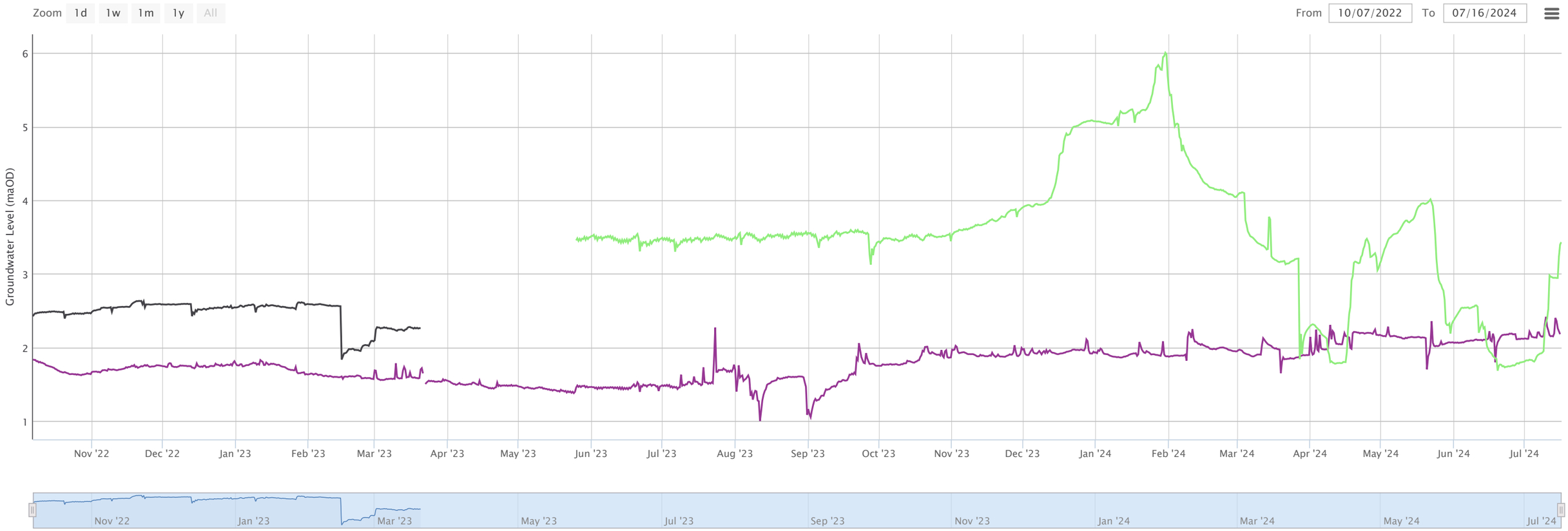

Groundwater dip measurements from mudstone bedrock between April 2022 and July 2024
Groundwater level (m AOD)
8
7
6
5
4
3
2
1
0
-1
-2
-3
-4
-5
04/04/2022
13/07/2022
21/10/2022
29/01/2023
09/05/2023
17/08/2023
25/11/2023
04/03/2024
12/06/2024
Date
CR-BH135D - RMF
F-BH101D - MMG
F-BH102D - MMG
LF\BH01D - RMF
MS\BH03D - RMF
MS\BH05D - RMF
MS\BH12D - RMF
MS\BH13D - RMF
MS\BH17D - RMF
MMG - Mercia Mudstone Group
RMF - Redcar Mudstone Formation

Groundwater levels within TFD and MGR between September 2021 and July 2024 using diver data

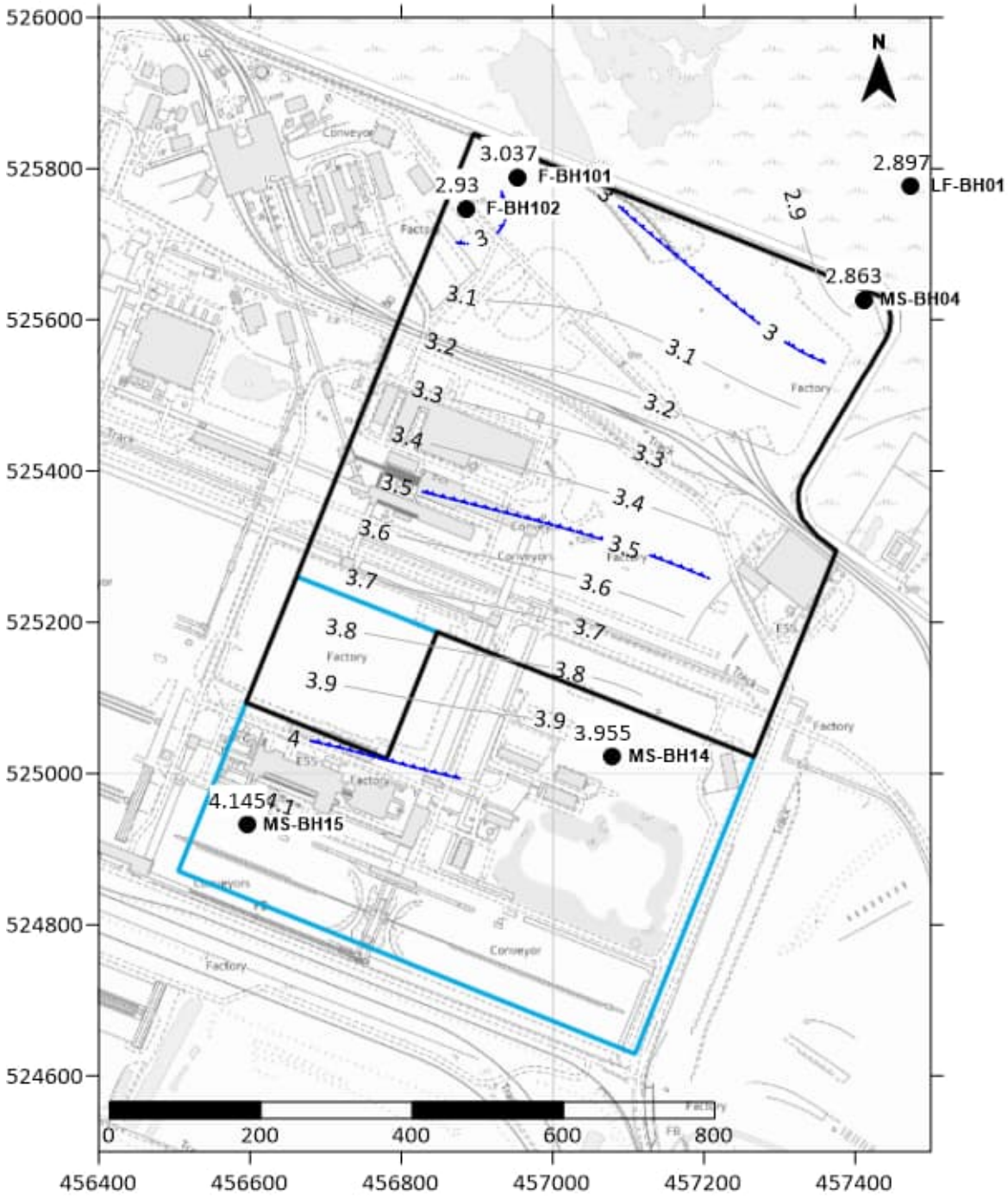


TFD - Tidal Flat Deposits
MGR - Made Ground

Groundwater levels within bedrock between October 2022 and July 2024 using diver data



MMG - Mercia Mudstone Group
RMU - Redcar Mudstone Formation



Key

Site Boundary

F-BH102 Borehole

Groundwater elevation value (m AOD)

m above Ordnance Datum (m AOD)

Elevation recorded by manual dip measurements on 16/07/2024

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Title: Groundwater elevation and inferred contours for TFD

Location: NZT PPC

Client: Net Zero Teesside Power Limited

AECOM

App'd	Drawn	Date
KS	HH	SEPT 2024
DRAFT		Version: 1
Scale: -		Project No: 60701533
Drg. Size: A4		Figure No: 1

Appendix F Groundwater Quality Data

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	LF\BH01S	LF\BH01S
				Date	20/10/2022	22/11/2022	23/11/2022	13/12/2022	20/03/2023	15/01/2024	16/07/2024	21/10/2024	21/10/2024	20/10/2022	22/11/2022	23/11/2022	13/12/2022	22/03/2023	21/06/2023	16/07/2024	22/10/2024	22/10/2024	13/08/2021	18/10/2021
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70
SVOC TICs	T			µg/L	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Dibutyltin	T			µg/L	-	-	-	-	-	-	< 1	< 1	-	-	-	-	-	-	-	-	-	< 1	-	< 1	-	-
Tributyltin	T	0.0002 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	< 1	-	-	-	-	-	-	-	-	-	< 1	-	< 1	-	-
Triphenyltin	T	0.008 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	< 1	< 1	-	-	-	-	-	-	-	-	-	< 1	-	< 1	-	-
Dibenzofuran	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
PCB 12	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	-	-	-	-	-	< 1	-	< 1	< 1	-	-	-	-	-	-	-
PCB 52	T	0.2 µg/L	*Laboratory LOD used*	µg/L	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-	-
PCB 77	T	0.3 µg/L	*Laboratory LOD used*	µg/L	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	-	-
PCB 81	T	0.2 µg/L	*Laboratory LOD used*	µg/L	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-	-
PCB 101	T	0.3 µg/L	*Laboratory LOD used*	µg/L	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	-	-
PCB 105	T	0.2 µg/L	*Laboratory LOD used*	µg/L	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-	-
PCB 114	T	0.3 µg/L	*Laboratory LOD used*	µg/L	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	-	-
PCB 126	T	0.5 µg/L	*Laboratory LOD used*	µg/L	< 0.5	-	< 0.5	< 0.5	-	-	-	-	-	< 0.5	-	< 0.5	< 0.5	-	-	-	-	-	-	-
PCB 138	T	0.2 µg/L	*Laboratory LOD used*	µg/L	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-	-
PCB 153	T	0.2 µg/L	*Laboratory LOD used*	µg/L	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-	-
PCB 156	T	0.3 µg/L	*Laboratory LOD used*	µg/L	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	-	-
PCB 157	T	0.2 µg/L	*Laboratory LOD used*	µg/L	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-	-
PCB 167	T	0.3 µg/L	*Laboratory LOD used*	µg/L	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	-	-
PCB 169	T	0.2 µg/L	*Laboratory LOD used*	µg/L	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-	-
PCB 180	T	0.2 µg/L	*Laboratory LOD used*	µg/L	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	< 0.2	-	< 0.2	< 0.2	-	-	-	-	-	-	-
PCB 189	T	0.3 µg/L	*Laboratory LOD used*	µg/L	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	-	-
PCB Coelute 28/31	T	0.3 µg/L	*Laboratory LOD used*	ug/L	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	< 0.3	-	< 0.3	< 0.3	-	-	-	-	-	-	-
PCB Coelute 118/123	T	0.6 µg/L	*Laboratory LOD used*	ug/L	< 0.6	-	< 0.6	< 0.6	-	-	-	-	-	< 0.6	-	< 0.6	< 0.6	-	-	-	-	-	-	-
Total 7 PCB	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	-	-	-	-	-	< 1	-	< 1	< 1	-	-	-	-	-	-	-
2,3,6-TBA	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-T	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-D	T	0.3 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-DB	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl-4-Chlorophenoxy Butanoic Acid	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	T	80 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Actril (loxynil)	T	10 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bentazon	T	500 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoxynil	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Clopyralid	T	**0.02 µg/L**	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dicamba	T	**0.02 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorprop	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluroxypyr	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mecoprop	T	18 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Picloram	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silvex	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triclopyr	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dinitrobenzene, p-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
1,3-Dinitrobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Dinitrotoluene, 2,4-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Dinitrotoluene, 2,6-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Nitrobenzene	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
1,2-Dichlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
1,3-Dichlorobenzene	T	**2 µg/L**	*Laboratory LOD used*	µg/L	< 2	-	< 2	< 2	< 2	-	< 2	-	-	< 2	-	< 2	< 2	< 2	-	< 2	-	-	< 2	< 2
1,4-Dichlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Trichlorobenzene	T	0.4 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 2	-	< 2	< 2	< 2	-	-	-	-	< 2	-	< 2	< 2	< 2	-	-	-	-	< 2	< 2
1,2,3-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
1,2,4-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Hexachlorobenzene	T	0.05 µg/l	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
2,3,4,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
2,3,5,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
2,3,5,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
2,4,5-Trichlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
2,4,6-Trichlorophenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.1	-	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 1	-	< 0.1	< 1	< 1
2,4-Dichlorophenol	T	0.42 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.1	-	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 1	-	< 0.1	< 1	< 1
2,4-Dimethylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/L	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.1	-	< 0.1	-	< 0.1	< 0.1	< 0.1	**0.14**	< 1	-	< 0.1	< 1	< 1
2,6-Dichlorophenol	T	0.42 µg/L	*WFD England/Wales. 2015 - Saltwater Standards for 2,4-dichlorophenol*	µg/L	-	-	-	-	-	-	< 0.1	< 0.1	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	-
2,6-Dichlorophenol	T	0.42 µg/L	*WFD England/Wales. 2015 - Saltwater Standards for 2,4-dichlorophenol*	ug/L	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	-	-
2,6-Dimethylphenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 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-Chlorophenol	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
2-methylphenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
2-Nitrophenol	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/4-Methylphenol (m/p-cresol)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	LF\BH01S	LF\BH01S
				Date	20/10/2022	22/11/2022	23/11/2022	13/12/2022	20/03/2023	15/01/2024	16/07/2024	21/10/2024	21/10/2024	20/10/2022	22/11/2022	23/11/2022	13/12/2022	22/03/2023	21/06/2023	16/07/2024	22/10/2024	22/10/2024	13/08/2021	18/10/2021
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70
4-Chloro-3-methylphenol	T	40 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.1	-	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 1	-	< 0.1	< 1	< 1
4-Methylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/L	< 0.1	-	< 0.1	< 0.1	**0.15**	**0.98**	< 0.1	< 0.1	-	< 0.1	-	< 0.1	< 0.1	< 0.1	**0.27**	< 0.1	-	< 0.1	-	-
4-Nitrophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Pentachlorophenol	T	**0.4 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	**1.4**	< 1
Phenol	T	**7.7 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	0.12	-	< 0.1	< 0.1	0.15	6.1	< 1	0.25	-	< 0.1	-	< 0.1	< 0.1	< 0.1	1.8	< 1	-	< 0.1	**7.9**	1.9
Total Monohydric Phenols (S) Corrected	T	**100 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 100	< 100
Dissolved Organic Carbon	D			mg/L	160	-	69	60	62	54	-	63	-	270	-	66	120	87	< 2	-	-	-	-	-
Dissolved Organic Carbon	T			mg/L	-	-	-	-	-	-	53.38	-	-	-	-	-	-	-	-	18.4	-	35.54	-	-
Total Organic Carbon	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68	23
Colour	N			none	-	Clear	-	-	-	-	-	-	Dark Grey	-	Clear	-	-	-	-	-	ery Pale Stra	-	-	-
Density	N			g/cm3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Electrical Conductivity (Lab)	T			µS/cm	-	-	-	-	-	-	2134.91	2160	-	-	-	-	-	-	-	332.77	-	820.81	-	-
Electrical Conductivity (Lab)	T			uS/cm	3120	-	3160	3660	4330	2160	-	-	-	3480	-	2530	2300	1610	1490	-	-	-	-	-
pH	T			pH units	-	-	-	-	-	-	8.77	-	-	-	-	-	-	-	-	7.58	-	9.72	-	-
Solids, Suspended at 105 C	T			mg/L	-	-	-	-	12000	1400	-	270	-	-	-	-	-	< 5	100	-	-	-	-	-
Suspended solids (NEN-EN 872)	T			mg/L	-	-	-	-	-	-	35	-	-	-	-	-	-	-	-	39	-	18	-	-
Alkalinity, Total (as CaCO3)	T			mg/L	-	-	-	-	220	-	122.43	-	-	-	-	-	-	120	130	57.57	-	90	-	-
Ammoniacal Nitrogen as N	T	**21 µg/l**	*Value for un-ionised ammonia, WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**800**	-	**1600**	**2400**	**6600**	**1700**	**1698.3**	**450**	-	**330**	-	**62**	**210**	**100**	**270**	< 15	-	< 15	**62**	**80**
Ammoniacal Nitrogen as NH3	T			mg/L	0.97	-	2	3	8	2.1	2.0622	0.54	-	0.41	-	0.076	0.26	0.12	0.32	< 0.018	-	< 0.018	0.075	0.098
Carbonate	T			mg/L	-	-	-	-	-	-	-	120	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	D			µg/L	-	-	-	-	-	-	439430	-	-	-	-	-	-	-	-	23117	-	86659.4	-	-
Chloride	T			µg/L	270000	-	490000	420000	740000	610000	-	400000	-	130000	-	290000	190000	130000	120000	-	-	-	-	-
Cyanide	D	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	**10**	-	-	-	-	-	-	-	-	**4.4**	-	**9.89**	-	-
Cyanide	T	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**9.9**	-	**15**	< 0.1	**1.3**	**15**	-	-	-	**4**	-	**11**	**18**	**11**	**9.9**	-	-	-	**< 40**	**6.3**
Cyanide (free)	T	**1 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	0.4	-	0.5	< 0.1	0.2	0.8	0.9	**1.4**	-	0.4	-	0.3	**1.2**	**1.4**	0.5	0.3	-	0.24	< 20	0.2
Cyanide, Total Low Level	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	-	-	-	-	-	-	-	**19**	-	-	-	-	-	-	-	-	-	-	-	-
Cyanides-complex	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	-	-	-	-	**1.1**	**14**	-	**18**	-	-	-	-	-	**10**	**9.4**	-	-	**9.65**	-	-
Elemental Sulphur	T			µg/L	-	-	-	-	-	-	-	920	-	-	-	-	-	-	-	-	-	-	-	-
Elemental Sulphur	T			ug/L	-	-	-	-	< 84	-	-	-	-	-	-	-	-	< 84	< 84	-	-	-	-	-
Fluoride	D	**5000 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	838	-	-	-	-	-	-	-	-	344	-	1155	-	-
Fluoride	T	**5000 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 100	-	< 100	< 100	< 100	**47000**	-	**6500**	-	< 100	-	< 100	< 100	< 100	< 100	-	-	-	-	-
Hardness as CaCO3	T			mg/L	-	-	-	-	966	435	-	436	-	-	-	-	-	407	354	-	-	-	772	1050
Ion balance	T			%	-	-	-	-	116	-	99.978	89	-	-	-	-	-	94	90	97.2019	-	107.35	-	-
Nitrate (as N)	T			mg/L	0.14	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.31	-	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	0.37	0.35
Nitrate (as NO3-)	D			µg/L	-	-	-	-	-	-	< 100	-	-	-	-	-	-	-	-	488	-	369.4	-	-
Nitrate (as NO3-)	T			µg/L	619.724	-	< 442.66	< 442.66	< 442.66	< 442.66	-	840	-	< 442.66	-	< 442.66	< 442.66	< 442.66	< 442.66	-	-	-	1637.842	1549.31
Nitrite	T			µg/L	272.6052	-	< 114.954	< 114.954	< 114.954	< 114.954	-	-	-	< 114.954	-	< 114.954	< 114.954	< 114.954	< 114.954	-	-	-	< 114.954	< 114.954
Nitrite (as N)	T			mg/L	0.083	-	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	-	< 0.035	-	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	-	< 0.035	< 0.035	< 0.035
Nitrite (as N)	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ortho Phosphate as P	T			mg/L	-	-	-	-	-	-	0.015	-	-	-	-	-	-	-	-	< 0.01	-	0.0208	-	-
Phosphate (as P)	T			mg/L	< 0.01	-	1.3	0.22	-	-	-	-	-	< 0.01	-	0.06	0.21	-	-	-	-	-	-	-
Phosphorous, Total Orthophosphate (As P)	T			mg/L	-	-	-	-	< 0.01	< 0.01	-	< 0.01	-	-	-	-	-	< 0.01	< 0.01	-	-	-	-	-
Silica as SiO2	T			mg/L	-	-	-	-	6.5	-	28.0841	-	-	-	-	-	-	11	7	8.8395	-	-	-	-
Sulphate As SO4	D			µg/L	-	-	-	-	-	-	172308	-	-	-	-	-	-	-	-	63895	-	-	-	-
Sulphate As SO4	T			µg/L	-	-	-	-	700000	-	-	-	-	-	-	-	-	370000	310000	-	-	-	690000	900000
Sulphide	T			µg/L	-	-	-	-	-	-	511.113	750	-	-	-	-	-	-	-	52.0497	-	798.8351	-	-
Sulphide	T			ug/L	-	-	-	-	73	-	-	-	-	-	-	-	-	5500	23000	-	-	-	-	-
Sulphur as S	T			mg/L	-	-	-	-	350	-	-	130	-	-	-	-	-	230	260	-	-	-	-	-
Sulphur (Free)	T			µg/L	-	-	-	-	-	-	120.46	-	-	-	-	-	-	-	-	< 84	-	< 84	-	-
Thiocyanate	D			µg/L	-	-	-	-	-	-	31.97	-	-	-	-	-	-	-	-	< 20	-	55.79	-	-
Thiocyanate	T			µg/L	< 20	-	83	45	36	26	-	< 20	-	61	-	170	< 20	120	180	-	-	-	100	< 20
Total Hardness	T			mg/L	-	-	-	-	-	-	352.6711	-	-	-	-	-	-	-	-	109.5609	-	233.1048	-	-
Sulphur	T			µg/L	-	-	-	-	-	-	228904.4	-	-	-	-	-	-	-	-	26543.2	-	302820	-	-
Aluminium	D	**15 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	**380**	-	**350**	**330**	**310**	< 10	< 10	**44**	-	**170**	-	**110**	**19**	**94**	**190**	**22.5421**	-	**26.1067**	-	-
Antimony	D			µg/L	-	-	-	-	4.3	14	10.6304	10	-	-	-	-	-	0.94	< 0.17	1.0172	-	1.4588	-	-
Arsenic	D	**25 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	2.9	-	2.8	2.1	2	20	24.7489	17	-	2.4	-	5.3	9.7	8.6	6.7	1.8156	-	3.5592	7	9.7
Barium	D			µg/L	-	-	-	-	200	140	228.0531	270	-	-	-	-	-	49	98	112.9728	-	93.4303	-	-
Beryllium	D			µg/L	< 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
Boron	D	7000 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	59	-	74	82	60	380	431.2607	460	-	96	-	190	290	260	260	158.9173	-	226.6378	220	320
Cadmium	D	**0.2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	**0.23**	-	0.17	0.1	0.05	< 0.03	< 0.03	**0.27**	-	0.13	-	0.09	0.16	0.07	< 0.03	< 0.03	-	< 0.03	0.05	0.03
Calcium	D			µg/L	-	-	-	-	390000	-	133095.6	-	-	-	-	-	-	160000	140000	39665	-	-	-	-
Trivalent Chromium (CrIII)	D			µg/L	2.3	-	2.5	< 1	< 1	< 1	< 1	4.3	-	6.5	-	< 1	< 1	1.5	< 1	< 1	-	< 1	< 1	16
Hexavalent Chromium (CrVI)	T	**0.6 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 7	-	< 7	< 7	< 7	< 7	< 7	< 7	-	< 7	-	< 7	< 7	< 7	< 7	< 7	-	< 7	**50**	< 7
Copper	D	**3.76 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**11**	-	**7.3**	**5.4**	1	< 0.4	< 0.4	3.5	-	**5.2**	-	2.6	< 0.4	0.4	**5.5**	1.5491	-	< 0.4	0.5	0.5
Iron	D	**1000 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	100	-	65	73	16	16	24.2302	98	-	95	-	21	19	13	87	59.5161	-	32.5656	12	30
Lead	D	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	**1.7**	-	1.2	< 0.09	< 0.09	< 0.09	< 0.09	**2.5**	-	< 0.09	-	0.38	< 0.09	0.09	**1.3**	0.5835	-	0.2024	0.14	0.4
Magnesium	D			µg/L	-	-	-	-	240	-	4937.2	-	-	-	-	-	-	590	430	2554	-	-	-	-
Manganese	D			µg/L	11	-	6	17	0.65	5.3	13.4886	56	-	4.2	-	0.55	3.5	0.59	7.8	38.8798	-	19.8473	-	-
Mercury	D	**0.07 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	**0.21**	-	**0.13**	**0.12**	**0.1**	**0.09**	0.0464	**0.07**	-	0.06	-	**0.13**	**0.11**	**0.1**	**0.09**	0.0241	-	**0.124**	**0.23**	**0.15**

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	LFIBH01S	LFIBH01S
				Date	20/10/2022	22/11/2022	23/11/2022	13/12/2022	20/03/2023	15/01/2024	16/07/2024	21/10/2024	21/10/2024	20/10/2022	22/11/2022	23/11/2022	13/12/2022	22/03/2023	21/06/2023	16/07/2024	22/10/2024	22/10/2024	13/08/2021	18/10/2021
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70
Molybdenum	D			µg/L	220	-	210	200	200	67	40.021	30	-	270	-	190	320	220	49	9.5253	-	18.769	-	-
Nickel	D	**8.6 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	3.8	-	4	3.4	0.9	2.5	2.5869	7	-	2.4	-	2.1	1.6	1.5	4.1	1.042	-	2.2938	4.4	1.5
Phosphorus	D	See source document	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	69	-	25	22	-	-	101.1436	100	-	24	-	36	38	-	-	< 18	-	67.4185	-	-
Potassium	D			µg/L	-	-	-	-	81000	-	55925	-	-	-	-	-	-	49000	39000	11260.5	-	-	-	-
Selenium	D			µg/L	11	-	7.4	5.2	2.3	0.67	2.2791	2	-	6.6	-	5.4	5.4	4.8	5.6	1.8314	-	3.9866	15	1.4
Sodium	D			µg/L	-	-	-	-	270000	-	225523.3	-	-	-	-	-	-	130000	130000	17219.7	-	-	-	-
Tin	D	10 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	0.8	-	0.5	< 0.4	< 0.4	< 0.4	< 0.4	0.6	-	< 0.4	-	< 0.4	< 0.4	< 0.4	0.4	< 0.4	-	< 0.4	-	-
Titanium	D			µg/L	-	-	-	-	-	-	< 0.3	0.9	-	-	-	-	-	-	-	0.8016	-	< 0.3	-	-
Titanium	D			ug/L	-	-	-	-	< 0.3	0.3	-	-	-	-	-	-	-	0.3	< 0.3	-	-	-	-	-
Vanadium	D	**100 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	19	-	41	31	22	11	4.3836	8.3	-	11	-	11	6	4.4	4.1	12.4186	-	4.5203	15	3.8
Zinc	D	**6.8 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**36**	-	**14**	**26**	**12**	4.9	5.6925	**36**	-	**22**	-	**8**	3.1	1.9	**34**	**23.5133**	-	**8.72**	1.6	4.9
2-chloronaphthalene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
2-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
3-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
4-bromophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
4-Chlorophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
4-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Aniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Azobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Benzyl Alcohol	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	**2.2**	**2.2**
Benzyl Butyl Phthalate	T	0.75 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
bis(2-Chloroethoxy)methane	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
bis(2-Chloroethyl)ether	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroisopropyl)ether	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Bis(2-Ethylhexyl) Adipate	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Bis(2-ethylhexyl) phthalate	T	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	**5**
Carbazole	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Chloroaniline, p-	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl Phthalate	T	200 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Dimethyl Phthalate	T	800 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Di-n-butyl phthalate	T	8 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Di-n-octyl phthalate	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Diphenylamine	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Hexachlorobutadiene	T	**0.6 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Hexachlorocyclopentadiene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Hexachloroethane	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ISOPROPYLTOLUENE, p-	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Methylnaphthalene, 1-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
Methylnaphthalene, 2-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	-	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1
N-Nitrosodi-n-Propylamine	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	T			µg/L	< 0.01	-	< 0.01	< 0.01	0.02	< 0.01	< 1	< 0.01	-	0.01	-	0.02	0.02	0.04	0.02	< 1	-	< 0.01	0.06	< 1
Acenaphthylene	T			µg/L	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	-	< 0.01	-	< 0.01	< 0.01	0.01	< 0.01	< 1	-	< 0.01	< 0.01	< 1
Anthracene	T	**0.1 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.01	-	< 0.01	< 0.01	0.01	< 0.01	< 1	< 0.01	-	< 0.01	-	< 0.01	< 0.01	0.02	0.01	< 1	-	< 0.01	< 0.01	< 1
Benzo(a)anthracene	T			µg/L	< 0.01	-	< 0.01	< 0.01	0.03	< 0.01	< 1	< 0.01	-	< 0.01	-	< 0.01	< 0.01	0.05	< 0.01	< 1	-	< 0.01	< 0.01	< 1
Benzo(a)pyrene	T	**0.00017 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	**< 1**	< 0.01	-	< 0.01	-	< 0.01	< 0.01	**0.05**	< 0.01	**< 1**	-	< 0.01	< 0.01	< 1
Benzo(b)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.01	-	< 0.01	< 0.01	**0.03**	< 0.01	**< 1**	< 0.01	-	< 0.01	-	< 0.01	< 0.01	**0.08**	< 0.01	**< 1**	-	< 0.01	< 0.01	< 1
Benzo(b+k)fluoranthene	T	**0.017 µg/L**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal for benzo(b)fluoranthene/benzo(k)fluoranthene*	µg/L	< 0.02	-	< 0.02	< 0.02	**0.04**	< 0.02	-	-	-	< 0.02	-	< 0.02	< 0.02	**0.11**	< 0.02	-	-	-	< 0.02	< 0.018
Benzo(g,h,i)perylene	T	**0.00082 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.01	-	< 0.01	< 0.01	**0.01**	< 0.01	**< 1**	< 0.01	-	< 0.01	-	< 0.01	< 0.01	**0.05**	< 0.01	**< 1**	-	< 0.01	< 0.01	< 1
Benzo(g,h,i)perylene + Indeno(1,2,3-c,d)pyrene	T			µg/L	< 0.02	-	< 0.02	< 0.02	0.02	< 0.02	-	-	-	< 0.02	-	< 0.02	< 0.02	0.09	< 0.02	-	-	-	< 0.02	< 0.022
Benzo(k)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	-	< 0.01	-	< 0.01	< 0.01	**0.03**	< 0.01	< 1	-	< 0.01	< 0.01	< 1
Chrysene	T			µg/L	< 0.01	-	< 0.01	< 0.01	0.04	< 0.01	< 1	< 0.01	-	< 0.01	-	< 0.01	< 0.01	0.05	0.01	< 1	-	< 0.01	< 0.01	< 1
Dibenz(a,h)anthracene	T			µg/L	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	-	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 1	-	< 0.01	< 0.01	< 1
Fluoranthene	T	**0.0063 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.01	-	< 0.01	< 0.01	**0.05**	**0.01**	**< 1**	< 0.01	-	**0.04**	-	< 0.01	< 0.01	**0.13**	**0.07**	< 1	-	< 0.01	**0.01**	< 1
Fluorene	T			µg/L	< 0.01	-	< 0.01	< 0.01	0.03	0.01	< 1	< 0.01	-	0.01	-	< 0.01	< 0.01	0.03	0.02	< 1	-	< 0.01	0.02	< 1
Indeno(1,2,3-c,d)pyrene	T	Refer to result for benzo(a)pyrene as indicative of overall PAH risk	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	-	< 0.01	-	< 0.01	< 0.01	0.04	< 0.01	< 1	-	< 0.01	< 0.01	< 1
Naphthalene	T	**2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	0.06	-	0.07	0.07	0.13	0.15	< 1	< 0.05	-	0.05	-	< 0.05	< 0.05	0.15	0.08	< 1	-	< 0.05	0.16	< 1
Phenanthrene	T			µg/L	0.01	-	< 0.01	0.01	0.08	0.02	< 1	1.2	-	0.05	-	< 0.01	0.02	0.08	0.05	< 1	-	0.1077	< 0.01	< 1
Pyrene	T			µg/L	< 0.01	-	< 0.01	< 0.01	0.05	0.01	< 1	< 0.01	-	0.03	-	< 0.01	< 0.01	0.1	0.05	< 1	-	< 0.01	0.01	< 1
Benzo(a)pyrene (surrogate marker for PAH mixture)	T			µg/L	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	-	-	-	< 0.01	-	< 0.01	< 0.01	0.05	< 0.01	-	-	-	< 0.01	< 0.016
PAH (Sum of 4)	T			µg/L	< 0.04	-	< 0.04	< 0.04	0.06	< 0.04	-	-	-	< 0.04	-	< 0.04	< 0.04	0.2	< 0.04	-	-	-	< 0.04	< 0.042
PAH (Sum of 16)	T			µg/L	< 0.2	-	< 0.2	< 0.2	0.49	< 0.2	-	< 0.2	-	< 0.2	-	< 0.2	< 0.2	0.89	0.3	-	-	-	0.26	0.24
Total PAH	T			µg/L	-	-	-	-	-	-	0.5781	-	-	-	-	-	-	-	-	0.4634	-	< 0.2	-	-
1,1,1,2-Tetrachloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
1,1,1,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
1,1,2,2-Tetrachloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	LFłBH01S	LFłBH01S
				Date	20/10/2022	22/11/2022	23/11/2022	13/12/2022	20/03/2023	15/01/2024	16/07/2024	21/10/2024	21/10/2024	20/10/2022	22/11/2022	23/11/2022	13/12/2022	22/03/2023	21/06/2023	16/07/2024	22/10/2024	22/10/2024	13/08/2021	18/10/2021
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70
1,1,2,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
1,1-Dichloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
1,1-Dichloroethane	T	**1 µg/L**	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
1,1-Dichloroethene	T	**1 µg/l**	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
1,1-Dichloroethene	T	1 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
1,1-dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
1,1-dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
1,2,3-trichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
1,2,3-trichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
1,2,4-Trimethylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
1,2,4-Trimethylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
1,2-dibromo-3-chloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
1,2-dibromo-3-chloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
1,2-Dibromoethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
1,2-Dibromoethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
1,2-Dichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	< 2	-	< 2	< 2	< 2	-	-	-	-	< 2	-	< 2	< 2	< 2	-	-	-	-	< 2	< 2
1,2-Dichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
1,2-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
1,3,5-Trimethylbenzene (Mesitylene)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
1,3,5-Trimethylbenzene (Mesitylene)	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
1,3-Dichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
1,3-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
1,3-Dichloropropene	T			µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
2,2-Dichloropropane	T	**2 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 2	-	-	-	-	-	-	-	-	< 2	-	-	-	-
2,2-Dichloropropane	T	2 µg/L	*Laboratory LOD used*	ug/L	< 2	-	< 2	< 2	< 2	-	-	-	-	< 2	-	< 2	< 2	< 2	-	-	-	-	< 2	< 2
2-chlorotoluene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
2-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
4-chlorotoluene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
4-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	< 1	-	-	-	-	-	-	-	< 1	-	< 1	-	-
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 1	-	< 1	< 1	< 1	< 1	-	-	-	< 1	-	< 1	< 1	< 1	< 1	-	-	-	< 1	< 1
Bromobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
Bromobenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
Bromodichloromethane	T	**4 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 4	-	-	-	-	-	-	-	-	< 4	-	-	-	-
Bromodichloromethane	T	4 µg/L	*Laboratory LOD used*	ug/L	< 4	-	< 4	< 4	< 4	-	-	-	-	< 4	-	< 4	< 4	< 4	-	-	-	-	< 4	< 4
Bromoform	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
Bromoform	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
Bromomethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
Bromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 4	-	-	-	-	-	-	-	-	< 4	-	-	-	-
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	ug/L	< 4	-	< 4	< 4	< 4	-	-	-	-	< 4	-	< 4	< 4	< 4	-	-	-	-	< 4	< 4
Chloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
Chloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
Chloroform	T	**2.5 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
Chloroform	T	2.5 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
Chloromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
Chloromethane	T	**1 µg/L**	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
cis-1,2-dichloroethene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
cis-1,2-dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
cis-1,3-Dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
Dibromochloromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
Dibromochloromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
Dibromomethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
Dibromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 27	-	-	-	-	-	-	-	-	< 27	-	-	-	-
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 27	-	< 27	< 27	< 27	-	-	-	-	< 27	-	< 27	< 27	< 27	-	-	-	-	< 27	< 27
Ethylbenzene	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	< 1	< 1	-	-	-	-	-	-	-	< 1	-	< 1	-	-
Ethylbenzene	T	**20 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	-	< 1	< 1	< 1	< 1	-	-	-	**22**	-	< 1	< 1	< 1	< 1	-	-	-	< 1	< 1
Isopropylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
Isopropylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	LFIBH01S	LFIBH01S
				Date	20/10/2022	22/11/2022	23/11/2022	13/12/2022	20/03/2023	15/01/2024	16/07/2024	21/10/2024	21/10/2024	20/10/2022	22/11/2022	23/11/2022	13/12/2022	22/03/2023	21/06/2023	16/07/2024	22/10/2024	22/10/2024	13/08/2021	18/10/2021
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
n-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
n-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
n-Propylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
n-Propylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
sec-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
sec-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
tert-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
tert-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	< 1	< 1	-	-	-	-	-	-	-	< 1	-	< 1	-	-
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	ug/L	3	-	< 1	1	< 1	< 1	-	-	-	7.6	-	< 1	< 1	< 1	< 1	-	-	-	< 1	< 1
trans-1,2-Dichloroethene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
trans-1,2-Dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
trans-1,3-Dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
trans-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
Trichlorofluoromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
Trichlorofluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
m-& p-Xylenes	T	**2 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 2	-	-	-	-	-	-	-	-	< 2	-	-	-	-
m-& p-Xylenes	T	2 µg/L	*Laboratory LOD used*	ug/L	< 2	-	< 2	< 2	< 2	-	-	-	-	< 2	-	< 2	< 2	< 2	-	-	-	-	< 2	< 2
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	-	< 1	< 1	< 1	< 1	-	-	-	< 1	-	< 1	< 1	< 1	< 1	-	-	-	< 1	< 1
o-Xylene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 1	-	-
o-Xylene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1
Sum of Trihalomethanes	T	7 µg/L	*Laboratory LOD used*	µg/L	< 7	-	< 7	< 7	< 7	-	-	-	-	< 7	-	< 7	< 7	< 7	-	-	-	-	< 7	< 7
Sum of Tetrachloroethene + Trichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	< 2	-	< 2	< 2	< 2	-	-	-	-	< 2	-	< 2	< 2	< 2	-	-	-	-	< 2	< 2
Volatile TIC	T			none	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-
TPH >C5-C10	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH >C10-C40	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	210	190
Aliphatics >C5-C6	T			µg/L	< 0.1	-	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	-	130	-	< 0.1	54	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1
Aliphatics >C5-C35	T			µg/L	< 10	-	< 10	< 10	-	-	-	-	-	180	-	< 10	56	-	-	-	-	-	< 10	< 10
Aliphatics >C6-C8	T			µg/L	< 0.1	-	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	-	48	-	< 0.1	1.5	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1
Aliphatics >C8-C10	T			µg/L	< 0.1	-	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	-	4.8	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1
Aliphatics >C10-C12	T			µg/L	< 1	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1
Aliphatics >C10-C44	T			µg/L	-	-	-	-	< 1	-	< 1	< 1	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	-
Aliphatics >C12-C16	T			µg/L	< 1	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1
Aliphatics >C16-C21	T			µg/L	< 1	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1
Aliphatics >C16-C35	T			µg/L	< 2	-	< 2	< 2	< 2	-	-	-	-	< 2	-	< 2	< 2	< 2	< 2	-	-	-	< 2	< 2
Aliphatics >C21-C35	T			µg/L	< 1	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1
Aliphatics >C35-C44	T			µg/L	-	-	-	-	< 1	-	< 1	< 1	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	-
Aromatics >C5-C7	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 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
Aromatics >C5-C35	T			µg/L	< 10	-	< 10	< 10	-	-	-	-	-	43	-	< 10	< 10	-	-	-	-	-	< 10	< 10
Aromatics >C7-C8	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 0.1	-	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	-	7.6	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1
Aromatics >C8-C10	T			µg/L	< 0.1	-	< 0.1	5.4	< 0.1	-	< 0.1	< 0.1	-	35	-	< 0.1	3.5	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1
Aromatics >C10-C12	T			µg/L	< 1	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1
Aromatics >C10-C44	T			µg/L	-	-	-	-	< 1	-	< 1	< 1	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	-
Aromatics >C12-C16	T			µg/L	< 1	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1
Aromatics >C16-C21	T			µg/L	< 1	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1
Aromatics >C21-C35	T			µg/L	< 1	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1
Aromatics >C35-C44	T			µg/L	-	-	-	-	< 1	-	< 1	< 1	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	-
Aliphatics & Aromatics >C5-C35	T			µg/L	< 10	-	< 10	< 10	-	-	-	-	-	220	-	< 10	59	-	-	-	-	-	< 10	< 10
Aliphatics & Aromatics >C10-C44	T			µg/L	-	-	-	-	< 1	-	< 1	< 1	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	-

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

			Location	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	M-BH203	M-BH203	M-BH204	M-BH204	M-BH205	M-BH205	M-BH206S	M-BH206S	M-BH207D
			Date	17/11/2021	13/04/2022	14/04/2022	08/07/2022	23/09/2022	14/12/2022	22/03/2023	22/06/2023	27/09/2023	27/09/2023	18/01/2024	04/11/2024	04/11/2024	05/11/2024	05/11/2024	05/11/2024	05/11/2024	05/11/2024	05/11/2024	05/11/2024	13/11/2024
			Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD CLAY
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOC TICs	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibutyltin	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tributyltin	T	0.0002 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triphenyltin	T	0.008 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 0.5	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
PCB 12	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 52	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 77	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 81	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 101	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 105	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 114	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 126	T	0.5 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	< 0.5	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 138	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 153	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 156	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 157	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 167	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 169	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 180	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 189	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB Coelute 28/31	T	0.3 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB Coelute 118/123	T	0.6 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	< 0.6	< 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total 7 PCB	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,6-TBA	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-T	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-D	T	0.3 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-DB	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl-4-Chlorophenoxy Butanoic Acid	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	T	80 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Actril (loxynil)	T	10 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bentazon	T	500 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoxynil	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Clopyralid	T	**0.02 µg/L**	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dicamba	T	**0.02 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorprop	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluroxypyr	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mecoprop	T	18 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Picloram	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silvex	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triclopyr	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dinitrobenzene, p-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	-	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
1,3-Dinitrobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	-	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Dinitrotoluene, 2,4-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 0.5	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Dinitrotoluene, 2,6-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Nitrobenzene	T			µg/L	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	-	< 2	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	**6**	-	< 1	-	-
1,2-Dichlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	< 1	-	**8**	-	**8**	-	< 1	-	-
1,3-Dichlorobenzene	T	**2 µg/L**	*Laboratory LOD used*	µg/L	< 2	-	< 3	-	-	-	< 2	-	-	-	-	< 2	-	**8**	-	**8**	-	**8**	-	-
1,4-Dichlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	**8**	-	**8**	-	-
Trichlorobenzene	T	0.4 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 2	-	< 4	-	-	-	< 2	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	10	-	-
1,2,4-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	10	-	-
Hexachlorobenzene	T	0.05 µg/l	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 1	-	< 1	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
2,3,4,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	-	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
2,3,5,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
2,3,5,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 0.5	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
2,4,6-Trichlorophenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 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
2,4-Dichlorophenol	T	0.42 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 1	-	< 0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1
2,4-Dimethylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/L	< 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
2,6-Dichlorophenol	T	0.42 µg/L	*WFD England/Wales. 2015 - Saltwater Standards for 2,4-dichlorophenol*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1
2,6-Dichlorophenol	T	0.42 µg/L	*WFD England/Wales. 2015 - Saltwater Standards for 2,4-dichlorophenol*	ug/L	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	-	-	-	-	-	-	-	-	-
2,6-Dimethylphenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	-	-	< 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-Chlorophenol	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	-	< 1	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
2-methylphenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 0.5	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
2-Nitrophenol	T			µg/L	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/4-Methylphenol (m/p-cresol)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	-	-	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	M-BH203	M-BH203	M-BH204	M-BH204	M-BH205	M-BH205	M-BH206S	M-BH206S	M-BH207D
				Date	17/11/2021	13/04/2022	14/04/2022	08/07/2022	23/09/2022	14/12/2022	22/03/2023	22/06/2023	27/09/2023	27/09/2023	18/01/2024	04/11/2024	04/11/2024	05/11/2024	05/11/2024	05/11/2024	05/11/2024	05/11/2024	05/11/2024	13/11/2024
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD CLAY
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	T	40 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	-	< 0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1
4-Methylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/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
4-Nitrophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 10	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Pentachlorophenol	T	**0.4 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 1	-	< 1	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Phenol	T	**7.7 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 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
Total Monohydric Phenols (S) Corrected	T	**100 µg/L**	*Laboratory LOD used*	µg/L	< 100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon	D			mg/L	-	-	19	9.1	17	17	4	20	6.3	-	3.9	4.3	-	8.1	-	45	-	7	-	-
Dissolved Organic Carbon	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.65
Total Organic Carbon	T			mg/L	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colour	N			none	-	ark grey colou	-	-	-	-	-	-	-	daek	-	-	Clear	-	Clear	-	Other Orange	-	Clear	-
Density	N			g/cm3	-	1.000566	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Electrical Conductivity (Lab)	T			µS/cm	-	-	-	-	-	-	-	-	-	-	-	1110	-	1860	-	1030	-	8750	-	15950.56
Electrical Conductivity (Lab)	T			uS/cm	-	-	2650	3370	2960	2770	2820	2760	2790	-	2590	-	-	-	-	-	-	-	-	-
pH	T			pH units	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.18
Solids, Suspended at 105 C	T			mg/L	-	-	-	-	-	-	15	5	22	-	7.5	7	-	7	-	14	-	62	-	-
Suspended solids (NEN-EN 872)	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72
Alkalinity, Total (as CaCO3)	T			mg/L	-	-	-	-	-	-	160	91	110	-	140	-	-	-	-	-	-	-	-	-
Ammoniacal Nitrogen as N	T	**21 µg/l**	*Value for un-ionised ammonia, WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**80**	-	**74**	18	**61**	**400**	**43**	< 15	**46**	-	**64**	**68**	-	**1600**	-	**17000**	-	**1800**	-	**7117.1**
Ammoniacal Nitrogen as NH3	T			mg/L	0.097	-	0.09	0.022	0.074	0.49	0.052	< 0.015	0.056	-	0.078	0.083	-	1.9	-	20	-	2.2	-	8.6422
Carbonate	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	52	-	40	-	140	-	230	-	-
Chloride	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5349851.3
Chloride	T			µg/L	-	-	-	-	370000	250000	250000	230000	260000	-	150000	110000	-	150000	-	160000	-	2000000	-	-
Cyanide	D	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**< 40**
Cyanide	T	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**5.7**	-	**8**	**10**	**7.8**	**9.8**	**10**	**8.1**	**9**	-	**9.3**	-	-	-	-	-	-	-	-	-
Cyanide (free)	T	**1 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	0.3	-	0.3	0.1	< 0.1	0.6	0.9	0.6	0.7	-	0.6	**3.2**	-	**2**	-	**2.9**	-	< 0.1	-	< 20
Cyanide, Total Low Level	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	-	-	-	-	-	-	-	-	-	-	-	**20**	-	**21**	-	**150**	-	**2.2**	-	-
Cyanides-complex	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	-	-	-	-	-	-	**9.1**	**7.5**	**8.3**	-	**8.7**	**17**	-	**19**	-	**150**	-	**2.2**	-	< 40
Elemental Sulphur	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	< 84	-	< 84	-	< 84	-	< 84	-	-
Elemental Sulphur	T			ug/L	-	-	-	-	-	-	650	< 84	< 84	-	< 84	-	-	-	-	-	-	-	-	-
Fluoride	D	**5000 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**250311.4**
Fluoride	T	**5000 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	< 100	< 100	< 100	< 100	< 100	-	< 100	1900	-	750	-	4100	-	**15000**	-	-
Hardness as CaCO3	T			mg/L	991	-	-	-	-	-	955	917	1120	-	1110	281	-	640	-	76	-	471	-	-
Ion balance	T			%	-	-	-	-	-	-	87	105	89	-	99	106	-	98	-	87	-	114	-	-
Nitrate (as N)	T			mg/L	-	-	0.44	< 0.1	< 0.1	< 0.1	< 0.1	0.4	< 0.1	-	0.52	0.34	-	< 0.1	-	< 0.1	-	0.12	-	0.3541
Nitrate (as NO3-)	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as NO3-)	T			µg/L	310	-	1947.704	< 442.66	< 442.66	< 442.66	< 442.66	21000	< 442.66	-	2301.832	710	-	370	-	590	-	-	-	-
Nitrite	T			µg/L	< 100	-	< 114.954	< 114.954	< 114.954	< 114.954	< 114.954	< 114.954	< 114.954	-	< 114.954	-	-	-	-	-	-	-	-	-
Nitrite (as N)	T			mg/L	-	-	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	-	< 0.035	< 0.035	-	< 0.035	-	< 0.035	-	0.13	-	< 0.035
Nitrite (as N)	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ortho Phosphate as P	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0751
Phosphate (as P)	T			mg/L	-	-	-	-	< 0.01	0.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphorous, Total Orthophosphate (As P)	T			mg/L	-	-	-	-	-	-	0.05	< 0.01	0.01	-	< 0.01	0.04	-	0.06	-	3.6	-	0.06	-	-
Silica as SiO2	T			mg/L	-	-	-	-	-	-	10	4.3	3.2	-	12	8.8	-	8.9	-	9.3	-	6	-	6.6592
Sulphate As SO4	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate As SO4	T			µg/L	840000	-	-	-	-	-	780000	1100000	990000	-	1100000	-	-	-	-	-	-	-	-	-
Sulphide	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphide	T			ug/L	-	-	-	-	-	-	270	23	18	-	18	-	-	-	-	-	-	-	-	-
Sulphur as S	T			mg/L	-	-	-	-	-	-	360	410	490	-	700	120	-	250	-	18	-	260	-	-
Sulphur (Free)	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106.6916
Thiocyanate	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 20
Thiocyanate	T			µg/L	37	-	< 20	< 20	< 20	< 20	26	< 20	< 20	-	< 20	< 20	-	< 20	-	15000	-	68	-	-
Total Hardness	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1227.7882
Sulphur	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80650
Aluminium	D	**15 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	< 10	**20**	< 10	< 10	< 10	-	< 10	**40**	-	< 10	-	**310**	-	13	-	**22.9091**
Antimony	D			µg/L	-	-	-	-	-	-	0.21	0.28	0.22	-	0.67	1	-	1.1	-	1.7	-	0.79	-	1.1762
Arsenic	D	**25 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	11	-	**51**	10	15	**50**	16	12	14	-	13	**28**	-	11	-	**51**	-	3.3	-	6.3636
Barium	D			µg/L	-	-	-	-	-	-	100	49	71	-	32	73	-	150	-	140	-	190	-	269.0546
Beryllium	D			µg/L	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	-	< 0.1	-	0.4	-	< 0.1	-	< 0.1
Boron	D	7000 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	350	-	440	530	630	990	580	630	640	-	780	180	-	190	-	400	-	540	-	1262.8831
Cadmium	D	**0.2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.03	-	< 0.03	< 0.03	< 0.03	**0.63**	< 0.03	< 0.03	< 0.03	-	< 0.03	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03
Calcium	D			µg/L	-	-	-	-	-	-	280000	270000	350000	-	330000	-	-	-	-	-	-	-	-	-
Trivalent Chromium (CrIII)	D			µg/L	< 1	-	< 1	1.9	1.1	< 1	1.2	< 1	< 1	-	< 1	< 1	-	< 1	-	5.5	-	< 1	-	3.116
Hexavalent Chromium (CrVI)	T	**0.6 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 7	-	< 7	< 7	< 7	< 7	< 7	< 7	< 7	-	< 7	< 7	-	< 7	-	< 7	-	< 7	-	< 7
Copper	D	**3.76 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 0.4	-	< 0.4	< 0.4	1.2	**9.8**	< 0.4	0.7	< 0.4	-	< 0.4	< 0.4	-	< 0.4	-	0.6	-	< 0.4	-	2.3554
Iron	D	**1000 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	19	-	11	92	170	51	74	9.7	12	-	6.8	17	-	30	-	710	-	660	-	254.83
Lead	D	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.09	-	< 0.09	< 0.09	< 0.09	0.86	< 0.09	< 0.09	< 0.09	-	< 0.09	< 0.09	-	< 0.09	-	**3.8**	-	< 0.09	-	< 0.09
Magnesium	D			µg/L	-	-	-	-	-	-	61000	60000	63000	-	68000	-	-	-	-	-	-	-	-	-
Manganese	D			µg/L	-	-	-	-	330	350	190	260	320	-	150	82	-	150	-	57	-	490	-	1504.9466
Mercury	D	**0.07 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	**0.11**	-	**0.13**	0.03	0.02	0.06	0.01	0.01	0.01	-	< 0.01	**0.1**	-	0.05	-	0.03	-	0.02	-	< 0.01

AECOM

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Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	M-BH203	M-BH203	M-BH204	M-BH204	M-BH205	M-BH205	M-BH206S	M-BH206S	M-BH207D
				Date	17/11/2021	13/04/2022	14/04/2022	08/07/2022	23/09/2022	14/12/2022	22/03/2023	22/06/2023	27/09/2023	27/09/2023	18/01/2024	04/11/2024	04/11/2024	05/11/2024	05/11/2024	05/11/2024	05/11/2024	05/11/2024	05/11/2024	13/11/2024
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD CLAY
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	D			µg/L	-	-	-	-	22	970	22	69	18	-	36	51	-	31	-	34	-	17	-	28.6856
Nickel	D	**8.6 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	0.9	-	2.6	1.6	2.3	2.4	0.6	0.8	0.6	-	0.6	0.7	-	2.1	-	5	-	2.8	-	**38.7725**
Phosphorus	D	See source document	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	26	130	-	-	-	-	-	53	-	71	-	4100	-	68	-	75.7044
Potassium	D			µg/L	-	-	-	-	-	-	80000	76000	75000	-	73000	-	-	-	-	-	-	-	-	-
Selenium	D			µg/L	1.3	-	1.4	0.33	0.78	2.4	1.3	0.48	0.42	-	6.9	1.2	-	0.77	-	1.4	-	7.8	-	3.3959
Sodium	D			µg/L	-	-	-	-	-	-	210000	210000	210000	-	130000	-	-	-	-	-	-	-	-	-
Tin	D	10 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	< 0.4	0.9	< 0.4	< 0.4	< 0.4	-	< 0.4	< 0.4	-	< 0.4	-	< 0.4	-	< 0.4	-	< 0.4
Titanium	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	35	-	0.3	-	1.6649
Titanium	D			ug/L	-	-	-	-	-	-	< 0.3	< 0.3	< 0.3	-	< 0.3	-	-	-	-	-	-	-	-	-
Vanadium	D	**100 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	0.7	-	5.3	< 0.6	< 0.6	3.4	0.8	< 0.6	< 0.6	-	< 0.6	1.4	-	1.2	-	**130**	-	2	-	2.6272
Zinc	D	**6.8 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	2.5	-	**17**	**9.2**	2.9	**15**	5.5	5.6	**33**	-	< 1.3	**16**	-	**69**	-	**93**	-	**84**	-	**72.598**
2-chloronaphthalene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
2-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
3-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
4-bromophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
4-Chlorophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
4-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 0.5	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Aniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	-	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Azobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 0.5	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Benzyl Alcohol	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	-	-	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Benzyl Butyl Phthalate	T	0.75 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 1	-	< 1	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
bis(2-Chloroethoxy)methane	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 0.5	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
bis(2-Chloroethyl)ether	T			µg/L	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroisopropyl)ether	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	-	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Bis(2-Ethylhexyl) Adipate	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	-	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Bis(2-ethylhexyl) phthalate	T	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 1	-	< 5	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Carbazole	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 0.5	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Chloroaniline, p-	T			µg/L	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl Phthalate	T	200 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	-	1	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Dimethyl Phthalate	T	800 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	-	< 1	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Di-n-butyl phthalate	T	8 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	-	< 1.5	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Di-n-octyl phthalate	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	-	< 1	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Diphenylamine	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	-	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Hexachlorobutadiene	T	**0.6 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	**10**	-	-
Hexachlorocyclopentadiene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Hexachloroethane	T			µg/L	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	T			µg/L	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ISOPROPYLTOLUENE, p-	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	< 1	-	**8**	-	< 1	-	**8**	-	-
Methylnaphthalene, 1-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	-	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Methylnaphthalene, 2-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 1	-	-	-	< 1	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
N-Nitrosodi-n-Propylamine	T			µg/L	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	T			µg/L	< 1	-	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01
Acenaphthylene	T			µg/L	< 1	-	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01
Anthracene	T	**0.1 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 1	-	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01
Benzo(a)anthracene	T			µg/L	< 1	-	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01
Benzo(a)pyrene	T	**0.00017 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 1	-	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01
Benzo(b)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 1	-	< 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
Benzo(b+k)fluoranthene	T	**0.017 µg/L**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal for benzo(b)fluoranthene/benzo(k)fluoranthene*	µg/L	< 0.018	-	< 1	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	T	**0.00082 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 1	-	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01
Benzo(g,h,i)perylene + Indeno(1,2,3-c,d)pyrene	T			µg/L	< 0.022	-	< 1.5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 1	-	< 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
Chrysene	T			µg/L	< 1	-	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01
Dibenz(a,h)anthracene	T			µg/L	< 1	-	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01
Fluoranthene	T	**0.0063 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 1	-	< 0.5	< 0.01	< 0.01	**0.01**	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01
Fluorene	T			µg/L	< 1	-	< 0.5	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01
Indeno(1,2,3-c,d)pyrene	T	Refer to result for benzo(a)pyrene as indicative of overall PAH risk	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 1	-	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01
Naphthalene	T	**2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 1	-	< 2	0.18	0.14	0.27	0.12	< 0.05	0.18	-	0.05	0.05	-	0.11	-	< 0.05	-	< 0.05	-	1.8426
Phenanthrene	T			µg/L	< 1	-	< 0.5	0.01	0.02	0.03	0.02	< 0.01	0.01	-	0.01	0.02	-	< 0.01	-	< 0.01	-	< 0.01	-	1.8791
Pyrene	T			µg/L	< 1	-	< 0.5	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01
Benzo(a)pyrene (surrogate marker for PAH mixture)	T			µg/L	< 0.016	-	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	-	-	-	-	-	-	-	-
PAH (Sum of 4)	T			µg/L	< 0.042	-	< 1.5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	-	< 0.04	-	-	-	-	-	-	-	-	-
PAH (Sum of 16)	T			µg/L	0.215	-	0.21	< 0.2	< 0.2	0.34	< 0.2	< 0.2	< 0.2	-	< 0.2	< 0.2	-	< 0.2	-	< 0.2	-	< 0.2	-	-
Total PAH	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.2
1,1,1,2-Tetrachloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**6**	-	< 1	-	**6**	-	-
1,1,1,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 2	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	4	-	< 1	-	4	-	-
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	-	< 2	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**7**	-	**7**	-	**8**	-	-

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

			Location	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	M-BH203	M-BH203	M-BH204	M-BH204	M-BH205	M-BH205	M-BH206S	M-BH206S	M-BH207D
			Date	17/11/2021	13/04/2022	14/04/2022	08/07/2022	23/09/2022	14/12/2022	22/03/2023	22/06/2023	27/09/2023	27/09/2023	18/01/2024	04/11/2024	04/11/2024	05/11/2024	05/11/2024	05/11/2024	05/11/2024	05/11/2024	05/11/2024	05/11/2024	13/11/2024
			Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD CLAY
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 4	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	6	-	6	-	6	-	-
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	-	< 2	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**3**	-	**3**	-	< 1	-	-
1,1-Dichloroethane	T	**1 µg/L**	*Laboratory LOD used*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	T	**1 µg/l**	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
1,1-Dichloroethene	T	1 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**4**	-	**4**	-	**4**	-	-
1,1-dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-trichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**7**	-	< 1	-	< 1	-	-
1,2,3-trichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**8**	-	**8**	-	**8**	-	-
1,2,4-Trimethylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-dibromo-3-chloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	< 1	-	**9**	-	< 1	-	-
1,2-dibromo-3-chloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 2	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
1,2-Dibromoethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 2	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	< 1	-	4	-	< 1	-	-
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 1	-	< 2	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	< 2	-	< 6	-	-	-	< 2	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**5**	-	**5**	-	< 1	-	-
1,2-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 2	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene (Mesitylene)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**8**	-	**8**	-	**8**	-	-
1,3,5-Trimethylbenzene (Mesitylene)	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
1,3-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 2	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	T	**2 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 2	-	**3**	-	< 2	-	< 2	-	-
2,2-Dichloropropane	T	2 µg/L	*Laboratory LOD used*	ug/L	< 2	-	< 1	-	-	-	< 2	-	-	-	-	-	-	-	-	-	-	-	-	-
2-chlorotoluene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	< 1	-	**8**	-	**8**	-	-
2-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
4-chlorotoluene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	< 1	-	**8**	-	**8**	-	-
4-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	4	-	4	-	4	-	< 1
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	-	-	-	-	-	-	-	-	-
Bromobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**7**	-	**7**	-	**7**	-	-
Bromobenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 2	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	T	**4 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 4	-	**5**	-	< 4	-	**5**	-	-
Bromodichloromethane	T	4 µg/L	*Laboratory LOD used*	ug/L	< 4	-	< 2	-	-	-	< 4	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**7**	-	**7**	-	**7**	-	-
Bromoform	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 2	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**1**	-	< 1	-	< 1	-	-
Bromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	4	-	4	-	4	-	-
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 1	-	< 2	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 4	-	< 4	-	< 4	-	< 4	-	-
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	ug/L	< 4	-	< 2	-	-	-	< 4	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**2**	-	< 1	-	**1**	-	-
Chloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	T	**2.5 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	1	-	**4**	-	**4**	-	**4**	-	-
Chloroform	T	2.5 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 1	-	< 2	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**1**	-	**1**	-	**1**	-	-
Chloromethane	T	**1 µg/L**	*Laboratory LOD used*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-dichloroethene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**3**	-	< 1	-	< 1	-	-
cis-1,2-dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**5**	-	< 1	-	< 1	-	-
cis-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 2	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**6**	-	< 1	-	**6**	-	-
Dibromochloromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 2	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**5**	-	**5**	-	**5**	-	-
Dibromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 2	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 27	-	< 27	-	< 27	-	< 27	-	-
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 27	-	< 3	-	-	-	< 27	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	7	-	7	-	7	-	< 1
Ethylbenzene	T	**20 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	-	-	-	-	-	-	-	-	-
Isopropylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	< 1	-	< 1	-	**7**	-	-
Isopropylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	3	-	< 1	-	3	-	-

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	LF\BH01S	M-BH203	M-BH203	M-BH204	M-BH204	M-BH205	M-BH205	M-BH206S	M-BH206S	M-BH207D
				Date	17/11/2021	13/04/2022	14/04/2022	08/07/2022	23/09/2022	14/12/2022	22/03/2023	22/06/2023	27/09/2023	27/09/2023	18/01/2024	04/11/2024	04/11/2024	05/11/2024	05/11/2024	05/11/2024	05/11/2024	05/11/2024	05/11/2024	13/11/2024
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD CLAY
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 1	-	< 0.1	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**8**	-	**8**	-	< 1	-	-
n-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Propylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	< 1	-	**8**	-	**8**	-	-
n-Propylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
sec-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**8**	-	**8**	-	**8**	-	-
sec-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	-	< 2	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
tert-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	< 1	-	**8**	-	**8**	-	-
tert-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	6	-	< 1	-	< 1	-	-
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	5	-	5	-	5	-	< 1
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	ug/L	< 1	-	< 5	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**3**	-	< 1	-	**3**	-	-
trans-1,2-Dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**6**	-	**6**	-	< 1	-	-
trans-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 2	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**2**	-	**2**	-	**2**	-	-
Trichlorofluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 3	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	1	-	1	-	1	-	-
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 1	-	< 0.1	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
m-& p-Xylenes	T	**2 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 2	-	**7**	-	**7**	-	**7**	-	-
m-& p-Xylenes	T	2 µg/L	*Laboratory LOD used*	ug/L	< 2	-	< 2	-	-	-	< 2	-	-	-	-	-	-	-	-	-	-	-	-	-
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	< 3	-	-	-	-	-	-	-	-	< 1	-	< 1	-	< 1	-	< 1	-	-
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	-	-	-	-	-	-	-	-	-
o-Xylene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 1	-	**7**	-	**7**	-	**7**	-	< 1
o-Xylene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	< 1	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of Trihalomethanes	T	7 µg/L	*Laboratory LOD used*	µg/L	< 7	-	< 8	-	-	-	< 7	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of Tetrachloroethene + Trichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	< 2	-	< 6	-	-	-	< 2	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile TIC	T			none	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH >C5-C10	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	373.65	-	-	-	-	-	38.96	-	-
TPH >C10-C40	T			µg/L	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatics >C5-C6	T			µg/L	< 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
Aliphatics >C5-C35	T			µg/L	< 10	-	150	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatics >C6-C8	T			µg/L	< 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
Aliphatics >C8-C10	T			µg/L	< 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
Aliphatics >C10-C12	T			µg/L	< 1	-	7.2	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	-	< 1	-	< 1
Aliphatics >C10-C44	T			µg/L	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	-	< 1	-	< 1
Aliphatics >C12-C16	T			µg/L	< 1	-	20	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	-	< 1	-	< 1
Aliphatics >C16-C21	T			µg/L	< 1	-	34	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	-	< 1	-	< 1
Aliphatics >C16-C35	T			µg/L	< 2	-	125	< 2	< 2	< 2	< 2	< 2	< 2	-	< 2	-	-	-	-	-	-	-	-	-
Aliphatics >C21-C35	T			µg/L	< 1	-	91	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	-	< 1	-	< 1
Aliphatics >C35-C44	T			µg/L	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	-	< 1	-	< 1
Aromatics >C5-C7	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 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
Aromatics >C5-C35	T			µg/L	< 10	-	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatics >C7-C8	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 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
Aromatics >C8-C10	T			µg/L	< 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
Aromatics >C10-C12	T			µg/L	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	-	< 1	-	< 1
Aromatics >C10-C44	T			µg/L	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	-	< 1	-	< 1
Aromatics >C12-C16	T			µg/L	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	-	< 1	-	< 1
Aromatics >C16-C21	T			µg/L	< 1	-	< 1	< 1	4.5	< 1	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	-	< 1	-	< 1
Aromatics >C21-C35	T			µg/L	< 1	-	< 1	3.1	4.9	< 1	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	-	< 1	-	< 1
Aromatics >C35-C44	T			µg/L	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	-	< 1	-	< 1
Aliphatics & Aromatics >C5-C35	T			µg/L	< 10	-	150	< 10	10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatics & Aromatics >C10-C44	T			µg/L	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	< 1	-	< 1	-	< 1

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

			Location	M-BH208D	M-BH210	M-BH210	M-BH212	M-BH212	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S
			Date	13/11/2024	06/11/2024	06/11/2024	12/11/2024	13/11/2024	12/08/2021	13/10/2021	17/11/2021	13/04/2022	13/04/2022	06/07/2022	21/09/2022	12/08/2021	13/10/2021	16/11/2021	13/04/2022	13/04/2022	06/07/2022	21/09/2022	13/12/2022
			Geologic Unit	TFD CLAY	TFD SAND	TFD SAND	TFD CLAY	TFD CLAY	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																			
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	77	-	-	-	-	-	-	79	-	-	-	-	-	-
SVOC TICs	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibutyltin	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tributyltin	T	0.0002 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triphenyltin	T	0.008 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 0.5	-	-	-	< 1	< 1	< 1	< 0.5	-	-	-	-
PCB 12	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	< 1	-	-	-	< 1	-	-	-	-	-	-	< 1	< 1
PCB 52	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	< 0.2	-	-	-	< 0.2	-	-	-	-	-	-	< 0.2	< 0.2
PCB 77	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	< 0.3	-	-	-	< 0.3	-	-	-	-	-	-	< 0.3	< 0.3
PCB 81	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	< 0.2	-	-	-	< 0.2	-	-	-	-	-	-	< 0.2	< 0.2
PCB 101	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	< 0.3	-	-	-	< 0.3	-	-	-	-	-	-	< 0.3	< 0.3
PCB 105	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	< 0.2	-	-	-	< 0.2	-	-	-	-	-	-	< 0.2	< 0.2
PCB 114	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	< 0.3	-	-	-	< 0.3	-	-	-	-	-	-	< 0.3	< 0.3
PCB 126	T	0.5 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	< 0.5	-	-	-	< 0.5	-	-	-	-	-	-	< 0.5	< 0.5
PCB 138	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	< 0.2	-	-	-	< 0.2	-	-	-	-	-	-	< 0.2	< 0.2
PCB 153	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	< 0.2	-	-	-	< 0.2	-	-	-	-	-	-	< 0.2	< 0.2
PCB 156	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	< 0.3	-	-	-	< 0.3	-	-	-	-	-	-	< 0.3	< 0.3
PCB 157	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	< 0.2	-	-	-	< 0.2	-	-	-	-	-	-	< 0.2	< 0.2
PCB 167	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	< 0.3	-	-	-	< 0.3	-	-	-	-	-	-	< 0.3	< 0.3
PCB 169	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	< 0.2	-	-	-	< 0.2	-	-	-	-	-	-	< 0.2	< 0.2
PCB 180	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	< 0.2	-	-	-	< 0.2	-	-	-	-	-	-	< 0.2	< 0.2
PCB 189	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	< 0.3	-	-	-	< 0.3	-	-	-	-	-	-	< 0.3	< 0.3
PCB Coelute 28/31	T	0.3 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	< 0.3	-	-	-	< 0.3	-	-	-	-	-	-	< 0.3	< 0.3
PCB Coelute 118/123	T	0.6 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	< 0.6	-	-	-	< 0.6	-	-	-	-	-	-	< 0.6	< 0.6
Total 7 PCB	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	< 1	-	-	-	< 1	-	-	-	-	-	-	< 1	< 1
2,3,6-TBA	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-
2,4,5-T	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-
2,4-D	T	0.3 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-
2,4-DB	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-
2-Methyl-4-Chlorophenoxy Butanoic Acid	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	T	80 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-
Actril (loxynil)	T	10 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-
Bentazon	T	500 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-
Bromoxynil	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-
Clopyralid	T	**0.02 µg/L**	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	**0.02**	-	-	-	-	-	-	-	-
Dicamba	T	**0.02 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	**0.02**	-	-	-	-	-	-	-	-
Dichlorprop	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-
Fluroxypyr	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-
Mecoprop	T	18 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-
Picloram	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-
Silvex	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-
Triclopyr	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-
Dinitrobenzene, p-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1	< 1	-	-	-	-	-
1,3-Dinitrobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1	< 1	-	-	-	-	-
Dinitrotoluene, 2,4-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 0.5	-	-	-	< 1	< 1	< 1	< 0.5	-	-	-	-
Dinitrotoluene, 2,6-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	-
Nitrobenzene	T			µg/L	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	< 1	-	-	-	-
Chlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	< 1	< 1	< 1	< 2	-	-	-	< 1	< 1	< 1	< 2	-	-	-	-
1,2-Dichlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	< 1	< 1	< 1	< 3	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-
1,3-Dichlorobenzene	T	**2 µg/L**	*Laboratory LOD used*	µg/L	< 2	< 2	-	-	-	< 2	< 2	< 2	< 3	-	-	-	< 2	< 2	< 2	< 3	-	-	-	-
1,4-Dichlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	< 1	< 1	< 1	< 3	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-
Trichlorobenzene	T	0.4 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	< 2	< 2	< 2	< 4	-	-	-	< 2	< 2	< 2	< 4	-	-	-	-
1,2,3-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 1	< 1	-	-	-	< 1	< 1	< 1	< 3	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-
1,2,4-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 1	< 1	-	-	-	< 1	< 1	< 1	< 3	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-
Hexachlorobenzene	T	0.05 µg/l	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	-
2,3,4,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1	< 1	-	-	-	-	-
2,3,5,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,5,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1	< 1	-	-	-	-	-
2,4,5-Trichlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 0.5	-	-	-	< 1	< 1	< 1	< 0.5	-	-	-	-
2,4,6-Trichlorophenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 0.1	< 0.1	-	-	< 0.1	< 1	< 1	< 1	< 1	-	< 0.1	< 0.1	< 1	< 1	< 1	< 1	-	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	T	0.42 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 0.1	< 0.1	-	-	< 0.1	< 1	< 1	< 1	< 0.5	-	< 0.1	< 0.1	< 1	< 1	< 1	< 0.5	-	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/L	< 0.1	< 0.1	-	-	< 0.1	< 1	< 1	< 1	< 1	-	< 0.1	< 0.1	< 1	< 1	< 1	< 1	-	< 0.1	< 0.1	< 0.1
2,6-Dichlorophenol	T	0.42 µg/L	*WFD England/Wales. 2015 - Saltwater Standards for 2,4-dichlorophenol*	µg/L	< 0.1	< 0.1	-	-	< 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dichlorophenol	T	0.42 µg/L	*WFD England/Wales. 2015 - Saltwater Standards for 2,4-dichlorophenol*	ug/L	-	-	-	-	-	-	-	-	< 0.1	-	< 0.1	< 0.1	-	-	-	< 0.1	-	< 0.1	< 0.1	< 0.1
2,6-Dimethylphenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 0.1	< 0.1	-	-	< 0.1	-	-	-	< 0.1	-	< 0.1	< 0.1	-	-	-	< 0.1	-	< 0.1	< 0.1	< 0.1
2-Chlorophenol	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	-
2-methylphenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 0.5	-	-	-	< 1	< 1	< 1	< 0.5	-	-	-	-
2-Nitrophenol	T			µg/L	-	-	-	-	-	-	-	-	< 0.5	-	-	-	-	-	-	< 0.5	-	-	-	-
3/4-Methylphenol (m/p-cresol)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1	< 1	-	-	-	-	-

AECOM

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Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	M-BH208D	M-BH210	M-BH210	M-BH212	M-BH212	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S
				Date	13/11/2024	06/11/2024	06/11/2024	12/11/2024	13/11/2024	12/08/2021	13/10/2021	17/11/2021	13/04/2022	13/04/2022	06/07/2022	21/09/2022	12/08/2021	13/10/2021	16/11/2021	13/04/2022	13/04/2022	06/07/2022	21/09/2022	13/12/2022
				Geologic Unit	TFD CLAY	TFD SAND	TFD SAND	TFD CLAY	TFD CLAY	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	77	-	-	-	-	-	-	79	-	-	-	-	-	-
4-Chloro-3-methylphenol	T	40 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 0.1	< 0.1	-	-	< 0.1	< 1	< 1	< 1	< 0.5	-	< 0.1	< 0.1	< 1	< 1	< 1	< 0.5	-	< 0.1	< 0.1	< 0.1
4-Methylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/L	< 0.1	< 0.1	-	-	< 0.1	-	-	-	< 1	-	< 0.1	< 0.1	-	-	-	< 1	-	< 0.1	< 0.1	< 0.1
4-Nitrophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 10	-	-	-	< 1	< 1	< 1	< 10	-	-	-	-
Pentachlorophenol	T	**0.4 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	< 0.02	< 1	< 1	< 1	< 1	-	-	-	-
Phenol	T	**7.7 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 0.1	< 0.1	-	-	< 0.1	3	< 1	< 1	< 1	-	< 0.1	< 0.1	< 1	< 1	< 1	< 1	-	< 0.1	< 0.1	< 0.1
Total Monohydric Phenols (S) Corrected	T	**100 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	< 100	< 100	< 100	-	-	-	-	< 100	< 100	< 100	-	-	-	-	-
Dissolved Organic Carbon	D			mg/L	-	3.6	-	-	-	-	-	-	3.2	-	4.7	6.1	-	-	-	3.9	-	5	9.6	5.5
Dissolved Organic Carbon	T			mg/L	12.5	-	-	-	3.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	T			mg/L	-	-	-	-	-	43	8.1	6	-	-	-	-	15	5.9	4.6	-	-	-	-	-
Colour	N			none	-	-	Clear	Clear	-	-	-	-	-	grey	-	-	-	-	-	-	black	-	-	-
Density	N			g/cm3	-	-	-	-	-	-	-	-	-	1.001812	-	-	-	-	-	-	1.000826	-	-	-
Electrical Conductivity (Lab)	T			µS/cm	1764.88	5550	-	-	2044.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Electrical Conductivity (Lab)	T			uS/cm	-	-	-	-	-	-	-	-	2340	-	2420	2660	-	-	-	2710	-	2750	2840	2630
pH	T			pH units	11.49	-	-	-	7.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Solids, Suspended at 105 C	T			mg/L	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Suspended solids (NEN-EN 872)	T			mg/L	28120	-	-	-	458	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ammoniacal Nitrogen as N	T	**21 µg/l**	*Value for un-ionised ammonia, WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**4727**	**10000**	-	-	**2511**	**190**	< 15	**90**	**35**	-	< 15	**150**	15	**91**	**100**	**220**	-	**79**	**150**	**150**
Ammoniacal Nitrogen as NH3	T			mg/L	5.7399	12	-	-	3.0491	0.23	< 0.015	0.11	0.042	-	0.017	0.19	0.019	0.11	0.12	0.27	-	0.095	0.18	0.18
Carbonate	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	D			µg/L	232807.5	-	-	-	318530	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	T			µg/L	-	1300000	-	-	-	-	-	-	-	-	-	180000	-	-	-	-	-	-	67000	67000
Cyanide	D	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**95.09**	-	-	-	**< 40**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	T	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	**< 40**	**9.8**	**8.4**	**11**	-	**8.2**	**11**	**< 40**	**9.5**	**7.8**	**9.2**	-	**7.6**	**16**	**16**
Cyanide (free)	T	**1 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	**< 20**	0.3	-	-	**< 20**	< 20	0.3	0.4	**1**	-	**34**	**1.3**	< 20	**1**	**2.5**	**1**	-	**2.4**	**1.2**	**1.2**
Cyanide, Total Low Level	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	-	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanides-complex	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	**80.48**	**2.7**	-	-	< 40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Elemental Sulphur	T			µg/L	-	< 84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Elemental Sulphur	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	D	**5000 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	2095	-	-	-	579	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	T	**5000 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	**55000**	-	-	-	-	-	-	-	-	-	< 100	-	-	-	-	-	-	< 100	< 100
Hardness as CaCO3	T			mg/L	-	912	-	-	-	806	876	945	-	-	-	-	1380	1280	1160	-	-	-	-	-
Ion balance	T			%	93.6442	99	-	-	111.0637	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	T			mg/L	0.4415	< 0.1	-	-	0.3287	0.2	-	-	< 0.1	-	< 0.1	< 0.1	0.27	< 0.1	-	0.23	-	0.31	< 0.1	1.3
Nitrate (as NO3-)	D			µg/L	1393	-	-	-	410	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as NO3-)	T			µg/L	-	-	-	-	-	885.32	< 100	340	< 442.66	-	< 442.66	< 442.66	1195.182	< 442.66	< 100	1018.118	-	1372.246	< 442.66	5754.58
Nitrite	T			µg/L	-	-	-	-	-	< 114.954	11000	< 100	< 114.954	-	< 114.954	< 114.954	< 114.954	< 114.954	14000	< 114.954	-	< 114.954	< 114.954	177.3576
Nitrite (as N)	T			mg/L	< 0.035	< 0.035	-	-	< 0.035	< 0.035	-	-	< 0.035	-	< 0.035	< 0.035	< 0.035	< 0.035	-	< 0.035	-	< 0.035	< 0.035	0.054
Nitrite (as N)	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ortho Phosphate as P	T			mg/L	0.0392	-	-	-	0.0221	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphate (as P)	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	< 0.01	0.13
Phosphorous, Total Orthophosphate (As P)	T			mg/L	-	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silica as SiO2	T			mg/L	9.8458	6.9	-	-	10.6285	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate As SO4	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate As SO4	T			µg/L	-	-	-	-	-	920000	860000	840000	-	-	-	-	1000000	1400000	1500000	-	-	-	-	-
Sulphide	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphide	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphur as S	T			mg/L	-	330	-	-	-	310	-	-	-	-	-	-	380	-	-	-	-	-	-	-
Sulphur (Free)	T			µg/L	< 84	-	-	-	493.5981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thiocyanate	D			µg/L	21.18	-	-	-	< 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thiocyanate	T			µg/L	-	< 20	-	-	-	< 20	23	< 20	< 20	-	< 20	< 20	< 20	< 20	< 20	< 20	-	< 20	< 20	< 20
Total Hardness	T			mg/L	203.0293	-	-	-	337.152	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphur	T			µg/L	47390	-	-	-	86620	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium	D	**15 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	**138.7848**	**69**	-	-	**67.6978**	-	-	-	-	-	-	12	-	-	-	-	-	-	< 10	< 10
Antimony	D			µg/L	0.8883	3.6	-	-	1.5035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	D	**25 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	9.3345	4.2	-	-	6.7564	4.1	4	4.2	5.2	-	16	20	2.6	4.6	4	4.6	-	2	2	3
Barium	D			µg/L	116.5807	250	-	-	254.6947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	D			µg/L	< 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
Boron	D	7000 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	167.3843	280	-	-	505.8765	390	490	450	570	-	540	570	590	610	550	660	-	680	780	1100
Cadmium	D	**0.2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.03	**0.38**	-	-	< 0.03	< 0.03	< 0.03	< 0.03	0.06	-	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	< 0.03	0.03
Calcium	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trivalent Chromium (CrIII)	D			µg/L	2.0361	6.2	-	-	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1
Hexavalent Chromium (CrVI)	T	**0.6 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 7	< 7	-	-	< 7	< 7	< 7	< 7	< 7	-	< 7	< 7	< 7	**9.2**	< 7	< 7	-	< 7	< 7	< 7
Copper	D	**3.76 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	3.0533	**4.9**	-	-	1.1328	< 0.4	< 0.4	< 0.4	0.6	-	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	-	< 0.4	< 0.4	< 0.4
Iron	D	**1000 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	90.7265	350	-	-	79.7314	14	120	86	16	-	30	< 5.5	870	**2400**	**1600**	11	-	16	< 5.5	15
Lead	D	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.09	**3.4**	-	-	< 0.09	< 0.09	< 0.09	< 0.09	0.51	-	0.2	0.24	< 0.09	0.15	< 0.09	< 0.09	-	0.24	< 0.09	< 0.09
Magnesium	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	D			µg/L	5.1026	360	-	-	2086.3318	-	-	-	-	-	-	180	-	-	-	-	-	-	2800	2000
Mercury	D	**0.07 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	**0.2452**	0.05	-	-	0.0114	**0.07**	**0.07**	**0.07**	0.02	-	0.02	0.02	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	0.01	< 0.01

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	M-BH208D	M-BH210	M-BH210	M-BH212	M-BH212	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S
				Date	13/11/2024	06/11/2024	06/11/2024	12/11/2024	13/11/2024	12/08/2021	13/10/2021	17/11/2021	13/04/2022	13/04/2022	06/07/2022	21/09/2022	12/08/2021	13/10/2021	16/11/2021	13/04/2022	13/04/2022	06/07/2022	21/09/2022	13/12/2022
				Geologic Unit	TFD CLAY	TFD SAND	TFD SAND	TFD CLAY	TFD CLAY	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	77	-	-	-	-	-	-	79	-	-	-	-	-	-
Molybdenum	D			µg/L	40.7334	35	-	-	48.5249	-	-	-	-	-	-	67	-	-	-	-	-	-	67	79
Nickel	D	**8.6 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	5.3975	6.4	-	-	**19.7253**	1	< 0.5	< 0.5	1.4	-	2.2	< 0.5	0.6	0.6	0.7	2.8	-	2.1	1.3	3.9
Phosphorus	D	See source document	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	138.793	98	-	-	80.5043	-	-	-	-	-	-	36	-	-	-	-	-	-	27	29
Potassium	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	D			µg/L	5.811	3.8	-	-	8.221	4.7	1.5	1.1	3.6	-	1.6	0.7	0.29	0.33	0.49	2.2	-	3.4	4.6	12
Sodium	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin	D	10 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	1.7095	0.7	-	-	< 0.4	-	-	-	-	-	-	< 0.4	-	-	-	-	-	-	< 0.4	< 0.4
Titanium	D			µg/L	< 0.3	1	-	-	3.5394	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium	D			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	D	**100 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	54.4305	6.3	-	-	4.3695	14	4	2	5.2	-	3.1	2.3	< 0.6	< 0.6	< 0.6	< 0.6	-	< 0.6	< 0.6	< 0.6
Zinc	D	**6.8 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**17.551**	**83**	-	-	**72.8217**	1.7	< 1.3	3	**28**	-	5.3	**7.1**	2.8	< 1.3	2.6	**41**	-	**15**	**31**	**47**
2-chloronaphthalene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	-
2-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	-
3-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	-
4-bromophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	-
4-Chlorophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	-
4-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 0.5	-	-	-	< 1	< 1	< 1	< 0.5	-	-	-	-
Aniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1	< 1	-	-	-	-	-
Azobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 0.5	-	-	-	< 1	< 1	< 1	< 0.5	-	-	-	-
Benzyl Alcohol	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1	< 1	-	-	-	-	-
Benzyl Butyl Phthalate	T	0.75 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	-
bis(2-Chloroethoxy)methane	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 0.5	-	-	-	< 1	< 1	< 1	< 0.5	-	-	-	-
bis(2-Chloroethyl)ether	T			µg/L	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	< 1	-	-	-	-
bis(2-Chloroisopropyl)ether	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1	< 1	-	-	-	-	-
Bis(2-Ethylhexyl) Adipate	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1	< 1	-	-	-	-	-
Bis(2-ethylhexyl) phthalate	T	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 5	-	-	-	< 1	< 1	< 1	< 5	-	-	-	-
Carbazole	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 0.5	-	-	-	< 1	< 1	< 1	< 0.5	-	-	-	-
Chloroaniline, p-	T			µg/L	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	< 1	-	-	-	-
Diethyl Phthalate	T	200 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	-
Dimethyl Phthalate	T	800 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	-
Di-n-butyl phthalate	T	8 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 1.5	-	-	-	< 1	< 1	< 1	< 1.5	-	-	-	-
Di-n-octyl phthalate	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	-
Diphenylamine	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1	< 1	-	-	-	-	-
Hexachlorobutadiene	T	**0.6 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 1	< 1	-	-	-	< 1	< 1	< 1	< 3	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-
Hexachlorocyclopentadiene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	-
Hexachloroethane	T			µg/L	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	< 1	-	-	-	-
Isophorone	T			µg/L	-	-	-	-	-	-	-	-	< 0.5	-	-	-	-	-	-	< 0.5	-	-	-	-
ISOPROPYLTOLUENE, p-	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	< 1	< 1	< 1	< 3	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-
Methylnaphthalene, 1-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	< 1	< 1	-	-	-	-	-
Methylnaphthalene, 2-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	-
N-Nitrosodi-n-Propylamine	T			µg/L	-	-	-	-	-	-	-	-	< 0.5	-	-	-	-	-	-	< 0.5	-	-	-	-
Acenaphthene	T			µg/L	0.2837	< 0.01	-	-	3.9801	0.01	< 1	< 1	< 1	-	< 0.01	0.03	0.04	< 1	< 1	< 1	-	< 0.01	0.21	< 0.01
Acenaphthylene	T			µg/L	0.6317	< 0.01	-	-	1.9505	< 0.01	< 1	< 1	< 0.5	-	< 0.01	< 0.01	< 0.01	< 1	< 1	< 0.5	-	< 0.01	0.1	< 0.01
Anthracene	T	**0.1 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	0.0846	< 0.01	-	-	**26.4964**	< 0.01	< 1	< 1	< 0.5	-	< 0.01	< 0.01	< 0.01	< 1	< 1	< 0.5	-	< 0.01	0.09	< 0.01
Benzo(a)anthracene	T			µg/L	< 0.01	< 0.01	-	-	60.5359	< 0.01	< 1	< 1	< 0.5	-	< 0.01	< 0.01	< 0.01	< 1	< 1	< 0.5	-	< 0.01	0.02	< 0.01
Benzo(a)pyrene	T	**0.00017 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.01	< 0.01	-	-	**51.7874**	< 0.01	< 1	< 1	< 1	-	< 0.01	< 0.01	< 0.01	< 1	< 1	< 1	-	< 0.01	**0.01**	< 0.01
Benzo(b)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.01	< 0.01	-	-	**59.2211**	< 0.01	< 1	< 1	< 0.01	-	< 0.01	< 0.01	< 0.01	< 1	< 1	< 0.01	-	< 0.01	**0.16**	< 0.01
Benzo(b+k)fluoranthene	T	**0.017 µg/L**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal for benzo(b)fluoranthene/benzo(k)fluoranthene*	µg/L	-	-	-	-	-	< 0.02	< 0.018	< 0.018	< 1	-	< 0.02	< 0.02	< 0.02	< 0.018	< 0.018	< 1	-	< 0.02	**0.2**	< 0.02
Benzo(g,h,i)perylene	T	**0.00082 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.01	< 0.01	-	-	**29.9877**	< 0.01	< 1	< 1	< 0.5	-	< 0.01	< 0.01	< 0.01	< 1	< 1	< 0.5	-	< 0.01	**0.02**	< 0.01
Benzo(g,h,i)perylene + Indeno(1,2,3-c,d)pyrene	T			µg/L	-	-	-	-	-	< 0.02	< 0.022	< 0.002	< 1.5	-	< 0.02	< 0.02	< 0.02	< 0.002	< 0.022	< 1.5	-	< 0.02	0.04	< 0.02
Benzo(k)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.01	< 0.01	-	-	**22.7192**	< 0.01	< 1	< 1	< 0.01	-	< 0.01	< 0.01	< 0.01	< 1	< 1	< 0.01	-	< 0.01	**0.04**	< 0.01
Chrysene	T			µg/L	< 0.01	< 0.01	-	-	71.3766	< 0.01	< 1	< 1	< 0.5	-	< 0.01	< 0.01	< 0.01	< 1	< 1	< 0.5	-	< 0.01	0.04	< 0.01
Dibenz(a,h)anthracene	T			µg/L	< 0.01	< 0.01	-	-	6.9534	< 0.01	< 1	< 1	< 0.5	-	< 0.01	< 0.01	< 0.01	< 1	< 1	< 0.5	-	< 0.01	0.03	< 0.01
Fluoranthene	T	**0.0063 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	**0.2005**	< 0.01	-	-	**179.747**	< 0.01	< 1	< 1	< 0.5	-	< 0.01	< 0.01	< 0.01	< 1	< 1	< 0.5	-	< 0.01	**0.05**	< 0.01
Fluorene	T			µg/L	0.1793	< 0.01	-	-	4.5841	0.01	< 1	< 1	< 0.5	-	< 0.01	< 0.01	0.01	< 1	< 1	< 0.5	-	< 0.01	0.19	< 0.01
Indeno(1,2,3-c,d)pyrene	T	Refer to result for benzo(a)pyrene as indicative of overall PAH risk	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 0.01	< 0.01	-	-	35.0654	< 0.01	< 1	< 1	< 1	-	< 0.01	< 0.01	< 0.01	< 1	< 1	< 1	-	< 0.01	0.02	< 0.01
Naphthalene	T	**2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	**3.0783**	< 0.05	-	-	**4.2571**	0.09	< 1	< 1	< 2	-	0.05	0.83	0.22	< 1	< 1	< 2	-	0.15	0.18	< 0.05
Phenanthrene	T			µg/L	1.6999	0.02	-	-	95.5565	< 0.01	< 1	< 1	< 0.5	-	< 0.01	0.02	< 0.01	< 1	< 1	< 0.5	-	0.02	0.19	< 0.01
Pyrene	T			µg/L	0.1814	0.01	-	-	139.95	< 0.01	< 1	< 1	< 0.5	-	< 0.01	< 0.01	< 0.01	< 1	< 1	< 0.5	-	< 0.01	0.06	< 0.01
Benzo(a)pyrene (surrogate marker for PAH mixture)	T			µg/L	-	-	-	-	-	< 0.01	< 0.016	< 0.001	< 1	-	< 0.01	< 0.01	< 0.01	< 0.001	< 0.016	< 1	-	< 0.01	0.01	< 0.01
PAH (Sum of 4)	T			µg/L	-	-	-	-	-	< 0.04	< 0.042	< 0.004	< 1.5	-	< 0.04	< 0.04	< 0.04	< 0.004	< 0.042	< 1.5	-	< 0.04	0.24	< 0.04
PAH (Sum of 16)	T			µg/L	-	< 0.2	-	-	-	< 0.2	< 0.195	0.06	< 0.2	-	< 0.2	0.88	0.28	0.281	< 0.195	< 0.2	-	< 0.2	1.4	< 0.2
Total PAH	T			µg/L	5.0774	-	-	-	794.1682	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-	< 1	< 1	< 1	< 2	-	-	-	-
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-	< 1	< 1	< 1	< 2	-	-	-	-
1,1,2,2-Tetrachloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	M-BH208D	M-BH210	M-BH210	M-BH212	M-BH212	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S
				Date	13/11/2024	06/11/2024	06/11/2024	12/11/2024	13/11/2024	12/08/2021	13/10/2021	17/11/2021	13/04/2022	13/04/2022	06/07/2022	21/09/2022	12/08/2021	13/10/2021	16/11/2021	13/04/2022	13/04/2022	06/07/2022	21/09/2022	13/12/2022
				Geologic Unit	TFD CLAY	TFD SAND	TFD SAND	TFD CLAY	TFD CLAY	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	77	-	-	-	-	-	-	79	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 4	-	-	-	-	< 1	< 1	< 1	< 4	-	-	-
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-
1,1-Dichloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	T	**1 µg/L**	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-
1,1-Dichloroethene	T	**1 µg/l**	*PNEC (EU REACH) - Coastal*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	T	1 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-
1,1-dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-
1,2,3-trichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-trichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-
1,2,4-Trimethylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-
1,2-dibromo-3-chloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-dibromo-3-chloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-
1,2-Dibromoethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-
1,2-Dichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	< 2	< 2	< 2	< 6	-	-	-	< 2	< 2	< 2	< 6	-	-	-	-
1,2-Dichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-
1,3,5-Trimethylbenzene (Mesitylene)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene (Mesitylene)	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-
1,3-Dichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-
1,3-Dichloropropene	T			µg/L	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	T	**2 µg/L**	*Laboratory LOD used*	µg/L	< 2	< 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	T	2 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 2	< 2	< 2	< 1	-	-	-	< 2	< 2	< 2	< 1	-	-	-	-
2-chlorotoluene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-
4-chlorotoluene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 1	< 1	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1
Bromobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-
Bromodichloromethane	T	**4 µg/L**	*Laboratory LOD used*	µg/L	< 4	< 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	T	4 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 4	< 4	< 4	< 2	-	-	-	< 4	< 4	< 4	< 2	-	-	-	-
Bromoform	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-
Bromomethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 1	-	-	-	-	< 1	< 1	< 1	< 1	-	-	-
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-	< 1	< 1	< 1	< 2	-	-	-	-
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	µg/L	< 4	< 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 4	< 4	< 4	< 2	-	-	-	< 4	< 4	< 4	< 2	-	-	-	-
Chloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-
Chloroform	T	**2.5 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	**4.0012**	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	T	2.5 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-	< 1	< 1	< 1	< 2	-	-	-	-
Chloromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	T	**1 µg/L**	*Laboratory LOD used*	ug/L	-	-	-	-	-	**2**	< 1	< 1	< 3	-	-	-	**2**	< 1	< 1	< 3	-	-	-	-
cis-1,2-dichloroethene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-
cis-1,3-Dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-
Dibromochloromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-
Dibromomethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 27	< 27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	-	-	-	-	< 27	< 27	< 27	< 3	-	-	-	< 27	< 27	< 27	< 3	-	-	-	-
Ethylbenzene	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	T	**20 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1
Isopropylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

			Location	M-BH208D	M-BH210	M-BH210	M-BH212	M-BH212	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH03S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S
			Date	13/11/2024	06/11/2024	06/11/2024	12/11/2024	13/11/2024	12/08/2021	13/10/2021	17/11/2021	13/04/2022	13/04/2022	06/07/2022	21/09/2022	12/08/2021	13/10/2021	16/11/2021	13/04/2022	13/04/2022	06/07/2022	21/09/2022	13/12/2022
			Geologic Unit	TFD CLAY	TFD SAND	TFD SAND	TFD CLAY	TFD CLAY	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																			
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	77	-	-	-	-	-	79	-	-	-	-	-	-
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 0.1	-	-	-	< 1	< 1	< 1	< 0.1	-	-	-	-
n-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-
n-Propylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Propylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-
sec-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
sec-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-	< 1	< 1	< 1	< 2	-	-	-	-
tert-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
tert-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 1	< 1	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 5	-	< 1	< 1	< 1	< 1	< 1	< 5	-	< 1	< 1	< 1
trans-1,2-Dichloroethene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-
trans-1,3-Dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 2	-	-	-	< 1	< 1	< 1	< 2	-	-	-	-
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-
Trichlorofluoromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 3	-	-	-	< 1	< 1	< 1	< 3	-	-	-	-
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	µg/L	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 0.1	-	-	-	< 1	< 1	< 1	< 0.1	-	-	-	-
m-& p-Xylenes	T	**2 µg/L**	*Laboratory LOD used*	µg/L	< 2	< 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m-& p-Xylenes	T	2 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 2	< 2	< 2	< 2	-	-	-	< 2	< 2	< 2	< 2	-	-	-	-
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 1	-	-	-	-	-	-	< 3	-	-	-	-	-	-	< 3	-	-	-	-
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1
o-Xylene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	< 1	-	-	-	-
Sum of Trihalomethanes	T	7 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	< 7	< 7	< 7	< 8	-	-	-	< 7	< 7	< 7	< 8	-	-	-	-
Sum of Tetrachloroethene + Trichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	< 2	< 2	< 2	< 6	-	-	-	< 2	< 2	< 2	< 6	-	-	-	-
Volatile TIC	T			none	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH >C5-C10	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH >C10-C40	T			µg/L	-	-	-	-	-	170	130	140	-	-	-	-	< 10	< 10	64	-	-	-	-	-
Aliphatics >C5-C6	T			µg/L	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	6.5	< 0.1	< 0.1	< 0.1	< 0.1	-	3	< 0.1	< 0.1
Aliphatics >C5-C35	T			µg/L	-	-	-	-	-	< 10	< 10	< 10	< 10	-	< 10	< 10	30	< 10	< 10	< 10	-	< 10	150	< 10
Aliphatics >C6-C8	T			µg/L	< 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
Aliphatics >C8-C10	T			µg/L	< 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
Aliphatics >C10-C12	T			µg/L	< 1	< 1	-	-	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	14	< 1	< 1	< 1	-	< 1	< 1	< 1
Aliphatics >C10-C44	T			µg/L	< 1	< 1	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatics >C12-C16	T			µg/L	< 1	< 1	-	-	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	5.4	< 1	< 1	< 1	-	< 1	< 1	< 1
Aliphatics >C16-C21	T			µg/L	< 1	< 1	-	-	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	8.2	< 1	< 1	< 1	-	< 1	3.1	< 1
Aliphatics >C16-C35	T			µg/L	-	-	-	-	-	< 2	< 2	< 2	< 2	-	< 2	< 2	9.7	< 2	< 2	< 2	-	< 2	153.1	< 2
Aliphatics >C21-C35	T			µg/L	< 1	< 1	-	-	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	1.5	< 1	< 1	< 1	-	< 1	150	< 1
Aliphatics >C35-C44	T			µg/L	< 1	< 1	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatics >C5-C7	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 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
Aromatics >C5-C35	T			µg/L	-	-	-	-	-	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10
Aromatics >C7-C8	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 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
Aromatics >C8-C10	T			µg/L	< 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	0.8	< 0.1
Aromatics >C10-C12	T			µg/L	< 1	< 1	-	-	1.5278	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1
Aromatics >C10-C44	T			µg/L	< 1	< 1	-	-	127.8051	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatics >C12-C16	T			µg/L	< 1	< 1	-	-	10.6611	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1
Aromatics >C16-C21	T			µg/L	< 1	< 1	-	-	27.8573	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1
Aromatics >C21-C35	T			µg/L	< 1	< 1	-	-	67.9489	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1
Aromatics >C35-C44	T			µg/L	< 1	< 1	-	-	19.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatics & Aromatics >C5-C35	T			µg/L	-	-	-	-	-	< 10	< 10	< 10	< 10	-	< 10	< 10	30	< 10	< 10	< 10	-	< 10	150	< 10
Aliphatics & Aromatics >C10-C44	T			µg/L	< 1	< 1	-	-	127.8051	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

			Location	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH07D	MS\BH07D	MS\BH07D	MS\BH07D
			Date	14/12/2022	21/03/2023	22/06/2023	26/09/2023	26/09/2023	16/01/2024	16/07/2024	22/10/2024	22/10/2024	12/08/2021	12/10/2021	15/11/2021	13/04/2022	13/04/2022	05/07/2022	20/09/2022	12/08/2021	12/10/2021	15/11/2021	12/04/2022
			Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																			
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	79	80	-	-	-	-	-	76	80	-
SVOC TICs	T			µg/L	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibutyltin	T			µg/L	-	-	-	-	-	-	< 1	-	< 1	-	-	-	-	-	-	-	-	-	-	-
Tributyltin	T	0.0002 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	-	< 1	-	-	-	-	-	-	-	-	-	-	-
Triphenyltin	T	0.008 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	< 1	-	< 1	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 0.5	-	-	-	< 1	< 1	-	< 0.5
PCB 12	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	< 1	-	-	-
PCB 52	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.2	< 0.2	-	-	-
PCB 77	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.3	< 0.3	-	-	-
PCB 81	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.2	< 0.2	-	-	-
PCB 101	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.3	< 0.3	-	-	-
PCB 105	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.2	< 0.2	-	-	-
PCB 114	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.3	< 0.3	-	-	-
PCB 126	T	0.5 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.5	< 0.5	-	-	-
PCB 138	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.2	< 0.2	-	-	-
PCB 153	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.2	< 0.2	-	-	-
PCB 156	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.3	< 0.3	-	-	-
PCB 157	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.2	< 0.2	-	-	-
PCB 167	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.3	< 0.3	-	-	-
PCB 169	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.2	< 0.2	-	-	-
PCB 180	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.2	< 0.2	-	-	-
PCB 189	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.3	< 0.3	-	-	-
PCB Coelute 28/31	T	0.3 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.3	< 0.3	-	-	-
PCB Coelute 118/123	T	0.6 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.6	< 0.6	-	-	-
Total 7 PCB	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	< 1	-	-	-
2,3,6-TBA	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-
2,4,5-T	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-
2,4-D	T	0.3 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-
2,4-DB	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-
2-Methyl-4-Chlorophenoxy Butanoic Acid	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	T	80 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-
Actril (loxynil)	T	10 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-
Bentazon	T	500 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-
Bromoxynil	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-
Clopyralid	T	**0.02 µg/L**	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-
Dicamba	T	**0.02 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-
Dichlorprop	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-
Fluroxypyr	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-
Mecoprop	T	18 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-
Picloram	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-
Silvex	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-
Triclopyr	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-
Dinitrobenzene, p-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	-	-
1,3-Dinitrobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	-	-
Dinitrotoluene, 2,4-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 0.5	-	-	-	< 1	< 1	-	< 0.5
Dinitrotoluene, 2,6-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	-	< 1
Nitrobenzene	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	< 1
Chlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	-	< 2
1,2-Dichlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
1,3-Dichlorobenzene	T	**2 µg/L**	*Laboratory LOD used*	µg/L	-	< 2	-	-	-	-	< 2	-	-	< 2	< 2	-	< 3	-	-	-	< 2	< 2	-	< 3
1,4-Dichlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
Trichlorobenzene	T	0.4 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 2	-	-	-	-	-	-	-	< 2	< 2	-	< 4	-	-	-	< 2	< 2	-	< 4
1,2,3-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
1,2,4-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
Hexachlorobenzene	T	0.05 µg/l	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	-	< 1
2,3,4,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	-	-
2,3,5,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,5,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	-	-
2,4,5-Trichlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 0.5	-	-	-	< 1	< 1	-	< 0.5
2,4,6-Trichlorophenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	-	< 0.1	< 0.1	< 0.1	-	< 0.1	< 1	-	< 0.1	< 1	< 1	-	< 1	-	< 0.1	< 0.1	< 1	< 1	-	< 1
2,4-Dichlorophenol	T	0.42 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	< 0.1	< 0.1	< 0.1	-	< 0.1	< 1	-	< 0.1	< 1	< 1	-	< 0.5	-	< 0.1	< 0.1	< 1	< 1	-	< 0.5
2,4-Dimethylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/L	-	< 0.1	< 0.1	< 0.1	-	< 0.1	< 1	-	< 0.1	< 1	< 1	-	1	-	< 0.1	< 0.1	< 1	< 1	-	< 1
2,6-Dichlorophenol	T	0.42 µg/L	*WFD England/Wales. 2015 - Saltwater Standards for 2,4-dichlorophenol*	µg/L	-	-	-	-	-	-	< 0.1	-	< 0.1	-	-	-	-	-	-	-	-	-	-	-
2,6-Dichlorophenol	T	0.42 µg/L	*WFD England/Wales. 2015 - Saltwater Standards for 2,4-dichlorophenol*	ug/L	-	< 0.1	< 0.1	< 0.1	-	< 0.1	-	-	-	-	-	-	< 0.1	-	< 0.1	< 0.1	-	-	-	< 0.1
2,6-Dimethylphenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	-	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	-	< 0.1	-	-	-	< 0.1	-	< 0.1	< 0.1	-	-	-	< 0.1
2-Chlorophenol	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	-	< 1
2-methylphenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 0.5	-	-	-	< 1	< 1	-	< 0.5
2-Nitrophenol	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	< 0.5	-	-	-	-	-	-	< 0.5
3/4-Methylphenol (m/p-cresol)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	-	-

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH07D	MS\BH07D	MS\BH07D	MS\BH07D
				Date	14/12/2022	21/03/2023	22/06/2023	26/09/2023	26/09/2023	16/01/2024	16/07/2024	22/10/2024	22/10/2024	12/08/2021	12/10/2021	15/11/2021	13/04/2022	13/04/2022	05/07/2022	20/09/2022	12/08/2021	12/10/2021	15/11/2021	12/04/2022
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	79	80	-	-	-	-	-	76	80	-
4-Chloro-3-methylphenol	T	40 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 0.1	< 0.1	< 0.1	-	< 0.1	< 1	-	< 0.1	< 1	< 1	-	< 0.5	-	< 0.1	< 0.1	< 1	< 1	-	< 0.5
4-Methylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/L	-	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	-	< 0.1	-	-	-	< 1	-	< 0.1	< 0.1	-	-	-	< 1
4-Nitrophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 10	-	-	-	< 1	< 1	-	< 10
Pentachlorophenol	T	**0.4 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 1	-	-	< 0.02	< 1	< 1	-	< 1
Phenol	T	**7.7 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	< 0.1	< 0.1	< 0.1	-	< 0.1	< 1	-	< 0.1	3.7	< 1	-	< 1	-	< 0.1	< 0.1	2	< 1	-	< 1
Total Monohydric Phenols (S) Corrected	T	**100 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	< 100	< 100	< 100	-	-	-	-	< 100	< 100	< 100	-
Dissolved Organic Carbon	D			mg/L	-	4.2	4.4	5.2	-	5.4	-	-	-	-	-	-	7.4	-	8.9	9	-	-	-	4.3
Dissolved Organic Carbon	T			mg/L	-	-	-	-	-	-	5.43	-	5.36	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	T			mg/L	-	-	-	-	-	-	-	-	-	12	8.5	8	-	-	-	-	13	8.4	5.5	-
Colour	N			none	ecoming lighte	-	-	-	clear	-	-	Clear	-	-	-	-	-	-	-	-	-	-	-	-
Density	N			g/cm3	-	-	-	-	-	-	-	-	-	-	-	-	-	0.999668	-	-	-	-	-	-
Electrical Conductivity (Lab)	T			µS/cm	-	-	-	-	-	-	2718.32	-	7276.6	-	-	-	-	-	-	-	-	-	-	-
Electrical Conductivity (Lab)	T			uS/cm	-	2830	2700	3030	-	2680	-	-	-	-	-	-	868	-	905	837	-	-	-	1980
pH	T			pH units	-	-	-	-	-	-	7.37	-	7.86	-	-	-	-	-	-	-	-	-	-	-
Solids, Suspended at 105 C	T			mg/L	-	12	9	36	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Suspended solids (NEN-EN 872)	T			mg/L	-	-	-	-	-	-	7	-	< 5	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	T			mg/L	-	120	120	130	-	120	124	-	230	-	-	-	-	-	-	-	-	-	-	-
Ammoniacal Nitrogen as N	T	**21 µg/l**	*Value for un-ionised ammonia, WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	< 15	**110**	**95**	-	**470**	**222.1**	-	**163.2**	**10000**	**10000**	**19000**	**18000**	-	**14000**	**14000**	**1200**	**910**	**1500**	**890**
Ammoniacal Nitrogen as NH3	T			mg/L	-	< 0.015	0.13	0.12	-	0.57	0.2697	-	0.1981	13	12	23	22	-	18	17	1.5	1.1	1.8	1.1
Carbonate	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	D			µg/L	-	-	-	-	-	-	121792	-	1494539.8	-	-	-	-	-	-	-	-	-	-	-
Chloride	T			µg/L	-	120000	67000	220000	-	120000	-	-	-	-	-	-	-	-	-	150000	-	-	-	-
Cyanide	D	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	**4.4**	-	**10.94**	-	-	-	-	-	-	-	-	-	-	-
Cyanide	T	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	**7.1**	**5.9**	**12**	-	**7.4**	-	-	-	**42**	**20**	**8.9**	**14**	-	**12**	**19**	**< 40**	**13**	**4.9**	**13**
Cyanide (free)	T	**1 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	**3**	**1.5**	**1**	-	**1.4**	**1.3**	-	**2.03**	< 20	**1.7**	0.4	**2**	-	**1.6**	**1.6**	**< 20**	0.7	0.1	**1.9**
Cyanide, Total Low Level	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanides-complex	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	-	**4.2**	**4.5**	**11**	-	**6**	-	-	**8.91**	-	-	-	-	-	-	-	-	-	-	-
Elemental Sulphur	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Elemental Sulphur	T			ug/L	-	< 84	< 84	< 84	-	< 84	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	D	**5000 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	3027	-	< 100	-	-	-	-	-	-	-	-	-	-	-
Fluoride	T	**5000 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 100	< 100	< 100	-	< 100	-	-	-	-	-	-	-	-	-	590	-	-	-	-
Hardness as CaCO3	T			mg/L	-	1470	1320	1440	-	1380	-	-	-	45.7	19.5	11.1	-	-	-	-	697	647	769	-
Ion balance	T			%	-	113	113	120	-	82	94.9222	-	115.0583	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	T			mg/L	-	0.71	0.94	0.75	-	< 0.1	< 0.1	-	9.1646	-	-	-	0.15	-	6.1	< 0.0226	0.28	1.5	-	< 0.1
Nitrate (as NO3-)	D			µg/L	-	-	-	-	-	-	< 100	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as NO3-)	T			µg/L	-	3142.886	41000	3319.95	-	< 442.66	-	-	-	400	< 100	150	663.99	-	27002.26	< 100.04116	1239.448	6639.9	< 100	< 442.66
Nitrite	T			µg/L	-	< 114.954	< 114.954	< 114.954	-	< 114.954	-	-	-	450	5600	3100	< 114.954	-	< 98.532	< 98.532	< 114.954	15000	< 100	< 114.954
Nitrite (as N)	T			mg/L	-	< 0.035	< 0.035	< 0.035	-	< 0.035	< 0.035	-	0.137	-	-	-	< 0.035	-	< 0.03	< 0.03	< 0.035	-	-	< 0.035
Nitrite (as N)	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ortho Phosphate as P	T			mg/L	-	-	-	-	-	-	< 0.01	-	0.0655	-	-	-	-	-	-	-	-	-	-	-
Phosphate (as P)	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.27	-	-	-	-
Phosphorous, Total Orthophosphate (As P)	T			mg/L	-	< 0.01	< 0.01	< 0.01	-	< 0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silica as SiO2	T			mg/L	-	14	5.2	5.7	-	13	14.9853	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate As SO4	D			µg/L	-	-	-	-	-	-	1222453	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate As SO4	T			µg/L	-	1600000	1500000	1700000	-	1100000	-	-	-	96000	85000	100000	-	-	-	-	840000	820000	85000	-
Sulphide	T			µg/L	-	-	-	-	-	-	66.8254	-	23.5129	-	-	-	-	-	-	-	-	-	-	-
Sulphide	T			ug/L	-	38	25	12	-	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphur as S	T			mg/L	-	600	560	630	-	77	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphur (Free)	T			µg/L	-	-	-	-	-	-	< 84	-	< 84	-	-	-	-	-	-	-	-	-	-	-
Thiocyanate	D			µg/L	-	-	-	-	-	-	< 20	-	< 20	-	-	-	-	-	-	-	-	-	-	-
Thiocyanate	T			µg/L	-	< 20	< 20	< 20	-	< 20	-	-	-	2300	4400	4300	< 20	-	3800	< 20	< 20	< 20	54	< 20
Total Hardness	T			mg/L	-	-	-	-	-	-	1352.1097	-	754.5389	-	-	-	-	-	-	-	-	-	-	-
Sulphur	T			µg/L	-	-	-	-	-	-	684246.1	-	436870	-	-	-	-	-	-	-	-	-	-	-
Aluminium	D	**15 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 10	< 10	< 10	-	< 10	< 10	-	< 10	-	-	-	-	-	-	**120**	-	-	-	-
Antimony	D			µg/L	-	0.31	0.43	0.35	-	0.2	0.2351	-	1.121	-	-	-	-	-	-	-	-	-	-	-
Arsenic	D	**25 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	2.5	1.8	1.7	-	2.7	2.5644	-	3.2158	4.4	7.4	6.8	15	-	11	12	6.4	8.7	5.8	2.7
Barium	D			µg/L	-	23	31	99	-	57	89.3364	-	170.7844	-	-	-	-	-	-	-	-	-	-	-
Beryllium	D			µg/L	-	< 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
Boron	D	7000 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	740	790	780	-	660	677.3736	-	479.8741	280	200	140	180	-	150	180	380	370	410	460
Cadmium	D	**0.2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 0.03	< 0.03	< 0.03	-	< 0.03	< 0.03	-	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Calcium	D			µg/L	-	440000	370000	440000	-	420000	407648.4	-	-	-	-	-	-	-	-	-	-	-	-	-
Trivalent Chromium (CrIII)	D			µg/L	-	1.6	< 1	< 1	-	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	2.4	< 1	< 1
Hexavalent Chromium (CrVI)	T	**0.6 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	< 7	< 7	< 7	-	< 7	< 7	-	< 7	< 7	< 7	< 7	< 7	-	< 7	< 7	< 7	< 7	< 7	< 7
Copper	D	**3.76 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	< 0.4	0.9	0.9	-	< 0.4	< 0.4	-	2.7247	< 0.4	< 0.4	< 0.4	0.9	-	1.9	0.5	< 0.4	1	< 0.4	< 0.4
Iron	D	**1000 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	230	8.4	13	-	82	158.8204	-	31.7902	44	95	99	200	-	230	110	26	38	340	14
Lead	D	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 0.09	< 0.09	< 0.09	-	< 0.09	< 0.09	-	< 0.09	0.11	0.1	0.12	0.32	-	**1.5**	0.32	0.1	0.56	< 0.09	< 0.09
Magnesium	D			µg/L	-	92000	94000	84000	-	82000	81158.7	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	D			µg/L	-	2800	2600	2400	-	2500	2489.4671	-	1261.2483	-	-	-	-	-	-	6.2	-	-	-	-
Mercury	D	**0.07 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	-	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-	0.0313	0.02	0.03	0.02	0.02	-	0.02	0.04	0.03	0.06	< 0.01	< 0.01

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH07D	MS\BH07D	MS\BH07D	MS\BH07D
				Date	14/12/2022	21/03/2023	22/06/2023	26/09/2023	26/09/2023	16/01/2024	16/07/2024	22/10/2024	22/10/2024	12/08/2021	12/10/2021	15/11/2021	13/04/2022	13/04/2022	05/07/2022	20/09/2022	12/08/2021	12/10/2021	15/11/2021	12/04/2022
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	79	80	-	-	-	-	-	76	80	-
Molybdenum	D			µg/L	-	49	60	62	-	52	53.6115	-	59.514	-	-	-	-	-	-	32	-	-	-	-
Nickel	D	**8.6 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	1.4	1.3	1.5	-	1.2	1.3293	-	2.9537	2.9	4.3	3.7	6.8	-	4.6	3.9	0.7	1.3	0.5	0.7
Phosphorus	D	See source document	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 18	-	71.3786	-	-	-	-	-	-	410	-	-	-	-
Potassium	D			µg/L	-	55000	62000	62000	-	60000	67987.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	D			µg/L	-	4	5.8	7	-	0.8	1.7177	-	49.279	0.69	0.49	0.31	0.37	-	0.45	0.37	8.2	2.3	< 0.25	0.28
Sodium	D			µg/L	-	63000	81000	140000	-	140000	97307.4	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin	D	10 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 0.4	< 0.4	< 0.4	-	0.5	< 0.4	-	< 0.4	-	-	-	-	-	-	< 0.4	-	-	-	-
Titanium	D			µg/L	-	-	-	-	-	-	< 0.3	-	< 0.3	-	-	-	-	-	-	-	-	-	-	-
Titanium	D			ug/L	-	< 0.3	< 0.3	< 0.3	-	< 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	D	**100 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 0.6	< 0.6	< 0.6	-	< 0.6	< 0.6	-	1.8511	1.3	1	0.9	7	-	1.6	7.6	2.3	1.5	< 0.6	< 0.6
Zinc	D	**6.8 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	3.4	6.5	**32**	-	**35**	**26.9688**	-	**96.4936**	4.8	< 1.3	1.3	**12**	-	**6.9**	**8.4**	5.1	**11**	< 1.3	**36**
2-chloronaphthalene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	-	< 1
2-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	-	< 1
3-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	-	< 1
4-bromophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	-	< 1
4-Chlorophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	-	< 1
4-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 0.5	-	-	-	< 1	< 1	-	< 0.5
Aniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	-	-
Azobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 0.5	-	-	-	< 1	< 1	-	< 0.5
Benzyl Alcohol	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	**1.6**	< 1	-	-	-	-	-	< 1	< 1	-	-
Benzyl Butyl Phthalate	T	0.75 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	-	< 1
bis(2-Chloroethoxy)methane	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 0.5	-	-	-	< 1	< 1	-	< 0.5
bis(2-Chloroethyl)ether	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	< 1
bis(2-Chloroisopropyl)ether	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	-	-
Bis(2-Ethylhexyl) Adipate	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	-	-
Bis(2-ethylhexyl) phthalate	T	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 15	-	-	-	< 1	**13**	-	< 5
Carbazole	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 0.5	-	-	-	< 1	< 1	-	< 0.5
Chloroaniline, p-	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	< 1
Diethyl Phthalate	T	200 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	-	< 1
Dimethyl Phthalate	T	800 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	-	< 1
Di-n-butyl phthalate	T	8 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 1.5	-	-	-	< 1	< 1	-	< 1.5
Di-n-octyl phthalate	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	-	< 1
Diphenylamine	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	-	-
Hexachlorobutadiene	T	**0.6 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
Hexachlorocyclopentadiene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	-	< 1
Hexachloroethane	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	< 1
Isophorone	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	< 0.5	-	-	-	-	-	-	< 0.5
ISOPROPYLTOLUENE, p-	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
Methylnaphthalene, 1-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	-	-
Methylnaphthalene, 2-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	-	< 1
N-Nitrosodi-n-Propylamine	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	< 0.5	-	-	-	-	-	-	< 0.5
Acenaphthene	T			µg/L	-	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	-	< 0.01	0.01	< 1	< 0.013	< 1	-	< 0.01	< 0.01	0.17	< 1	< 0.013	< 1
Acenaphthylene	T			µg/L	-	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	-	< 0.01	< 0.01	< 1	< 0.013	< 0.5	-	< 0.01	< 0.01	< 0.01	< 1	< 0.013	< 0.5
Anthracene	T	**0.1 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	-	< 0.01	< 0.01	< 1	< 0.013	< 0.5	-	< 0.01	< 0.01	< 0.01	< 1	< 0.013	< 0.5
Benzo(a)anthracene	T			µg/L	-	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	-	< 0.01	< 0.01	< 1	< 0.015	< 0.5	-	< 0.01	< 0.01	< 0.01	< 1	< 0.015	< 0.5
Benzo(a)pyrene	T	**0.00017 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	-	< 0.01	< 0.01	< 1	< 0.016	< 1	-	< 0.01	< 0.01	< 0.01	< 1	< 0.016	< 1
Benzo(b)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	-	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	-	< 0.01	< 0.01	< 1	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01
Benzo(b+k)fluoranthene	T	**0.017 µg/L**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal for benzo(b)fluoranthene/benzo(k)fluoranthene*	µg/L	-	< 0.02	< 0.02	< 0.02	-	< 0.02	-	-	-	< 0.02	< 0.018	< 0.018	< 1	-	< 0.02	< 0.02	< 0.02	< 0.018	< 0.018	< 1
Benzo(g,h,i)perylene	T	**0.00082 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	-	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	-	< 0.01	< 0.01	< 1	< 0.011	< 0.5	-	< 0.01	< 0.01	< 0.01	< 1	< 0.011	< 0.5
Benzo(g,h,i)perylene + Indeno(1,2,3-c,d)pyrene	T			µg/L	-	< 0.02	< 0.02	< 0.02	-	< 0.02	-	-	-	< 0.02	< 0.022	< 0.022	< 1.5	-	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022	< 1.5
Benzo(k)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	-	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	-	< 0.01	< 0.01	< 1	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01
Chrysene	T			µg/L	-	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	-	< 0.01	< 0.01	< 1	< 0.011	< 0.5	-	< 0.01	< 0.01	< 0.01	< 1	0.015	< 0.5
Dibenz(a,h)anthracene	T			µg/L	-	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	-	< 0.01	< 0.01	< 1	< 0.01	< 0.5	-	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.5
Fluoranthene	T	**0.0063 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	-	< 0.01	< 0.01	< 1	< 0.012	< 0.5	-	< 0.01	**0.01**	< 0.01	< 1	**0.019**	< 0.5
Fluorene	T			µg/L	-	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	-	< 0.01	0.02	< 1	< 0.014	< 0.5	-	< 0.01	< 0.01	0.06	< 1	< 0.014	< 0.5
Indeno(1,2,3-c,d)pyrene	T	Refer to result for benzo(a)pyrene as indicative of overall PAH risk	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	-	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	-	< 0.01	< 0.01	< 1	< 0.011	< 1	-	< 0.01	< 0.01	< 0.01	< 1	< 0.011	< 1
Naphthalene	T	**2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 0.05	< 0.05	< 0.05	-	< 0.05	< 1	-	< 0.05	0.12	< 1	0.1	< 2	-	0.05	0.19	0.15	< 1	0.1	< 2
Phenanthrene	T			µg/L	-	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	-	< 0.01	< 0.01	< 1	< 0.011	< 0.5	-	< 0.01	0.05	< 0.01	< 1	0.039	< 0.5
Pyrene	T			µg/L	-	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	-	< 0.01	< 0.01	< 1	< 0.013	< 0.5	-	< 0.01	0.01	< 0.01	< 1	0.032	< 0.5
Benzo(a)pyrene (surrogate marker for PAH mixture)	T			µg/L	-	< 0.01	< 0.01	< 0.01	-	< 0.01	-	-	-	< 0.01	< 0.016	< 0.016	< 1	-	< 0.01	< 0.01	< 0.01	< 0.016	< 0.016	< 1
PAH (Sum of 4)	T			µg/L	-	< 0.04	< 0.04	< 0.04	-	< 0.04	-	-	-	< 0.04	< 0.042	< 0.042	< 1.5	-	< 0.04	< 0.04	< 0.04	< 0.042	< 0.042	< 1.5
PAH (Sum of 16)	T			µg/L	-	< 0.2	< 0.2	< 0.2	-	< 0.2	-	-	-	< 0.2	< 0.195	< 0.195	0.21	-	< 0.2	0.26	0.38	< 0.195	0.205	< 0.2
Total PAH	T			µg/L	-	-	-	-	-	-	< 0.2	-	< 0.2	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	-	< 2
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	-	< 2
1,1,2,2-Tetrachloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH07D	MS\BH07D	MS\BH07D	MS\BH07D
				Date	14/12/2022	21/03/2023	22/06/2023	26/09/2023	26/09/2023	16/01/2024	16/07/2024	22/10/2024	22/10/2024	12/08/2021	12/10/2021	15/11/2021	13/04/2022	13/04/2022	05/07/2022	20/09/2022	12/08/2021	12/10/2021	15/11/2021	12/04/2022
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	79	80	-	-	-	-	-	76	80	-
1,1,2,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 4	-	-	-	< 1	< 1	-	< 4
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	-	< 2
1,1-Dichloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	T	**1 µg/L**	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	**1**	**2**	-	< 3	-	-	-	< 1	< 1	-	< 3
1,1-Dichloroethene	T	**1 µg/l**	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	T	1 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
1,1-dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
1,2,3-trichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-trichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
1,2,4-Trimethylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
1,2-dibromo-3-chloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-dibromo-3-chloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	-	< 2
1,2-Dibromoethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	-	< 2
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	-	< 2
1,2-Dichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	-	< 2	-	-	-	-	-	-	-	< 2	< 2	-	< 6	-	-	-	< 2	< 2	-	< 6
1,2-Dichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	-	< 2
1,3,5-Trimethylbenzene (Mesitylene)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene (Mesitylene)	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
1,3-Dichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	-	< 2
1,3-Dichloropropene	T			µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	T	**2 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 2	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	T	2 µg/L	*Laboratory LOD used*	ug/L	-	< 2	-	-	-	-	-	-	-	< 2	< 2	-	< 1	-	-	-	< 2	< 2	-	< 1
2-chlorotoluene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
2-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
4-chlorotoluene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
4-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	-	< 1	-	-	-	-	-	-	-	-	-	-	-
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	< 1	< 1	< 1	-	< 1	-	-	-	5.2	2	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1
Bromobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	-	< 2
Bromodichloromethane	T	**4 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 4	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	T	4 µg/L	*Laboratory LOD used*	ug/L	-	< 4	-	-	-	-	-	-	-	< 4	< 4	-	< 2	-	-	-	< 4	< 4	-	< 2
Bromoform	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	-	< 2
Bromomethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	-	< 1
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	-	< 2
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 4	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	ug/L	-	< 4	-	-	-	-	-	-	-	< 4	< 4	-	< 2	-	-	-	< 4	< 4	-	< 2
Chloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
Chloroform	T	**2.5 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	T	2.5 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	-	< 2
Chloromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	T	**1 µg/L**	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	**2**	< 1	-	< 3	-	-	-	**2**	< 1	-	< 3
cis-1,2-dichloroethene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
cis-1,3-Dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	-	< 2
Dibromochloromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	-	< 2
Dibromomethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	-	< 2
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 27	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	< 27	-	-	-	-	-	-	-	< 27	< 27	-	< 3	-	-	-	< 27	< 27	-	< 3
Ethylbenzene	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	< 1	-	< 1	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	T	**20 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	< 1	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH05S	MS\BH07D	MS\BH07D	MS\BH07D	MS\BH07D
				Date	14/12/2022	21/03/2023	22/06/2023	26/09/2023	26/09/2023	16/01/2024	16/07/2024	22/10/2024	22/10/2024	12/08/2021	12/10/2021	15/11/2021	13/04/2022	13/04/2022	05/07/2022	20/09/2022	12/08/2021	12/10/2021	15/11/2021	12/04/2022
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																					
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	79	80	-	-	-	-	-	76	80	-
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	< 1	< 0.1	-	-	-	< 1	< 1	< 1	< 0.1
n-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
n-Propylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Propylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
sec-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
sec-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	-	< 2
tert-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
tert-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	< 1	-	< 1	-	-	-	-	-	-	-	-	-	-	-
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	ug/L	-	< 1	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	< 5	-	< 1	< 1	< 1	< 1	< 1	< 5
trans-1,2-Dichloroethene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
trans-1,3-Dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	-	< 2
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
Trichlorofluoromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	-	< 3
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 0.1	-	-	-	< 1	< 1	-	< 0.1
m-& p-Xylenes	T	**2 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 2	-	-	-	-	-	-	-	-	-	-	-	-	-
m-& p-Xylenes	T	2 µg/L	*Laboratory LOD used*	ug/L	-	< 2	-	-	-	-	-	-	-	< 2	< 2	-	< 2	-	-	-	< 2	< 2	-	< 2
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	< 3	-	-	-	-	-	-	< 3
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	< 1	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1
o-Xylene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	< 1	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	-	< 1
Sum of Trihalomethanes	T	7 µg/L	*Laboratory LOD used*	µg/L	-	< 7	-	-	-	-	-	-	-	< 7	< 7	-	< 8	-	-	-	< 7	< 7	-	< 8
Sum of Tetrachloroethene + Trichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	-	< 2	-	-	-	-	-	-	-	< 2	< 2	-	< 6	-	-	-	< 2	< 2	-	< 6
Volatile TIC	T			none	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH >C5-C10	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH >C10-C40	T			µg/L	-	-	-	-	-	-	-	-	-	370	170	70	-	-	-	-	120	15	140	-
Aliphatics >C5-C6	T			µg/L	-	< 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	29
Aliphatics >C5-C35	T			µg/L	-	-	-	-	-	-	-	-	-	< 10	200	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	29
Aliphatics >C6-C8	T			µg/L	-	< 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
Aliphatics >C8-C10	T			µg/L	-	< 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
Aliphatics >C10-C12	T			µg/L	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	< 1	4.8	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1
Aliphatics >C10-C44	T			µg/L	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	-	-	-	-	-	-	-	-	-	-
Aliphatics >C12-C16	T			µg/L	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	< 1	4	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1
Aliphatics >C16-C21	T			µg/L	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	< 1	120	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1
Aliphatics >C16-C35	T			µg/L	-	< 2	< 2	< 2	-	< 2	-	-	-	< 2	190	< 2	< 2	-	< 2	< 2	< 2	< 2	< 2	< 2
Aliphatics >C21-C35	T			µg/L	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	< 1	70	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1
Aliphatics >C35-C44	T			µg/L	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	-	-	-	-	-	-	-	-	-	-
Aromatics >C5-C7	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	-	< 0.1	5.2	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatics >C5-C35	T			µg/L	-	-	-	-	-	-	-	-	-	< 10	92	< 10	< 10	-	32	< 10	< 10	110	< 10	< 10
Aromatics >C7-C8	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	< 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
Aromatics >C8-C10	T			µg/L	-	< 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
Aromatics >C10-C12	T			µg/L	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	3.9	< 1	< 1
Aromatics >C10-C44	T			µg/L	-	< 1	< 1	39	-	< 1	< 1	-	< 1	-	-	-	-	-	-	-	-	-	-	-
Aromatics >C12-C16	T			µg/L	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	< 1	7.6	< 1	< 1	-	< 1	< 1	< 1	11	< 1	< 1
Aromatics >C16-C21	T			µg/L	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	< 1	59	< 1	< 1	-	2	< 1	< 1	74	< 1	< 1
Aromatics >C21-C35	T			µg/L	-	< 1	< 1	39	-	< 1	< 1	-	< 1	< 1	25	< 1	< 1	-	30	< 1	< 1	23	< 1	< 1
Aromatics >C35-C44	T			µg/L	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	-	-	-	-	-	-	-	-	-	-	-
Aliphatics & Aromatics >C5-C35	T			µg/L	-	-	-	-	-	-	-	-	-	< 10	290	< 10	< 10	-	33	< 10	< 10	110	< 10	29
Aliphatics & Aromatics >C10-C44	T			µg/L	-	< 1	< 1	39	-	< 1	< 1	-	< 1	-	-	-	-	-	-	-	-	-	-	-

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH07D	MS\BH07D	MS\BH07D	MS\BH08D	MS\BH08D	MS\BH08D	MS\BH08D	MS\BH08D	MS\BH08D	MS\BH08D	MS\BH09D	MS\BH09D	MS\BH09D	MS\BH09D	MS\BH09D	MS\BH11D	MS\BH11D	MS\BH11D	MS\BH11D	MS\BH11D
				Date	12/04/2022	05/07/2022	20/09/2022	11/08/2021	12/10/2021	15/11/2021	12/04/2022	12/04/2022	05/07/2022	20/09/2022	13/08/2021	12/10/2021	15/11/2021	05/07/2022	20/09/2022	11/08/2021	13/10/2021	17/11/2021	12/04/2022	12/04/2022
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	82	82	-	-	-	-	-	82	78	-	-	-	76	-	-	-
SVOC TICs	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibutyltin	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tributyltin	T	0.0002 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triphenyltin	T	0.008 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 0.5	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 0.5	-
PCB 12	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	< 1	-	-	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	-	-
PCB 52	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	< 0.2	-	-	-	-	-	-	< 0.2	-	-	-	-	< 0.2	-	-	-	-	-
PCB 77	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	< 0.3	-	-	-	-	-	-	< 0.3	-	-	-	-	< 0.3	-	-	-	-	-
PCB 81	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	< 0.2	-	-	-	-	-	-	< 0.2	-	-	-	-	< 0.2	-	-	-	-	-
PCB 101	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	< 0.3	-	-	-	-	-	-	< 0.3	-	-	-	-	< 0.3	-	-	-	-	-
PCB 105	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	< 0.2	-	-	-	-	-	-	< 0.2	-	-	-	-	< 0.2	-	-	-	-	-
PCB 114	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	< 0.3	-	-	-	-	-	-	< 0.3	-	-	-	-	< 0.3	-	-	-	-	-
PCB 126	T	0.5 µg/L	*Laboratory LOD used*	µg/L	-	-	< 0.5	-	-	-	-	-	-	< 0.5	-	-	-	-	< 0.5	-	-	-	-	-
PCB 138	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	< 0.2	-	-	-	-	-	-	< 0.2	-	-	-	-	< 0.2	-	-	-	-	-
PCB 153	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	< 0.2	-	-	-	-	-	-	< 0.2	-	-	-	-	< 0.2	-	-	-	-	-
PCB 156	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	< 0.3	-	-	-	-	-	-	< 0.3	-	-	-	-	< 0.3	-	-	-	-	-
PCB 157	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	< 0.2	-	-	-	-	-	-	< 0.2	-	-	-	-	< 0.2	-	-	-	-	-
PCB 167	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	< 0.3	-	-	-	-	-	-	< 0.3	-	-	-	-	< 0.3	-	-	-	-	-
PCB 169	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	< 0.2	-	-	-	-	-	-	< 0.2	-	-	-	-	< 0.2	-	-	-	-	-
PCB 180	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	< 0.2	-	-	-	-	-	-	< 0.2	-	-	-	-	< 0.2	-	-	-	-	-
PCB 189	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	< 0.3	-	-	-	-	-	-	< 0.3	-	-	-	-	< 0.3	-	-	-	-	-
PCB Coelute 28/31	T	0.3 µg/L	*Laboratory LOD used*	ug/L	-	-	< 0.3	-	-	-	-	-	-	< 0.3	-	-	-	-	< 0.3	-	-	-	-	-
PCB Coelute 118/123	T	0.6 µg/L	*Laboratory LOD used*	ug/L	-	-	< 0.6	-	-	-	-	-	-	< 0.6	-	-	-	-	< 0.6	-	-	-	-	-
Total 7 PCB	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	< 1	-	-	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	-	-
2,3,6-TBA	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	< 0.02	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-
2,4,5-T	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	< 0.02	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-
2,4-D	T	0.3 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	< 0.02	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-
2,4-DB	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	< 0.02	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-
2-Methyl-4-Chlorophenoxy Butanoic Acid	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	< 0.02	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	T	80 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	< 0.02	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-
Actril (loxynil)	T	10 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	< 0.02	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-
Bentazon	T	500 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	< 0.02	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-
Bromoxynil	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	< 0.02	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-
Clopyralid	T	**0.02 µg/L**	*Laboratory LOD used*	ug/L	-	-	**0.02**	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-
Dicamba	T	**0.02 µg/L**	*Laboratory LOD used*	µg/L	-	-	< 0.02	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-
Dichlorprop	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	< 0.02	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-
Fluroxypyr	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	< 0.02	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-
Mecoprop	T	18 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	< 0.02	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-
Picloram	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	< 0.02	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-
Silvex	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	< 0.02	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-
Triclopyr	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	< 0.02	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-
Dinitrobenzene, p-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	-	-
1,3-Dinitrobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	-	-
Dinitrotoluene, 2,4-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 0.5	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 0.5	-
Dinitrotoluene, 2,6-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	-
Nitrobenzene	T			µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	< 1	-
Chlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 2	-
1,2-Dichlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
1,3-Dichlorobenzene	T	**2 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	< 2	< 2	-	< 3	-	-	-	< 2	< 2	< 2	-	-	-	< 2	< 2	< 3	-
1,4-Dichlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
Trichlorobenzene	T	0.4 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	< 2	< 2	-	< 4	-	-	-	< 2	< 2	< 2	-	-	-	< 2	< 2	< 4	-
1,2,3-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
1,2,4-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
Hexachlorobenzene	T	0.05 µg/l	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	-	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	-
2,3,4,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	-	-
2,3,5,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,5,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	-	-
2,4,5-Trichlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 0.5	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 0.5	-
2,4,6-Trichlorophenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	-	< 0.1	< 0.1	< 1	< 1	-	< 1	-	< 0.1	< 0.1	< 1	< 1	< 1	< 0.1	< 0.1	-	< 1	< 1	< 1	-
2,4-Dichlorophenol	T	0.42 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	< 0.1	< 0.1	< 1	< 1	-	< 0.5	-	< 0.1	< 0.1	< 1	< 1	< 1	< 0.1	< 0.1	-	< 1	< 1	< 0.5	-
2,4-Dimethylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/L	-	< 0.1	< 0.1	< 1	< 1	-	< 1	-	< 0.1	< 0.1	< 1	< 1	< 1	< 0.1	< 0.1	-	< 1	< 1	< 1	-
2,6-Dichlorophenol	T	0.42 µg/L	*WFD England/Wales. 2015 - Saltwater Standards for 2,4-dichlorophenol*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dichlorophenol	T	0.42 µg/L	*WFD England/Wales. 2015 - Saltwater Standards for 2,4-dichlorophenol*	ug/L	-	< 0.1	< 0.1	-	-	-	< 0.1	-	< 0.1	< 0.1	-	-	-	< 0.1	< 0.1	-	-	-	< 0.1	-
2,6-Dimethylphenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	-	< 0.1	< 0.1	-	-	-	< 0.1	-	< 0.1	< 0.1	-	-	-	< 0.1	< 0.1	-	-	-	< 0.1	-
2-Chlorophenol	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	-
2-methylphenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 0.5	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 0.5	-
2-Nitrophenol	T			µg/L	-	-	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	< 0.5	-
3/4-Methylphenol (m/p-cresol)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	-	-

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH07D	MS\BH07D	MS\BH07D	MS\BH08D	MS\BH08D	MS\BH08D	MS\BH08D	MS\BH08D	MS\BH08D	MS\BH08D	MS\BH09D	MS\BH09D	MS\BH09D	MS\BH09D	MS\BH09D	MS\BH11D	MS\BH11D	MS\BH11D	MS\BH11D	MS\BH11D
				Date	12/04/2022	05/07/2022	20/09/2022	11/08/2021	12/10/2021	15/11/2021	12/04/2022	12/04/2022	05/07/2022	20/09/2022	13/08/2021	12/10/2021	15/11/2021	05/07/2022	20/09/2022	11/08/2021	13/10/2021	17/11/2021	12/04/2022	12/04/2022
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	82	82	-	-	-	-	-	82	78	-	-	-	76	-	-	-
4-Chloro-3-methylphenol	T	40 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 0.1	< 0.1	< 1	< 1	-	< 0.5	-	< 0.1	< 0.1	< 1	< 1	< 1	< 0.1	< 0.1	-	< 1	< 1	< 0.5	-
4-Methylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/L	-	< 0.1	< 0.1	-	-	-	< 1	-	< 0.1	< 0.1	-	-	-	< 0.1	< 0.1	-	-	-	< 1	-
4-Nitrophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 10	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 10	-
Pentachlorophenol	T	**0.4 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	< 0.02	< 1	< 1	-	< 1	-	-	< 0.02	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	-
Phenol	T	**7.7 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	< 0.1	< 0.1	< 1	< 1	-	< 1	-	< 0.1	< 0.1	< 1	< 1	1.2	< 0.1	< 0.1	-	< 1	< 1	< 1	-
Total Monohydric Phenols (S) Corrected	T	**100 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	< 100	< 100	< 100	-	-	-	-	< 100	< 100	< 100	-	-	< 100	< 100	**910**	-	-
Dissolved Organic Carbon	D			mg/L	-	7	9.4	-	-	-	7.1	-	8.3	12	-	-	-	6.6	9	-	-	-	8.1	-
Dissolved Organic Carbon	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	T			mg/L	-	-	-	32	29	9.1	-	-	-	-	36	17	8.2	-	-	39	23	11	-	-
Colour	N			none	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	grey colour
Density	N			g/cm3	1.000462	-	-	-	-	-	-	1.000722	-	-	-	-	-	-	-	-	-	-	-	1.000268
Electrical Conductivity (Lab)	T			µS/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Electrical Conductivity (Lab)	T			uS/cm	-	1880	1660	-	-	-	2700	-	3780	4070	-	-	-	679	705	-	-	-	1170	-
pH	T			pH units	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Solids, Suspended at 105 C	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Suspended solids (NEN-EN 872)	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ammoniacal Nitrogen as N	T	**21 µg/l**	*Value for un-ionised ammonia, WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	**1000**	**640**	**1200**	**1900**	**2500**	**2800**	-	**2500**	**3100**	**1900**	**5400**	**5200**	**3700**	**3500**	**1800**	**3300**	**3800**	**3900**	-
Ammoniacal Nitrogen as NH3	T			mg/L	-	1.2	0.78	1.5	2.3	3	3.5	-	3	3.8	2.3	6.6	6.3	4.5	4.2	2.2	4.1	4.6	4.8	-
Carbonate	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	T			µg/L	-	-	130000	-	-	-	-	-	-	580000	-	-	-	-	65000	-	-	-	-	-
Cyanide	D	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	T	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	**11**	**15**	**< 40**	**8.5**	**7.2**	**7.7**	-	**3.8**	**6.7**	**< 40**	**5.1**	**12**	**5.2**	**8.5**	**< 40**	**14**	**12**	**12**	-
Cyanide (free)	T	**1 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	**2.6**	0.6	< 20	0.3	0.3	0.7	-	< 0.1	< 0.1	< 20	0.3	0.7	0.8	< 0.1	< 20	0.4	0.5	0.8	-
Cyanide, Total Low Level	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanides-complex	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Elemental Sulphur	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Elemental Sulphur	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	D	**5000 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	T	**5000 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	< 100	-	-	-	-	-	-	< 100	-	-	-	-	410	-	-	-	-	-
Hardness as CaCO3	T			mg/L	-	-	-	388	552	577	-	-	-	-	30.3	106	108	-	-	95.4	128	126	-	-
Ion balance	T			%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	T			mg/L	-	< 0.1	< 0.1	0.17	-	-	< 0.1	-	< 0.1	< 0.1	-	-	-	0.03	0.04	0.15	-	-	< 0.1	-
Nitrate (as NO3-)	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as NO3-)	T			µg/L	-	< 442.66	< 442.66	752.522	< 100	< 100	< 442.66	-	< 442.66	< 442.66	< 100	< 100	360	132.798	177.064	663.99	< 100	250	< 442.66	-
Nitrite	T			µg/L	-	< 114.954	< 114.954	< 114.954	< 100	< 100	< 114.954	-	147.798	< 114.954	< 100	1800	< 100	< 98.532	< 98.532	< 114.954	2200	< 100	< 114.954	-
Nitrite (as N)	T			mg/L	-	< 0.035	< 0.035	< 0.035	-	-	< 0.035	-	0.045	< 0.035	-	-	-	< 0.03	< 0.03	< 0.035	-	-	< 0.035	-
Nitrite (as N)	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ortho Phosphate as P	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphate (as P)	T			mg/L	-	-	< 0.01	-	-	-	-	-	-	0.38	-	-	-	-	0.14	-	-	-	-	-
Phosphorous, Total Orthophosphate (As P)	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silica as SiO2	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate As SO4	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate As SO4	T			µg/L	-	-	-	710000	730000	380000	-	-	-	-	160000	150000	160000	-	-	67000	96000	110000	-	-
Sulphide	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphide	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphur as S	T			mg/L	-	-	-	-	-	-	-	-	-	-	50	-	-	-	-	-	-	-	-	-
Sulphur (Free)	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thiocyanate	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thiocyanate	T			µg/L	-	66	< 20	44	43	31	< 20	-	36	< 20	150	110	170	77	< 20	170	190	240	310	-
Total Hardness	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphur	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium	D	**15 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	11	-	-	-	-	-	-	12	-	-	-	-	**33**	-	-	-	-	-
Antimony	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	D	**25 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	2.1	3.5	13	3.9	3.2	8	-	5.1	4.9	8.4	7.4	7.9	13	14	2.6	3.5	2.5	3.2	-
Barium	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	D			µg/L	-	< 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	-
Boron	D	7000 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	420	470	460	650	660	720	-	670	680	210	230	230	250	300	700	740	690	710	-
Cadmium	D	**0.2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-
Calcium	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trivalent Chromium (CrIII)	D			µg/L	-	< 1	< 1	< 1	< 1	< 1	< 1	-	2.2	3.7	< 1	< 1	< 1	< 1	< 1	< 1	1.1	< 1	< 1	-
Hexavalent Chromium (CrVI)	T	**0.6 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	< 7	< 7	< 7	< 7	< 7	< 7	-	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7	-
Copper	D	**3.76 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	-	0.4	1.1	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.8	< 0.4	< 0.4	-
Iron	D	**1000 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	11	20	14	85	37	76	-	37	110	16	18	56	7.4	13	20	89	130	100	-
Lead	D	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 0.09	0.1	< 0.09	< 0.09	< 0.09	0.14	-	0.25	0.11	0.09	< 0.09	0.11	< 0.09	< 0.09	0.1	0.26	0.38	**2.6**	-
Magnesium	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	D			µg/L	-	-	250	-	-	-	-	-	-	400	-	-	-	-	26	-	-	-	-	-
Mercury	D	**0.07 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	-	< 0.01	< 0.01	0.06	0.04	0.05	0.02	-	0.03	0.01	0.05	**0.13**	**0.12**	0.05	**0.07**	**0.07**	**0.07**	0.04	< 0.01	-

AECOM

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				Date	12/04/2022	05/07/2022	20/09/2022	11/08/2021	12/10/2021	15/11/2021	12/04/2022	12/04/2022	05/07/2022	20/09/2022	13/08/2021	12/10/2021	15/11/2021	05/07/2022	20/09/2022	11/08/2021	13/10/2021	17/11/2021	12/04/2022	12/04/2022
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	82	82	-	-	-	-	-	82	78	-	-	-	76	-	-	-
Molybdenum	D			µg/L	-	-	12	-	-	-	-	-	-	4.6	-	-	-	-	9.4	-	-	-	-	-
Nickel	D	**8.6 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	0.9	< 0.5	1.5	0.7	0.6	0.6	-	1.6	< 0.5	1.6	1.3	1.2	1.4	< 0.5	2.3	2.2	1	1	-
Phosphorus	D	See source document	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	22	-	-	-	-	-	-	740	-	-	-	-	230	-	-	-	-	-
Potassium	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	D			µg/L	-	0.34	0.26	3.8	0.74	0.47	0.36	-	1.8	< 0.25	7.1	5.6	2.6	1.4	0.56	1.6	0.41	0.29	< 0.25	-
Sodium	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin	D	10 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	< 0.4	-	-	-	-	-	-	< 0.4	-	-	-	-	< 0.4	-	-	-	-	-
Titanium	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium	D			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	D	**100 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 0.6	< 0.6	4.5	4.2	5.6	4.3	-	4.9	3.9	8.1	15	3.3	1.3	1.4	16	20	13	7.2	-
Zinc	D	**6.8 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	4.5	**37**	1.8	< 1.3	1.7	**36**	-	3.7	6.2	4.4	< 1.3	2.1	2.6	**11**	1.8	**51**	3.4	**15**	-
2-chloronaphthalene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	-
2-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	-
3-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	-
4-bromophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	-
4-Chlorophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	-
4-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 0.5	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 0.5	-
Aniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	-	-
Azobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 0.5	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 0.5	-
Benzyl Alcohol	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	-	-
Benzyl Butyl Phthalate	T	0.75 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	-
bis(2-Chloroethoxy)methane	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 0.5	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 0.5	-
bis(2-Chloroethyl)ether	T			µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	< 1	-
bis(2-Chloroisopropyl)ether	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	-	-
Bis(2-Ethylhexyl) Adipate	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	-	-
Bis(2-ethylhexyl) phthalate	T	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	< 1	< 1	-	< 5	-	-	-	< 1	< 1	**2.9**	-	-	-	< 1	< 1	< 5	-
Carbazole	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 0.5	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 0.5	-
Chloroaniline, p-	T			µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	< 1	-
Diethyl Phthalate	T	200 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	-
Dimethyl Phthalate	T	800 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	-
Di-n-butyl phthalate	T	8 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	< 1	< 1	-	< 1.5	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1.5	-
Di-n-octyl phthalate	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	-
Diphenylamine	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	-	-
Hexachlorobutadiene	T	**0.6 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
Hexachlorocyclopentadiene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	-
Hexachloroethane	T			µg/L	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	< 1	-
Isophorone	T			µg/L	-	-	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	< 0.5	-
ISOPROPYLTOLUENE, p-	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
Methylnaphthalene, 1-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	-	-
Methylnaphthalene, 2-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	-
N-Nitrosodi-n-Propylamine	T			µg/L	-	-	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	< 0.5	-
Acenaphthene	T			µg/L	-	< 0.01	0.03	0.08	< 1	0.015	< 1	-	< 0.01	0.03	0.02	< 1	< 1	0.09	0.01	0.02	< 1	< 1	< 1	-
Acenaphthylene	T			µg/L	-	< 0.01	0.03	< 0.01	< 1	< 0.013	< 0.5	-	< 0.01	0.02	< 0.01	< 1	< 1	0.04	< 0.01	< 0.01	< 1	< 1	< 0.5	-
Anthracene	T	**0.1 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 0.01	0.02	< 0.01	< 1	< 0.013	< 0.5	-	< 0.01	< 0.01	< 0.01	< 1	< 1	0.07	< 0.01	< 0.01	< 1	< 1	< 0.5	-
Benzo(a)anthracene	T			µg/L	-	< 0.01	0.03	< 0.01	< 1	< 0.015	< 0.5	-	< 0.01	< 0.01	< 0.01	< 1	< 1	0.04	< 0.01	< 0.01	< 1	< 1	< 0.5	-
Benzo(a)pyrene	T	**0.00017 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 0.01	< 0.01	< 0.01	< 1	< 0.016	< 1	-	< 0.01	< 0.01	< 0.01	< 1	< 1	**0.04**	< 0.01	< 0.01	< 1	< 1	< 1	-
Benzo(b)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	-	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 1	< 1	**0.06**	< 0.01	< 0.01	< 1	< 1	< 0.01	-
Benzo(b+k)fluoranthene	T	**0.017 µg/L**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal for benzo(b)fluoranthene/benzo(k)fluoranthene*	µg/L	-	< 0.02	< 0.02	< 0.02	< 0.018	< 0.018	< 1	-	< 0.02	< 0.02	< 0.02	< 0.018	< 0.018	**0.07**	< 0.02	< 0.02	< 0.018	< 0.018	< 1	-
Benzo(g,h,i)perylene	T	**0.00082 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	-	< 0.01	< 0.01	< 0.01	< 1	< 0.011	< 0.5	-	< 0.01	< 0.01	< 0.01	< 1	< 1	**0.11**	< 0.01	< 0.01	< 1	< 1	< 0.5	-
Benzo(g,h,i)perylene + Indeno(1,2,3-c,d)pyrene	T			µg/L	-	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022	< 1.5	-	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022	0.14	< 0.02	< 0.02	< 0.022	< 0.002	< 1.5	-
Benzo(k)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	-	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 1	< 1	0.01	< 0.01	< 0.01	< 1	< 1	< 0.01	-
Chrysene	T			µg/L	-	< 0.01	< 0.01	< 0.01	< 1	< 0.011	< 0.5	-	< 0.01	0.01	< 0.01	< 1	< 1	0.06	< 0.01	< 0.01	< 1	< 1	< 0.5	-
Dibenz(a,h)anthracene	T			µg/L	-	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.5	-	< 0.01	< 0.01	< 0.01	< 1	< 1	0.01	< 0.01	< 0.01	< 1	< 1	< 0.5	-
Fluoranthene	T	**0.0063 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 0.01	**0.03**	< 0.01	< 1	< 0.012	< 0.5	-	< 0.01	**0.02**	< 0.01	< 1	< 1	**0.18**	< 0.01	**0.01**	< 1	< 1	**< 0.5**	-
Fluorene	T			µg/L	-	< 0.01	0.05	0.02	< 1	< 0.014	< 0.5	-	< 0.01	0.04	0.01	< 1	< 1	0.1	0.02	0.01	< 1	< 1	< 0.5	-
Indeno(1,2,3-c,d)pyrene	T	Refer to result for benzo(a)pyrene as indicative of overall PAH risk	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	-	< 0.01	< 0.01	< 0.01	< 1	< 0.011	< 1	-	< 0.01	< 0.01	< 0.01	< 1	< 1	0.03	< 0.01	< 0.01	< 1	< 1	< 1	-
Naphthalene	T	**2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 0.05	< 0.05	0.42	< 1	0.1	< 2	-	0.31	0.06	0.2	< 1	< 1	**2.7**	0.24	0.17	< 1	< 1	< 2	-
Phenanthrene	T			µg/L	-	< 0.01	0.25	< 0.01	< 1	< 0.011	< 0.5	-	< 0.01	0.18	< 0.01	< 1	< 1	0.52	0.07	< 0.01	< 1	< 1	< 0.5	-
Pyrene	T			µg/L	-	< 0.01	0.03	< 0.01	< 1	< 0.013	< 0.5	-	< 0.01	0.02	< 0.01	< 1	< 1	0.33	0.01	0.01	< 1	< 1	< 0.5	-
Benzo(a)pyrene (surrogate marker for PAH mixture)	T			µg/L	-	< 0.01	< 0.01	< 0.01	< 0.016	< 0.016	< 1	-	< 0.01	< 0.01	< 0.01	< 0.016	< 0.016	0.04	< 0.01	< 0.01	< 0.016	< 0.001	< 1	-
PAH (Sum of 4)	T			µg/L	-	< 0.04	< 0.04	< 0.04	< 0.042	< 0.042	< 1.5	-	< 0.04	< 0.04	< 0.04	< 0.042	< 0.042	0.21	< 0.04	< 0.04	< 0.042	< 0.004	< 1.5	-
PAH (Sum of 16)	T			µg/L	-	< 0.2	0.46	0.52	< 0.195	< 0.195	< 0.2	-	0.31	0.38	0.23	< 0.195	0.3	4.4	0.34	0.22	0.219	0.178	< 0.2	-
Total PAH	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 2	-
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 2	-
1,1,2,2-Tetrachloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH07D	MS\BH07D	MS\BH07D	MS\BH08D	MS\BH08D	MS\BH08D	MS\BH08D	MS\BH08D	MS\BH08D	MS\BH08D	MS\BH09D	MS\BH09D	MS\BH09D	MS\BH09D	MS\BH09D	MS\BH11D	MS\BH11D	MS\BH11D	MS\BH11D	MS\BH11D
				Date	12/04/2022	05/07/2022	20/09/2022	11/08/2021	12/10/2021	15/11/2021	12/04/2022	12/04/2022	05/07/2022	20/09/2022	13/08/2021	12/10/2021	15/11/2021	05/07/2022	20/09/2022	11/08/2021	13/10/2021	17/11/2021	12/04/2022	12/04/2022
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	82	82	-	-	-	-	-	82	78	-	-	-	76	-	-	-
1,1,2,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 4	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 4	-
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 2	-
1,1-Dichloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	T	**1 µg/L**	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	**1**	< 1	-	-	-	< 1	< 1	< 3	-
1,1-Dichloroethene	T	**1 µg/l**	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	T	1 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
1,1-dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
1,2,3-trichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-trichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
1,2,4-Trimethylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
1,2-dibromo-3-chloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-dibromo-3-chloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 2	-
1,2-Dibromoethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 2	-
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 2	-
1,2-Dichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 2	< 2	-	< 6	-	-	-	< 2	< 2	< 2	-	-	-	< 2	< 2	< 6	-
1,2-Dichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 2	-
1,3,5-Trimethylbenzene (Mesitylene)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene (Mesitylene)	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
1,3-Dichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 2	-
1,3-Dichloropropene	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	T	**2 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	T	2 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 2	< 2	-	< 1	-	-	-	< 2	< 2	< 2	-	-	-	< 2	< 2	< 1	-
2-chlorotoluene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
4-chlorotoluene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	5	4	4	< 1	3.3	< 1	< 1	< 1	< 1	-
Bromobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 2	-
Bromodichloromethane	T	**4 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	T	4 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 4	< 4	-	< 2	-	-	-	< 4	< 4	< 4	-	-	-	< 4	< 4	< 2	-
Bromoform	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 2	-
Bromomethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	-
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 2	-
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 4	< 4	-	< 2	-	-	-	< 4	< 4	< 4	-	-	-	< 4	< 4	< 2	-
Chloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
Chloroform	T	**2.5 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	T	2.5 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 2	-
Chloromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	T	**1 µg/L**	*Laboratory LOD used*	ug/L	-	-	-	**3**	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
cis-1,2-dichloroethene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
cis-1,3-Dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 2	-
Dibromochloromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 2	-
Dibromomethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 2	-
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	-	-	< 27	< 27	-	< 3	-	-	-	< 27	< 27	< 27	-	-	-	< 27	< 27	< 3	-
Ethylbenzene	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	T	**20 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-
Isopropylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH07D	MS\BH07D	MS\BH07D	MS\BH08D	MS\BH08D	MS\BH08D	MS\BH08D	MS\BH08D	MS\BH08D	MS\BH08D	MS\BH09D	MS\BH09D	MS\BH09D	MS\BH09D	MS\BH09D	MS\BH11D	MS\BH11D	MS\BH11D	MS\BH11D	MS\BH11D
				Date	12/04/2022	05/07/2022	20/09/2022	11/08/2021	12/10/2021	15/11/2021	12/04/2022	12/04/2022	05/07/2022	20/09/2022	13/08/2021	12/10/2021	15/11/2021	05/07/2022	20/09/2022	11/08/2021	13/10/2021	17/11/2021	12/04/2022	12/04/2022
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	82	82	-	-	-	-	-	82	78	-	-	-	76	-	-	-
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	-	-	-	< 1	< 1	< 1	< 0.1	-	-	-	< 1	< 1	< 1	-	-	< 1	< 1	< 1	< 0.1	-
n-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
n-Propylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Propylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
sec-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
sec-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 2	-
tert-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
tert-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	ug/L	-	< 1	< 1	< 1	< 1	< 1	< 5	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	-
trans-1,2-Dichloroethene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
trans-1,3-Dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 2	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 2	-
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
Trichlorofluoromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 3	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 3	-
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	-	-	-	< 1	< 1	-	< 0.1	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 0.1	-
m-& p-Xylenes	T	**2 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m-& p-Xylenes	T	2 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 2	< 2	-	< 2	-	-	-	< 2	< 2	< 2	-	-	-	< 2	< 2	< 2	-
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	< 3	-	-	-	-	-	-	-	-	-	-	-	< 3	-
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-
o-Xylene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	-	-	-	< 1	< 1	< 1	-
Sum of Trihalomethanes	T	7 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 7	< 7	-	< 8	-	-	-	< 7	< 7	< 7	-	-	-	< 7	< 7	< 8	-
Sum of Tetrachloroethene + Trichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 2	< 2	-	< 6	-	-	-	< 2	< 2	< 2	-	-	-	< 2	< 2	< 6	-
Volatile TIC	T			none	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH >C5-C10	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH >C10-C40	T			µg/L	-	-	-	54	110	29	-	-	-	-	150	300	56	-	-	< 10	< 10	59	-	-
Aliphatics >C5-C6	T			µg/L	-	6.7	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	7.7	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-
Aliphatics >C5-C35	T			µg/L	-	< 10	< 10	51	< 10	< 10	< 10	-	45	< 10	35	390	< 10	28	< 10	99	< 10	< 10	< 10	-
Aliphatics >C6-C8	T			µg/L	-	< 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	-
Aliphatics >C8-C10	T			µg/L	-	< 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	-
Aliphatics >C10-C12	T			µg/L	-	< 1	< 1	33	< 1	< 1	< 1	-	1.5	< 1	2.8	6.4	< 1	< 1	< 1	45	< 1	< 1	< 1	-
Aliphatics >C10-C44	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatics >C12-C16	T			µg/L	-	< 1	< 1	8.6	< 1	< 1	< 1	-	1.8	< 1	1.5	6.7	< 1	3.4	< 1	18	< 1	< 1	< 1	-
Aliphatics >C16-C21	T			µg/L	-	< 1	< 1	8.2	< 1	< 1	< 1	-	7.1	< 1	30	160	< 1	9.8	< 1	24	< 1	< 1	< 1	-
Aliphatics >C16-C35	T			µg/L	-	< 2	< 2	9.2	< 2	< 2	< 2	-	34.1	< 2	31	380	< 2	23.8	< 2	36	< 2	< 2	< 2	-
Aliphatics >C21-C35	T			µg/L	-	< 1	< 1	< 1	< 1	< 1	< 1	-	27	< 1	< 1	220	< 1	14	< 1	12	< 1	< 1	< 1	-
Aliphatics >C35-C44	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatics >C5-C7	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	3.3	< 0.1	< 0.1	< 0.1	< 0.1	-
Aromatics >C5-C35	T			µg/L	-	< 10	< 10	< 10	64	< 10	< 10	-	19	< 10	< 10	240	< 10	< 10	< 10	< 10	< 10	29	< 10	-
Aromatics >C7-C8	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	< 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	-
Aromatics >C8-C10	T			µg/L	-	< 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	-
Aromatics >C10-C12	T			µg/L	-	< 1	< 1	< 1	2.1	< 1	< 1	-	< 1	< 1	< 1	2.2	< 1	< 1	< 1	< 1	< 1	< 1	2.3	-
Aromatics >C10-C44	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatics >C12-C16	T			µg/L	-	< 1	< 1	< 1	4.1	< 1	< 1	-	< 1	< 1	< 1	8.4	< 1	< 1	< 1	< 1	< 1	2.5	4.9	-
Aromatics >C16-C21	T			µg/L	-	< 1	< 1	< 1	43	< 1	< 1	-	3.3	< 1	< 1	110	< 1	< 1	< 1	< 1	< 1	24	< 1	-
Aromatics >C21-C35	T			µg/L	-	2.9	< 1	< 1	15	< 1	< 1	-	15	< 1	< 1	110	< 1	< 1	< 1	< 1	< 1	1.5	< 1	-
Aromatics >C35-C44	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatics & Aromatics >C5-C35	T			µg/L	-	10	< 10	51	64	< 10	< 10	-	64	< 10	36	630	< 10	28	< 10	99	< 10	29	< 10	-
Aliphatics & Aromatics >C10-C44	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH11D	MS\BH11D	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH14	MS\BH14	MS\BH14
				Date	04/07/2022	21/09/2022	12/08/2021	12/10/2021	16/11/2021	11/04/2022	11/04/2022	07/07/2022	22/09/2022	13/12/2022	20/03/2023	21/06/2023	26/09/2023	27/09/2023	16/01/2024	23/10/2024	23/10/2024	10/08/2021	13/10/2021	16/11/2021
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73	-
SVOC TICs	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibutyltin	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
Tributyltin	T	0.0002 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
Triphenyltin	T	0.008 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
Dibenzofuran	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 0.5	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
PCB 12	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	< 1	< 1	-	-	-	-	-	-	-	-	-	-
PCB 52	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	< 0.2	-	-	-	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-
PCB 77	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	< 0.3	-	-	-	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-
PCB 81	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	< 0.2	-	-	-	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-
PCB 101	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	< 0.3	-	-	-	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-
PCB 105	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	< 0.2	-	-	-	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-
PCB 114	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	< 0.3	-	-	-	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-
PCB 126	T	0.5 µg/L	*Laboratory LOD used*	µg/L	-	< 0.5	-	-	-	-	-	-	< 0.5	< 0.5	-	-	-	-	-	-	-	-	-	-
PCB 138	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	< 0.2	-	-	-	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-
PCB 153	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	< 0.2	-	-	-	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-
PCB 156	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	< 0.3	-	-	-	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-
PCB 157	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	< 0.2	-	-	-	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-
PCB 167	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	< 0.3	-	-	-	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-
PCB 169	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	< 0.2	-	-	-	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-
PCB 180	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	< 0.2	-	-	-	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-
PCB 189	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	< 0.3	-	-	-	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-
PCB Coelute 28/31	T	0.3 µg/L	*Laboratory LOD used*	ug/L	-	< 0.3	-	-	-	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-
PCB Coelute 118/123	T	0.6 µg/L	*Laboratory LOD used*	ug/L	-	< 0.6	-	-	-	-	-	-	< 0.6	< 0.6	-	-	-	-	-	-	-	-	-	-
Total 7 PCB	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	-	-	< 1	< 1	-	-	-	-	-	-	-	-	-	-
2,3,6-TBA	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-	-
2,4,5-T	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-	-
2,4-D	T	0.3 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-	-
2,4-DB	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-	-
2-Methyl-4-Chlorophenoxy Butanoic Acid	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-	-
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	T	80 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-	-
Actril (loxynil)	T	10 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-	-
Bentazon	T	500 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-	-
Bromoxynil	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-	-
Clopyralid	T	**0.02 µg/L**	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-	-
Dicamba	T	**0.02 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-	-
Dichlorprop	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-	-
Fluroxypyr	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-	-
Mecoprop	T	18 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-	-
Picloram	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-	-
Silvex	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-	-
Triclopyr	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-	-	-
Dinitrobenzene, p-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
1,3-Dinitrobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Dinitrotoluene, 2,4-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 0.5	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Dinitrotoluene, 2,6-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Nitrobenzene	T			µg/L	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
1,2-Dichlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
1,3-Dichlorobenzene	T	**2 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	< 2	< 2	< 3	-	-	-	-	< 2	-	-	-	-	-	-	-	< 2	-
1,4-Dichlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Trichlorobenzene	T	0.4 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	< 2	< 2	< 4	-	-	-	-	< 2	-	-	-	-	-	-	-	< 2	-
1,2,3-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
1,2,4-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Hexachlorobenzene	T	0.05 µg/l	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
2,3,4,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
2,3,5,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,5,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
2,4,5-Trichlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 0.5	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
2,4,6-Trichlorophenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 0.1	< 0.1	-	< 1	< 1	< 1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	-	< 0.1	-	< 1	-
2,4-Dichlorophenol	T	0.42 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 0.1	< 0.1	-	< 1	< 1	< 0.5	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	-	< 0.1	-	< 1	-
2,4-Dimethylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/L	< 0.1	< 0.1	-	< 1	< 1	< 1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.15**	-	< 0.1	-	< 0.1	-	< 1	-
2,6-Dichlorophenol	T	0.42 µg/L	*WFD England/Wales. 2015 - Saltwater Standards for 2,4-dichlorophenol*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.1	-	-	-
2,6-Dichlorophenol	T	0.42 µg/L	*WFD England/Wales. 2015 - Saltwater Standards for 2,4-dichlorophenol*	ug/L	< 0.1	< 0.1	-	-	-	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	-	-	-	-	-
2,6-Dimethylphenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 0.1	< 0.1	-	-	-	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	-	< 0.1	-	-	-
2-Chlorophenol	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
2-methylphenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 0.5	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
2-Nitrophenol	T			µg/L	-	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/4-Methylphenol (m/p-cresol)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	-	-	-	-	-	-	-	**13**	-

AECOM

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Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
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Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH11D	MS\BH11D	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH14	MS\BH14	MS\BH14
				Date	04/07/2022	21/09/2022	12/08/2021	12/10/2021	16/11/2021	11/04/2022	11/04/2022	07/07/2022	22/09/2022	13/12/2022	20/03/2023	21/06/2023	26/09/2023	27/09/2023	16/01/2024	23/10/2024	23/10/2024	10/08/2021	13/10/2021	16/11/2021
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	83	-	-	-	-	-	-	-	-	-	-	-	-	-	73	-
4-Chloro-3-methylphenol	T	40 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 0.1	< 0.1	-	< 1	< 1	< 0.5	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	-	< 0.1	-	< 1	-
4-Methylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/L	< 0.1	< 0.1	-	-	-	< 1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.2**	-	< 0.1	-	< 0.1	-	-	-
4-Nitrophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 10	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Pentachlorophenol	T	**0.4 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	< 1	< 1	< 1	-	-	< 0.02	-	< 1	-	-	-	-	-	-	-	< 1	-
Phenol	T	**7.7 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 0.1	< 0.1	-	< 1	< 1	< 1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	-	< 0.1	-	2.4	-
Total Monohydric Phenols (S) Corrected	T	**100 µg/L**	*Laboratory LOD used*	µg/L	-	-	< 100	**160**	**170**	-	-	-	-	-	-	-	-	-	-	-	-	< 100	< 100	< 100
Dissolved Organic Carbon	D			mg/L	9.7	11	-	-	-	5.9	-	6.6	4.7	7.7	8.3	8.4	7.5	-	8.9	-	-	-	-	-
Dissolved Organic Carbon	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.99	-	-	-
Total Organic Carbon	T			mg/L	-	-	8.2	6.8	6.1	-	-	-	-	-	-	-	-	-	-	-	-	7.6	14	5.9
Colour	N			none	-	-	-	-	-	-	-	-	-	-	-	-	-	clear	-	Clear	-	-	-	-
Density	N			g/cm3	-	-	-	-	-	-	1.002296	-	-	-	-	-	-	-	-	-	-	-	-	-
Electrical Conductivity (Lab)	T			µS/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4959.08	-	-	-
Electrical Conductivity (Lab)	T			uS/cm	1280	1290	-	-	-	5870	-	5020	35600	6620	5560	6280	5120	-	4790	-	-	-	-	-
pH	T			pH units	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.44	-	-	-
Solids, Suspended at 105 C	T			mg/L	-	-	-	-	-	-	-	-	-	-	7.5	9.5	20	-	5.5	-	-	-	-	-
Suspended solids (NEN-EN 872)	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	-
Alkalinity, Total (as CaCO3)	T			mg/L	-	-	-	-	-	-	-	-	-	-	150	150	160	-	< 10	-	-	-	-	-
Ammoniacal Nitrogen as N	T	**21 µg/l**	*Value for un-ionised ammonia, WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**4000**	**4300**	**2000**	**4500**	**5300**	**4700**	-	**4200**	**5400**	**4800**	**4700**	**6800**	**5400**	-	**5200**	-	**9661.2**	**790**	**7000**	**4800**
Ammoniacal Nitrogen as NH3	T			mg/L	4.8	5.2	2.4	5.4	6.4	5.7	-	5.1	6.6	5.8	5.7	8.3	6.6	-	6.3	-	11.7315	0.96	8.5	5.8
Carbonate	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1046878.6	-	-	-
Chloride	T			µg/L	-	200000	-	-	-	-	-	-	12000000	890000	1400000	1500000	1200000	-	1300000	-	-	-	-	-
Cyanide	D	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**18.06**	-	-	-
Cyanide	T	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**13**	**16**	**29**	**39**	< 0.1	< 0.1	-	**24**	0.5	< 0.1	**46**	**210**	< 0.1	-	**63**	-	-	**< 40**	**5.1**	**4.5**
Cyanide (free)	T	**1 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	0.4	0.5	**4.4**	**5.6**	< 0.1	**6.9**	-	**2.1**	< 0.1	**6.4**	**7.7**	**9.3**	**2.3**	-	**8.8**	-	< 0.1	< 20	0.2	< 0.1
Cyanide, Total Low Level	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanides-complex	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	-	-	-	-	-	-	-	-	-	-	**38**	**200**	< 0.1	-	**54**	-	**18.06**	-	-	-
Elemental Sulphur	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Elemental Sulphur	T			ug/L	-	-	-	-	-	-	-	-	-	-	< 84	170	< 84	-	< 84	-	-	-	-	-
Fluoride	D	**5000 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**21859.7**	-	-	-
Fluoride	T	**5000 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	2200	-	-	-	-	-	-	< 100	< 100	< 100	< 100	< 100	-	< 100	-	-	-	-	-
Hardness as CaCO3	T			mg/L	-	-	370	416	433	-	-	-	-	-	638	464	505	-	490	-	-	593	104	4.49
Ion balance	T			%	-	-	-	-	-	-	-	-	-	-	108	110	111	-	99	-	93.2043	-	-	-
Nitrate (as N)	T			mg/L	< 0.1	0.04	0.15	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	-	< 0.1	-	-	-
Nitrate (as NO3-)	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as NO3-)	T			µg/L	< 442.66	177.064	663.99	< 442.66	< 442.66	< 442.66	-	< 442.66	< 442.66	< 442.66	< 442.66	< 442.66	< 442.66	-	< 442.66	-	-	280	< 100	820
Nitrite	T			µg/L	< 114.954	< 98.532	< 114.954	44000	< 114.954	< 114.954	-	< 114.954	< 114.954	< 114.954	< 114.954	< 114.954	< 114.954	-	< 114.954	-	-	< 100	2700	1800
Nitrite (as N)	T			mg/L	< 0.035	< 0.03	< 0.035	-	< 0.035	< 0.035	-	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	-	< 0.035	-	< 0.035	-	-	-
Nitrite (as N)	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ortho Phosphate as P	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.121	-	-	-
Phosphate (as P)	T			mg/L	-	0.16	-	-	-	-	-	-	< 0.01	0.34	-	-	-	-	-	-	-	-	-	-
Phosphorous, Total Orthophosphate (As P)	T			mg/L	-	-	-	-	-	-	-	-	-	-	0.07	0.13	0.13	-	0.15	-	-	-	-	-
Silica as SiO2	T			mg/L	-	-	-	-	-	-	-	-	-	-	6.1	2.2	1.7	-	7.8	-	-	-	-	-
Sulphate As SO4	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate As SO4	T			µg/L	-	-	280000	1100000	350000	-	-	-	-	-	390000	440000	550000	-	420000	-	-	540000	130000	400000
Sulphide	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.0546	-	-	-
Sulphide	T			ug/L	-	-	-	-	-	-	-	-	-	-	90	21	14	-	< 10	-	-	-	-	-
Sulphur as S	T			mg/L	-	-	-	-	-	-	-	-	-	-	170	180	160	-	150	-	-	180	-	-
Sulphur (Free)	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 84	-	-	-
Thiocyanate	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1384.48	-	-	-
Thiocyanate	T			µg/L	< 20	< 20	-	9300	7400	< 20	-	7700	37	8300	940	9200	2900	-	12000	-	-	170	200	210
Total Hardness	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	387.1962	-	-	-
Sulphur	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 10000	-	-	-
Aluminium	D	**15 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	**70**	-	-	-	-	-	-	< 10	11	< 10	**15**	< 10	-	< 10	-	< 10	-	-	-
Antimony	D			µg/L	-	-	-	-	-	-	-	-	-	-	0.23	< 0.17	< 0.17	-	< 0.17	-	0.2285	-	-	-
Arsenic	D	**25 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	4.5	5.5	10	16	10	6.4	-	6	1.8	6	6	6.3	6.2	-	6	-	5.734	24	**61**	2.5
Barium	D			µg/L	-	-	-	-	-	-	-	-	-	-	100	130	94	-	70	-	82.5283	-	-	-
Beryllium	D			µg/L	< 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
Boron	D	7000 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	620	670	360	630	620	780	-	630	870	820	730	780	670	-	620	-	698.1392	17	59	< 12
Cadmium	D	**0.2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.03	0.04	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	-	< 0.03	0.08	0.08	< 0.03
Calcium	D			µg/L	-	-	-	-	-	-	-	-	-	-	94000	72000	98000	-	79000	-	-	-	-	-
Trivalent Chromium (CrIII)	D			µg/L	1.2	1.4	< 1	< 1	< 1	2	-	2.5	1.1	1	2	< 1	< 1	-	< 1	-	< 1	< 1	< 1	< 1
Hexavalent Chromium (CrVI)	T	**0.6 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 7	< 7	< 7	< 7	< 7	< 7	-	< 7	< 7	< 7	< 7	< 7	< 7	-	< 7	-	< 7	< 7	< 7	< 7
Copper	D	**3.76 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	1.4	1.1	< 0.4	< 0.4	1.2	0.8	-	< 0.4	1.6	< 0.4	< 0.4	0.4	< 0.4	-	< 0.4	-	< 0.4	0.7	1	0.8
Iron	D	**1000 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	52	130	91	350	890	41	-	34	24	39	160	370	39	-	44	-	198.3889	16	230	40
Lead	D	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	**15**	**17**	< 0.09	< 0.09	0.1	< 0.09	-	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	-	< 0.09	-	< 0.09	0.19	**1.6**	0.26
Magnesium	D			µg/L	-	-	-	-	-	-	-	-	-	-	98000	69000	64000	-	71000	-	-	-	-	-
Manganese	D			µg/L	-	210	-	-	-	-	-	-	2700	120	120	120	110	-	120	-	94.716	-	-	-
Mercury	D	**0.07 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.01	0.02	0.03	0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01	-	< 0.01	-	< 0.01	**0.41**	**0.19**	< 0.01

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

					Location	MS\BH11D	MS\BH11D	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH14	MS\BH14	MS\BH14
					Date	04/07/2022	21/09/2022	12/08/2021	12/10/2021	16/11/2021	11/04/2022	11/04/2022	07/07/2022	22/09/2022	13/12/2022	20/03/2023	21/06/2023	26/09/2023	27/09/2023	16/01/2024	23/10/2024	23/10/2024	10/08/2021	13/10/2021	16/11/2021
					Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
					Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	83	-	-	-	-	-	-	-	-	-	-	-	-	-	73	-
Molybdenum	D			µg/L	-	30	-	-	-	-	-	-	3.1	20	18	14	18	-	17	-	16.58	-	-	-
Nickel	D	**8.6 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	**8.9**	1.8	0.9	1	1.3	4.2	-	2.4	**17**	1.9	< 0.5	0.6	0.7	-	< 0.5	-	0.5015	5.2	6.3	< 0.5
Phosphorus	D	See source document	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	190	-	-	-	-	-	-	< 18	65	-	-	-	-	-	-	176.0757	-	-	-
Potassium	D			µg/L	-	-	-	-	-	-	-	-	-	-	79000	56000	69000	-	65000	-	-	-	-	-
Selenium	D			µg/L	0.27	0.35	0.6	0.27	< 0.25	0.28	-	0.38	0.51	0.36	0.27	< 0.25	< 0.25	-	0.31	-	< 0.25	3.2	1.6	< 0.25
Sodium	D			µg/L	-	-	-	-	-	-	-	-	-	-	720000	850000	700000	-	790000	-	-	-	-	-
Tin	D	10 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	1.2	-	-	-	-	-	-	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	-	0.4	-	< 0.4	-	-	-
Titanium	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.3	-	-	-
Titanium	D			ug/L	-	-	-	-	-	-	-	-	-	-	< 0.3	0.4	< 0.3	-	< 0.3	-	-	-	-	-
Vanadium	D	**100 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	7.7	9.9	-	1.3	2	3	-	1.9	< 0.6	1.6	0.8	2.3	1.3	-	1.7	-	1.2263	63	33	< 0.6
Zinc	D	**6.8 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**23**	**31**	6.3	3.8	**8.8**	**48**	-	**25**	**8.3**	**40**	**27**	**24**	**34**	-	**33**	-	**94.2775**	< 1.3	**17**	3
2-chloronaphthalene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
2-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
3-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
4-bromophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
4-Chlorophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
4-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 0.5	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Aniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Azobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 0.5	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Benzyl Alcohol	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Benzyl Butyl Phthalate	T	0.75 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
bis(2-Chloroethoxy)methane	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 0.5	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
bis(2-Chloroethyl)ether	T			µg/L	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroisopropyl)ether	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Bis(2-Ethylhexyl) Adipate	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Bis(2-ethylhexyl) phthalate	T	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	< 1	< 1	< 5	-	-	-	-	< 1	-	-	-	-	-	-	-	1.1	-
Carbazole	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 0.5	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Chloroaniline, p-	T			µg/L	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl Phthalate	T	200 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Dimethyl Phthalate	T	800 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Di-n-butyl phthalate	T	8 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	2	1.2	< 1.5	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Di-n-octyl phthalate	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Diphenylamine	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Hexachlorobutadiene	T	**0.6 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Hexachlorocyclopentadiene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Hexachloroethane	T			µg/L	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	T			µg/L	-	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ISOPROPYLTOLUENE, p-	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Methylnaphthalene, 1-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Methylnaphthalene, 2-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
N-Nitrosodi-n-Propylamine	T			µg/L	-	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	T			µg/L	< 0.01	< 0.01	0.06	< 1	< 1	< 1	-	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	< 0.01	2.3	< 1	0.157
Acenaphthylene	T			µg/L	< 0.01	< 0.01	< 0.01	< 1	< 1	< 0.5	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	< 0.01	0.02	< 1	0.013
Anthracene	T	**0.1 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.01	< 0.01	< 0.01	< 1	< 1	< 0.5	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	< 0.01	**0.19**	< 1	< 0.013
Benzo(a)anthracene	T			µg/L	< 0.01	< 0.01	< 0.01	< 1	< 1	< 0.5	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	< 0.01	0.02	< 1	< 0.015
Benzo(a)pyrene	T	**0.00017 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.01	< 0.01	< 0.01	< 1	< 1	< 1	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	< 0.01	< 0.01	< 1	< 0.016
Benzo(b)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.01	< 0.01	< 0.01	< 1	< 1	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	< 0.01	< 0.01	< 1	< 0.01
Benzo(b+k)fluoranthene	T	**0.017 µg/L**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal for benzo(b)fluoranthene/benzo(k)fluoranthene*	µg/L	< 0.02	< 0.02	< 0.02	< 0.018	< 0.018	< 1	-	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	-	-	< 0.02	< 0.018	< 0.018
Benzo(g,h,i)perylene	T	**0.00082 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.01	< 0.01	< 0.01	< 1	< 1	< 0.5	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	< 0.01	**0.01**	< 1	< 0.011
Benzo(g,h,i)perylene + Indeno(1,2,3-c,d)pyrene	T			µg/L	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022	< 1.5	-	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	-	-	0.02	< 0.022	< 0.022
Benzo(k)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.01	< 0.01	< 0.01	< 1	< 1	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	< 0.01	< 0.01	< 1	< 0.01
Chrysene	T			µg/L	< 0.01	< 0.01	< 0.01	< 1	< 1	< 0.5	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	< 0.01	0.02	< 1	< 0.011
Dibenz(a,h)anthracene	T			µg/L	< 0.01	< 0.01	< 0.01	< 1	< 1	< 0.5	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	< 0.01	0.01	< 1	< 0.01
Fluoranthene	T	**0.0063 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.01	< 0.01	< 0.01	< 1	< 1	< 0.5	-	< 0.01	**0.02**	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	< 0.01	**0.24**	**< 1**	**0.266**
Fluorene	T			µg/L	< 0.01	< 0.01	0.02	< 1	< 1	< 0.5	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	< 0.01	0.52	< 1	0.026
Indeno(1,2,3-c,d)pyrene	T	Refer to result for benzo(a)pyrene as indicative of overall PAH risk	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 0.01	< 0.01	< 0.01	< 1	< 1	< 1	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	< 0.01	< 0.01	< 1	< 0.011
Naphthalene	T	**2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	0.08	0.1	0.1	< 1	< 1	< 2	-	0.08	0.13	0.05	0.05	0.05	< 0.05	-	0.05	-	< 0.05	0.65	< 1	< 0.1
Phenanthrene	T			µg/L	0.03	0.04	< 0.01	< 1	< 1	< 0.5	-	< 0.01	0.02	0.02	0.01	< 0.01	0.02	-	0.01	-	< 0.01	2.6	< 1	< 0.011
Pyrene	T			µg/L	0.02	0.01	0.01	< 1	< 1	< 0.5	-	< 0.01	0.02	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	0.0126	0.14	< 1	0.168
Benzo(a)pyrene (surrogate marker for PAH mixture)	T			µg/L	< 0.01	< 0.01	< 0.01	< 0.016	< 0.016	< 1	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	-	< 0.01	< 0.016	< 0.016
PAH (Sum of 4)	T			µg/L	< 0.04	< 0.04	< 0.04	< 0.042	< 0.042	< 1.5	-	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	-	< 0.04	-	-	0.04	< 0.042	< 0.042
PAH (Sum of 16)	T			µg/L	< 0.2	< 0.2	0.2	< 0.195	< 0.195	< 0.2	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	-	< 0.2	-	-	6.8	1.645	0.63
Total PAH	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.2	-	-	-
1,1,1,2-Tetrachloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	-	-	< 1	< 1	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
1,1,2,2-Tetrachloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH11D	MS\BH11D	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH14	MS\BH14	MS\BH14
				Date	04/07/2022	21/09/2022	12/08/2021	12/10/2021	16/11/2021	11/04/2022	11/04/2022	07/07/2022	22/09/2022	13/12/2022	20/03/2023	21/06/2023	26/09/2023	27/09/2023	16/01/2024	23/10/2024	23/10/2024	10/08/2021	13/10/2021	16/11/2021
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73	-
1,1,2,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 4	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	-	-	< 1	< 1	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
1,1-Dichloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	T	**1 µg/L**	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
1,1-Dichloroethene	T	**1 µg/l**	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	T	1 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
1,1-dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
1,2,3-trichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-trichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
1,2,4-Trimethylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
1,2-dibromo-3-chloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-dibromo-3-chloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
1,2-Dibromoethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	-	-	< 1	< 1	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
1,2-Dichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 2	< 2	< 6	-	-	-	-	< 2	-	-	-	-	-	-	-	< 2	-
1,2-Dichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
1,3,5-Trimethylbenzene (Mesitylene)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene (Mesitylene)	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
1,3-Dichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
1,3-Dichloropropene	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	T	**2 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	T	2 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 2	< 2	< 1	-	-	-	-	< 2	-	-	-	-	-	-	-	< 2	-
2-chlorotoluene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
4-chlorotoluene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1	< 1
Bromobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Bromodichloromethane	T	**4 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	T	4 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 4	< 4	< 2	-	-	-	-	< 4	-	-	-	-	-	-	-	< 4	-
Bromoform	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Bromomethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	-	-	< 1	< 1	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 4	< 4	< 2	-	-	-	-	< 4	-	-	-	-	-	-	-	< 4	-
Chloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Chloroform	T	**2.5 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	T	2.5 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	-	-	< 1	< 1	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Chloromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	T	**1 µg/L**	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
cis-1,2-dichloroethene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
cis-1,3-Dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Dibromochloromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Dibromomethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	-	-	< 27	< 27	< 3	-	-	-	-	< 27	-	-	-	-	-	-	-	< 27	-
Ethylbenzene	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
Ethylbenzene	T	**20 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1	< 1
Isopropylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH11D	MS\BH11D	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH14	MS\BH14	MS\BH14
				Date	04/07/2022	21/09/2022	12/08/2021	12/10/2021	16/11/2021	11/04/2022	11/04/2022	07/07/2022	22/09/2022	13/12/2022	20/03/2023	21/06/2023	26/09/2023	27/09/2023	16/01/2024	23/10/2024	23/10/2024	10/08/2021	13/10/2021	16/11/2021
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73	-
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	-	-	< 1	< 1	< 1	< 0.1	-	-	-	-	< 1	-	-	-	-	-	-	< 1	< 1	< 1
n-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
n-Propylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Propylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
sec-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
sec-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	-	-	< 1	< 1	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
tert-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
tert-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	ug/L	< 1	< 1	< 1	< 1	< 1	< 5	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1	< 1
trans-1,2-Dichloroethene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
trans-1,3-Dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Trichlorofluoromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	-	-	-	< 1	< 1	< 0.1	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
m-& p-Xylenes	T	**2 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m-& p-Xylenes	T	2 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 2	< 2	< 2	-	-	-	-	< 2	-	-	-	-	-	-	-	< 2	-
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	< 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	-	-	< 1	< 1	< 1
o-Xylene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
o-Xylene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	< 1	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	-
Sum of Trihalomethanes	T	7 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 7	< 7	< 8	-	-	-	-	< 7	-	-	-	-	-	-	-	< 7	-
Sum of Tetrachloroethene + Trichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 2	< 2	< 6	-	-	-	-	< 2	-	-	-	-	-	-	-	< 2	-
Volatile TIC	T			none	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH >C5-C10	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH >C10-C40	T			µg/L	-	-	440	100	< 10	-	-	-	-	-	-	-	-	-	-	-	-	53	< 10	120
Aliphatics >C5-C6	T			µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	28	-	9.3	5.6	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatics >C5-C35	T			µg/L	< 10	< 10	< 10	150	< 10	29	-	< 10	13	< 10	-	-	-	-	-	-	-	< 10	< 10	< 10
Aliphatics >C6-C8	T			µg/L	< 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
Aliphatics >C8-C10	T			µg/L	< 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
Aliphatics >C10-C12	T			µg/L	< 1	< 1	< 1	10	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	-	< 1	< 1	< 1	< 1
Aliphatics >C10-C44	T			µg/L	-	-	-	-	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	-	-	-
Aliphatics >C12-C16	T			µg/L	< 1	< 1	< 1	15	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	-	< 1	< 1	< 1	< 1
Aliphatics >C16-C21	T			µg/L	< 1	< 1	< 1	80	< 1	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	-	< 1	< 1	< 1	< 1
Aliphatics >C16-C35	T			µg/L	< 2	< 2	< 2	129	< 2	< 2	-	< 2	8.1	< 2	< 2	< 2	< 2	-	< 2	-	-	< 2	< 2	< 2
Aliphatics >C21-C35	T			µg/L	< 1	< 1	< 1	49	< 1	< 1	-	< 1	7.1	< 1	< 1	< 1	< 1	-	< 1	-	< 1	< 1	< 1	< 1
Aliphatics >C35-C44	T			µg/L	-	-	-	-	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	-	-	-
Aromatics >C5-C7	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 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
Aromatics >C5-C35	T			µg/L	< 10	< 10	< 10	50	< 10	< 10	-	42	< 10	< 10	-	-	-	-	-	-	-	< 10	< 10	< 10
Aromatics >C7-C8	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 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
Aromatics >C8-C10	T			µg/L	< 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
Aromatics >C10-C12	T			µg/L	< 1	< 1	< 1	2.7	< 1	< 1	-	2.6	< 1	< 1	< 1	< 1	< 1	-	< 1	-	< 1	< 1	< 1	< 1
Aromatics >C10-C44	T			µg/L	-	-	-	-	-	-	-	-	-	-	< 1	< 1	46	-	< 1	-	< 1	-	-	-
Aromatics >C12-C16	T			µg/L	< 1	< 1	< 1	7.1	< 1	< 1	-	2.9	2.9	< 1	< 1	< 1	< 1	-	< 1	-	< 1	< 1	< 1	< 1
Aromatics >C16-C21	T			µg/L	< 1	< 1	< 1	33	< 1	< 1	-	6.6	< 1	< 1	< 1	< 1	< 1	-	< 1	-	< 1	< 1	< 1	< 1
Aromatics >C21-C35	T			µg/L	2	< 1	< 1	7.5	< 1	< 1	-	30	< 1	< 1	< 1	< 1	46	-	< 1	-	< 1	< 1	< 1	< 1
Aromatics >C35-C44	T			µg/L	-	-	-	-	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	-	-	-
Aliphatics & Aromatics >C5-C35	T			µg/L	< 10	< 10	< 10	200	< 10	29	-	52	17	< 10	-	-	-	-	-	-	-	< 10	< 10	< 10
Aliphatics & Aromatics >C10-C44	T			µg/L	-	-	-	-	-	-	-	-	-	-	< 1	< 1	46	-	< 1	-	< 1	-	-	-

AECOM

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Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

			Location	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D
			Date	11/04/2022	11/04/2022	07/07/2022	22/09/2022	14/12/2022	20/03/2023	20/06/2023	27/09/2023	27/09/2023	17/01/2024	17/07/2024	21/10/2024	21/10/2024	13/08/2021	13/10/2021	16/11/2021	12/04/2022	12/04/2022	07/07/2022	22/09/2022
			Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	77	-	-	-	-	-
SVOC TICs	T			µg/L	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Dibutyltin	T			µg/L	-	-	-	-	-	-	-	-	-	-	< 1	< 1	-	-	-	-	-	-	-	-	-
Tributyltin	T	0.0002 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	< 1	-	-	-	-	-	-	-	-	-
Triphenyltin	T	0.008 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	< 1	-	-	-	-	-	-	-	-	-
Dibenzofuran	T	1 µg/L	*Laboratory LOD used*	µg/L	< 0.5	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 0.5	-	-	-	-
PCB 12	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1
PCB 52	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.2
PCB 77	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.3
PCB 81	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.2
PCB 101	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.3
PCB 105	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.2
PCB 114	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.3
PCB 126	T	0.5 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 0.5	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.5
PCB 138	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.2
PCB 153	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.2
PCB 156	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.3
PCB 157	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.2
PCB 167	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.3
PCB 169	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.2
PCB 180	T	0.2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 0.2	< 0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.2
PCB 189	T	0.3 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.3
PCB Coelute 28/31	T	0.3 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.3
PCB Coelute 118/123	T	0.6 µg/L	*Laboratory LOD used*	ug/L	-	-	-	< 0.6	< 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.6
Total 7 PCB	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1
2,3,6-TBA	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-T	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-D	T	0.3 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-DB	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl-4-Chlorophenoxy Butanoic Acid	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	T	80 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Actril (loxynil)	T	10 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bentazon	T	500 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoxynil	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Clopyralid	T	**0.02 µg/L**	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dicamba	T	**0.02 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorprop	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluroxypyr	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mecoprop	T	18 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Picloram	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silvex	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triclopyr	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dinitrobenzene, p-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	-	-	-	-	-
1,3-Dinitrobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	-	-	-	-	-
Dinitrotoluene, 2,4-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 0.5	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 0.5	-	-	-	-
Dinitrotoluene, 2,6-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 1	-	-	-	-
Nitrobenzene	T			µg/L	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-
Chlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 2	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 2	-	-	-	-
1,2-Dichlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 3	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 3	-	-	-	-
1,3-Dichlorobenzene	T	**2 µg/L**	*Laboratory LOD used*	µg/L	< 3	-	-	-	-	< 2	-	-	-	-	< 2	-	-	-	< 2	-	< 3	-	-	-	-
1,4-Dichlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 3	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 3	-	-	-	-
Trichlorobenzene	T	0.4 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 4	-	-	-	-	< 2	-	-	-	-	-	-	-	-	< 2	-	< 4	-	-	-	-
1,2,3-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 3	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 3	-	-	-	-
1,2,4-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 3	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 3	-	-	-	-
Hexachlorobenzene	T	0.05 µg/l	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 1	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 1	-	-	-	-
2,3,4,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	-	-	-	-	-
2,3,5,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-
2,3,5,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-
2,4,5-Trichlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 0.5	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 0.5	-	-	-	-
2,4,6-Trichlorophenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 1	< 0.1	-	-	< 1	-	< 1	-	< 0.1	< 0.1
2,4-Dichlorophenol	T	0.42 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 0.5	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 1	< 0.1	-	-	< 1	-	< 0.5	-	< 0.1	< 0.1
2,4-Dimethylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/L	< 1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 1	< 0.1	-	-	< 1	-	< 1	-	< 0.1	< 0.1
2,6-Dichlorophenol	T	0.42 µg/L	*WFD England/Wales. 2015 - Saltwater Standards for 2,4-dichlorophenol*	µg/L	-	-	-	-	-	-	-	-	-	-	< 0.1	< 0.1	-	-	-	-	-	-	-	-	-
2,6-Dichlorophenol	T	0.42 µg/L	*WFD England/Wales. 2015 - Saltwater Standards for 2,4-dichlorophenol*	ug/L	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	-	-	-	-	-	-	< 0.1	-	< 0.1	< 0.1
2,6-Dimethylphenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 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-Chlorophenol	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 1	-	-	-	-
2-methylphenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 0.5	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 0.5	-	-	-	-
2-Nitrophenol	T			µg/L	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.5	-	-	-	-
3/4-Methylphenol (m/p-cresol)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	**3.4**	-	-	-	-	< 1	-	-	-	< 1	-	-	-	-	-	-

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D
				Date	11/04/2022	11/04/2022	07/07/2022	22/09/2022	14/12/2022	20/03/2023	20/06/2023	27/09/2023	27/09/2023	17/01/2024	17/07/2024	21/10/2024	21/10/2024	13/08/2021	13/10/2021	16/11/2021	12/04/2022	12/04/2022	07/07/2022	22/09/2022
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	77	-	-	-	-	-
4-Chloro-3-methylphenol	T	40 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 0.5	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 1	< 0.1	-	-	< 1	-	< 0.5	-	< 0.1	< 0.1
4-Methylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/L	**3**	-	< 0.1	< 0.1	< 0.1	**0.46**	< 0.1	< 0.1	-	< 0.1	< 0.1	**0.2**	-	-	-	-	< 1	-	< 0.1	< 0.1
4-Nitrophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 10	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 10	-	-	-
Pentachlorophenol	T	**0.4 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 1	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 1	-	-	-
Phenol	T	**7.7 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 1	< 0.1	-	-	< 1	-	< 1	-	< 0.1	< 0.1
Total Monohydric Phenols (S) Corrected	T	**100 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 100	< 100	< 100	-	-	-	-
Dissolved Organic Carbon	D			mg/L	8.7	-	7.9	6.1	7.7	15	14	13	-	10	-	6.7	-	-	-	-	3.3	-	6.5	4.3
Dissolved Organic Carbon	T			mg/L	-	-	-	-	-	-	-	-	-	-	6.77	-	-	-	-	-	-	-	-	-
Total Organic Carbon	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	4.6	3	100	-	-	-	-
Colour	N			none	-	-	-	-	-	-	-	-	green yellow	-	-	-	Clear	-	-	-	-	-	-	-
Density	N			g/cm3	-	0.999937	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.000518	-	-
Electrical Conductivity (Lab)	T			µS/cm	-	-	-	-	-	-	-	-	-	-	1651.42	1590	-	-	-	-	-	-	-	-
Electrical Conductivity (Lab)	T			uS/cm	767	-	1500	1410	1260	937	699	787	-	695	-	-	-	-	-	-	-	1970	-	1890	1930
pH	T			pH units	-	-	-	-	-	-	-	-	-	-	11.04	-	-	-	-	-	-	-	-	-
Solids, Suspended at 105 C	T			mg/L	-	-	-	-	-	6	20	11	-	20	-	7.5	-	-	-	-	-	-	-	-
Suspended solids (NEN-EN 872)	T			mg/L	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	T			mg/L	-	-	-	-	-	170	170	160	-	130	85.86	-	-	-	-	-	-	-	-	-
Ammoniacal Nitrogen as N	T	**21 µg/l**	*Value for un-ionised ammonia, WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**6500**	-	**3400**	**39**	**4100**	**5100**	**5600**	**4700**	-	**5300**	**2166.4**	**4000**	-	**1300**	**2100**	**1900**	**2000**	-	**1700**	**2300**
Ammoniacal Nitrogen as NH3	T			mg/L	7.9	-	4.2	0.047	5	6.1	6.8	5.8	-	6.4	2.6306	4.8	-	1.6	2.6	2.2	2.5	-	2.1	2.7
Carbonate	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	86	-	-	-	-	-	-	-	-
Chloride	D			µg/L	-	-	-	-	-	-	-	-	-	-	48695.9	-	-	-	-	-	-	-	-	-
Chloride	T			µg/L	-	-	-	69000	65000	49000	100000	45000	-	50000	-	37000	-	-	-	-	-	-	-	76000
Cyanide	D	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	-	-	**9.4**	-	-	-	-	-	-	-	-	-
Cyanide	T	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**5.5**	-	**5.5**	**5.4**	**7.7**	**7.6**	**8.1**	**9.6**	-	**11**	-	-	-	**< 40**	**15**	**11**	**13**	-	**6.2**	**10**
Cyanide (free)	T	**1 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	0.3	-	< 0.1	0.1	0.4	0.6	0.9	0.6	-	0.6	0.2	0.5	-	< 20	0.5	0.2	0.7	-	< 0.1	< 0.1
Cyanide, Total Low Level	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	-	-	-	-	-	-	-	-	-	-	-	**6.5**	-	-	-	-	-	-	-	-
Cyanides-complex	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	-	-	-	-	-	**7**	**7.2**	**9**	-	**11**	-	**6**	-	-	-	-	-	-	-	-
Elemental Sulphur	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	< 84	-	-	-	-	-	-	-	-
Elemental Sulphur	T			ug/L	-	-	-	-	-	< 84	< 84	< 84	-	< 84	-	-	-	-	-	-	-	-	-	-
Fluoride	D	**5000 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	544.2	-	-	-	-	-	-	-	-	-
Fluoride	T	**5000 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	< 100	810	550	< 100	130	-	150	-	640	-	-	-	-	-	-	-	< 100
Hardness as CaCO3	T			mg/L	-	-	-	-	-	154	100	156	-	71.9	-	563	-	1040	1010	2230	-	-	-	-
Ion balance	T			%	-	-	-	-	-	120	117	98	-	111	89.7103	105	-	-	-	-	-	-	-	-
Nitrate (as N)	T			mg/L	< 0.1	-	< 0.1	< 0.1	0.03	< 0.1	< 0.1	< 0.1	-	< 0.1	0.4405	0.54	-	0.39	-	-	< 0.1	-	< 0.1	< 0.1
Nitrate (as NO3-)	D			µg/L	-	-	-	-	-	-	-	-	-	-	1595.6	-	-	-	-	-	-	-	-	-
Nitrate (as NO3-)	T			µg/L	< 442.66	-	< 442.66	< 442.66	132.798	490	2300	< 442.66	-	< 442.66	-	340	-	1726.374	190	< 100	< 442.66	-	< 442.66	< 442.66
Nitrite	T			µg/L	< 114.954	-	< 114.954	< 114.954	< 98.532	< 114.954	< 114.954	< 114.954	-	< 114.954	-	-	-	< 114.954	3700	420	< 114.954	-	< 114.954	< 114.954
Nitrite (as N)	T			mg/L	< 0.035	-	< 0.035	< 0.035	< 0.03	< 0.035	< 0.035	< 0.035	-	< 0.035	0.1517	0.099	-	< 0.035	-	-	< 0.035	-	< 0.035	< 0.035
Nitrite (as N)	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ortho Phosphate as P	T			mg/L	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-	-
Phosphate (as P)	T			mg/L	-	-	-	< 0.01	0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01
Phosphorous, Total Orthophosphate (As P)	T			mg/L	-	-	-	-	-	0.02	0.16	0.02	-	0.43	-	< 0.01	-	-	-	-	-	-	-	-
Silica as SiO2	T			mg/L	-	-	-	-	-	26	6.8	6.1	-	23	18.857	-	-	-	-	-	-	-	-	-
Sulphate As SO4	D			µg/L	-	-	-	-	-	-	-	-	-	-	551633	-	-	-	-	-	-	-	-	-
Sulphate As SO4	T			µg/L	-	-	-	-	-	170000	160000	130000	-	120000	-	-	-	130000	1100000	1300000	-	-	-	-
Sulphide	T			µg/L	-	-	-	-	-	-	-	-	-	-	288.8797	150	-	-	-	-	-	-	-	-
Sulphide	T			ug/L	-	-	-	-	-	2600	81	600	-	1100	-	-	-	-	-	-	-	-	-	-
Sulphur as S	T			mg/L	-	-	-	-	-	73	77	79	-	230	-	240	-	-	-	-	-	-	-	-
Sulphur (Free)	T			µg/L	-	-	-	-	-	-	-	-	-	-	< 84	-	-	-	-	-	-	-	-	-
Thiocyanate	D			µg/L	-	-	-	-	-	-	-	-	-	-	132.33	-	-	-	-	-	-	-	-	-
Thiocyanate	T			µg/L	190	-	180	230	190	210	260	220	-	250	-	120	-	170	270	280	140	-	260	260
Total Hardness	T			mg/L	-	-	-	-	-	-	-	-	-	-	610.1856	-	-	-	-	-	-	-	-	-
Sulphur	T			µg/L	-	-	-	-	-	-	-	-	-	-	229020	-	-	-	-	-	-	-	-	-
Aluminium	D	**15 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	**370**	**280**	**360**	**150**	**240**	-	**88**	**243.5206**	**270**	-	-	-	-	-	-	-	**41**
Antimony	D			µg/L	-	-	-	-	-	0.91	0.44	0.51	-	< 0.17	0.64	0.45	-	-	-	-	-	-	-	-
Arsenic	D	**25 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	21	-	21	18	18	**32**	**34**	**51**	-	**41**	6.2202	16	-	11	10	8.2	10	-	11	15
Barium	D			µg/L	-	-	-	-	-	53	100	31	-	57	113.0576	120	-	-	-	-	-	-	-	-
Beryllium	D			µg/L	< 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
Boron	D	7000 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	56	-	32	37	190	54	67	46	-	53	44.0467	47	-	76	100	64	85	-	88	88
Cadmium	D	**0.2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	0.04	-	0.09	0.1	**0.22**	0.06	0.13	0.06	-	< 0.03	< 0.03	< 0.03	-	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	< 0.03
Calcium	D			µg/L	-	-	-	-	-	61000	35000	62000	-	29000	243881.1	-	-	-	-	-	-	-	-	-
Trivalent Chromium (CrIII)	D			µg/L	< 1	-	1.4	5.4	< 1	< 1	< 1	< 1	-	< 1	< 1	6.6	-	< 1	< 1	< 1	< 1	-	< 1	6.7
Hexavalent Chromium (CrVI)	T	**0.6 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 7	-	< 7	< 7	< 7	< 7	< 7	< 7	-	< 7	< 7	< 7	-	< 7	< 7	< 7	< 7	-	< 7	< 7
Copper	D	**3.76 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 0.4	-	0.6	1.6	2.9	0.6	1.2	0.6	-	< 0.4	0.8425	0.8	-	< 0.4	< 0.4	< 0.4	< 0.4	-	< 0.4	0.6
Iron	D	**1000 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	170	-	18	18	11	250	270	260	-	220	9.9153	66	-	8.6	11	11	12	-	19	18
Lead	D	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	**3**	-	0.79	0.69	0.2	**4.2**	**12**	**6.8**	-	**3.1**	< 0.09	< 0.09	-	< 0.09	< 0.09	< 0.09	< 0.09	-	0.15	< 0.09
Magnesium	D			µg/L	-	-	-	-	-	170	3000	60	-	90	294.9	-	-	-	-	-	-	-	-	-
Manganese	D			µg/L	-	-	-	1.2	1.5	3	15	3.6	-	4.5	10.2446	4.1	-	-	-	-	-	-	-	4.6
Mercury	D	**0.07 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	**0.2**	-	**0.44**	**0.45**	**0.37**	**0.22**	**0.15**	**0.17**	-	**0.07**	**0.2365**	**0.26**	-	**0.1**	**0.16**	**0.17**	**0.15**	-	**0.15**	**0.16**

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D
				Date	11/04/2022	11/04/2022	07/07/2022	22/09/2022	14/12/2022	20/03/2023	20/06/2023	27/09/2023	27/09/2023	17/01/2024	17/07/2024	21/10/2024	21/10/2024	13/08/2021	13/10/2021	16/11/2021	12/04/2022	12/04/2022	07/07/2022	22/09/2022
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	77	-	-	-	-	-
Molybdenum	D			µg/L	-	-	-	190	440	240	280	240	-	81	103.4706	170	-	-	-	-	-	-	-	36
Nickel	D	**8.6 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	5	-	5.6	5.1	6.6	3.5	5.9	6	-	3.7	3.2808	5.2	-	0.7	< 0.5	0.6	< 0.5	-	1.1	2.8
Phosphorus	D	See source document	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	49	68	-	-	-	-	-	30.5966	56	-	-	-	-	-	-	-	29
Potassium	D			µg/L	-	-	-	-	-	51000	83000	62000	-	69000	82595.3	-	-	-	-	-	-	-	-	-
Selenium	D			µg/L	2	-	2.2	4	4.2	2.6	0.73	1.3	-	1	4.4517	4.7	-	9.2	5.1	2	4.9	-	4.1	3.2
Sodium	D			µg/L	-	-	-	-	-	46000	79000	51000	-	51000	39109.2	-	-	-	-	-	-	-	-	-
Tin	D	10 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	< 0.4	0.5	< 0.4	< 0.4	< 0.4	-	0.8	< 0.4	< 0.4	-	-	-	-	-	-	-	< 0.4
Titanium	D			µg/L	-	-	-	-	-	-	-	-	-	-	< 0.3	< 0.3	-	-	-	-	-	-	-	-
Titanium	D			ug/L	-	-	-	-	-	4.6	6	4.4	-	3.7	-	-	-	-	-	-	-	-	-	-
Vanadium	D	**100 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	47	-	19	39	**190**	78	76	88	-	26	6.985	62	-	1.1	< 0.6	0.6	0.9	-	0.7	0.8
Zinc	D	**6.8 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**7.7**	-	3.3	2.5	**11**	5.3	**21**	**200**	-	6.6	1.6725	**16**	-	4.4	< 1.3	< 1.3	4.6	-	2.5	**16**
2-chloronaphthalene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 1	-	-	-
2-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 1	-	-	-
3-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 1	-	-	-
4-bromophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 1	-	-	-
4-Chlorophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 1	-	-	-
4-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 0.5	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 0.5	-	-	-
Aniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	-	-	-	-
Azobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 0.5	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 0.5	-	-	-
Benzyl Alcohol	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	-	-	-	-
Benzyl Butyl Phthalate	T	0.75 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 1	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 1	-	-	-
bis(2-Chloroethoxy)methane	T	1 µg/L	*Laboratory LOD used*	µg/L	< 0.5	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 0.5	-	-	-
bis(2-Chloroethyl)ether	T			µg/L	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
bis(2-Chloroisopropyl)ether	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	-	-	-	-
Bis(2-Ethylhexyl) Adipate	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	-	-	-	-
Bis(2-ethylhexyl) phthalate	T	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 15	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 5	-	-	-
Carbazole	T	1 µg/L	*Laboratory LOD used*	µg/L	< 0.5	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 0.5	-	-	-
Chloroaniline, p-	T			µg/L	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
Diethyl Phthalate	T	200 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 1	-	-	-
Dimethyl Phthalate	T	800 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 1	-	-	-
Di-n-butyl phthalate	T	8 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1.5	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 1.5	-	-	-
Di-n-octyl phthalate	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 1	-	-	-
Diphenylamine	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	-	-	-	-
Hexachlorobutadiene	T	**0.6 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 3	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 3	-	-	-
Hexachlorocyclopentadiene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 1	-	-	-
Hexachloroethane	T			µg/L	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
Isophorone	T			µg/L	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.5	-	-	-
ISOPROPYLTOLUENE, p-	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 3	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 3	-	-	-
Methylnaphthalene, 1-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	-	-	-	-
Methylnaphthalene, 2-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	-	-	-	< 1	-	-	-	-	< 1	-	-	-	< 1	-	< 1	-	-	-
N-Nitrosodi-n-Propylamine	T			µg/L	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.5	-	-	-
Acenaphthene	T			µg/L	< 1	-	0.66	0.51	0.18	0.39	0.25	0.26	-	0.04	< 1	0.46	-	0.51	< 1	0.074	1	-	1	0.71
Acenaphthylene	T			µg/L	< 0.5	-	0.02	0.01	0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	< 0.01	-	0.01	< 1	< 0.013	< 0.5	-	0.02	0.01
Anthracene	T	**0.1 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.5	-	**0.12**	0.08	0.06	0.06	0.03	0.05	-	< 0.01	< 1	< 0.01	-	< 0.01	< 1	< 0.013	< 0.5	-	0.01	< 0.01
Benzo(a)anthracene	T			µg/L	< 0.5	-	0.04	0.03	< 0.01	0.02	0.01	0.01	-	< 0.01	< 1	< 0.01	-	< 0.01	< 1	< 0.015	< 0.5	-	< 0.01	< 0.01
Benzo(a)pyrene	T	**0.00017 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	**< 1**	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	< 0.01	-	< 0.01	< 1	< 0.016	< 1	-	< 0.01	< 0.01
Benzo(b)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	**0.02**	-	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	< 0.01	-	< 0.01	< 1	< 0.01	< 0.01	-	< 0.01	< 0.01
Benzo(b+k)fluoranthene	T	**0.017 µg/L**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal for benzo(b)fluoranthene/benzo(k)fluoranthene*	µg/L	**< 1**	-	< 0.02	**0.02**	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	-	-	-	< 0.02	< 0.018	< 0.018	< 1	-	< 0.02	< 0.02
Benzo(g,h,i)perylene	T	**0.00082 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.5	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	**0.01**	< 1	< 0.01	-	< 0.01	< 1	< 0.011	< 0.5	-	< 0.01	**0.01**
Benzo(g,h,i)perylene + Indeno(1,2,3-c,d)pyrene	T			µg/L	< 1.5	-	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	0.02	-	-	-	< 0.02	< 0.022	< 0.022	< 1.5	-	< 0.02	0.02
Benzo(k)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.01	-	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	< 0.01	-	< 0.01	< 1	< 0.01	< 0.01	-	< 0.01	< 0.01
Chrysene	T			µg/L	< 0.5	-	0.04	0.04	< 0.01	0.01	< 0.01	< 0.01	-	< 0.01	< 1	< 0.01	-	< 0.01	< 1	< 0.011	< 0.5	-	< 0.01	< 0.01
Dibenz(a,h)anthracene	T			µg/L	< 0.5	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	< 0.01	-	< 0.01	< 1	< 0.01	< 0.5	-	< 0.01	< 0.01
Fluoranthene	T	**0.0063 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	**< 0.5**	-	**0.54**	**0.42**	**0.09**	**0.3**	**0.19**	**0.19**	-	**0.06**	**< 1**	**0.4**	-	< 0.01	< 1	< 0.012	< 0.5	-	< 0.01	**0.02**
Fluorene	T			µg/L	< 0.5	-	0.22	0.17	0.06	0.15	0.09	0.1	-	0.02	< 1	0.17	-	0.07	< 1	< 0.014	< 0.5	-	0.13	0.1
Indeno(1,2,3-c,d)pyrene	T	Refer to result for benzo(a)pyrene as indicative of overall PAH risk	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 1	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	< 0.01	-	< 0.01	< 1	< 0.011	< 1	-	< 0.01	< 0.01
Naphthalene	T	**2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 2	-	0.89	0.28	0.12	0.38	0.21	0.25	-	0.07	< 1	0.84	-	**4.9**	**5.1**	< 0.1	**6**	-	**6.6**	**5**
Phenanthrene	T			µg/L	0.8	-	1.1	0.29	0.17	0.62	0.39	0.42	-	0.09	< 1	0.75	-	< 0.01	< 1	0.011	< 0.5	-	0.02	0.03
Pyrene	T			µg/L	< 0.5	-	0.35	0.3	0.08	0.2	0.14	0.14	-	0.05	< 1	0.29	-	0.01	< 1	< 0.013	< 0.5	-	< 0.01	0.01
Benzo(a)pyrene (surrogate marker for PAH mixture)	T			µg/L	< 1	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	-	-	< 0.01	< 0.016	< 0.016	< 1	-	< 0.01	< 0.01
PAH (Sum of 4)	T			µg/L	< 1.5	-	< 0.04	0.04	< 0.04	< 0.04	< 0.04	< 0.04	-	0.04	-	-	-	< 0.04	< 0.042	< 0.042	< 1.5	-	< 0.04	0.04
PAH (Sum of 16)	T			µg/L	1.5	-	3.9	2.2	0.78	2.1	1.3	1.4	-	0.34	-	2.9	-	5.6	6.231	< 0.195	3.2	-	7.8	5.9
Total PAH	T			µg/L	-	-	-	-	-	-	-	-	-	-	0.7242	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 2	-	-	-
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 2	-	-	-
1,1,2,2-Tetrachloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D
				Date	11/04/2022	11/04/2022	07/07/2022	22/09/2022	14/12/2022	20/03/2023	20/06/2023	27/09/2023	27/09/2023	17/01/2024	17/07/2024	21/10/2024	21/10/2024	13/08/2021	13/10/2021	16/11/2021	12/04/2022	12/04/2022	07/07/2022	22/09/2022
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																					
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	77	-	-	-	-	-
1,1,2,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 4	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 4	-	-	-
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 2	-	-	-
1,1-Dichloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	T	**1 µg/L**	*Laboratory LOD used*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
1,1-Dichloroethene	T	**1 µg/l**	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	T	1 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
1,1-dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
1,1-dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
1,2,3-trichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
1,2,3-trichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
1,2,4-Trimethylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
1,2-dibromo-3-chloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
1,2-dibromo-3-chloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 2	-	-	-
1,2-Dibromoethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 2	-	-	-
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 2	-	-	-
1,2-Dichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	< 6	-	-	-	-	< 2	-	-	-	-	-	-	-	-	< 2	-	< 6	-	-	-
1,2-Dichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 2	-	-	-
1,3,5-Trimethylbenzene (Mesitylene)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene (Mesitylene)	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
1,3-Dichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 2	-	-	-
1,3-Dichloropropene	T			µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	T	**2 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 2	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	T	2 µg/L	*Laboratory LOD used*	ug/L	< 1	-	-	-	-	< 2	-	-	-	-	-	-	-	-	< 2	-	< 1	-	-	-
2-chlorotoluene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
2-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
4-chlorotoluene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
4-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	< 1	-	-	-	-	-	-	-	-
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	< 1	-	< 1	< 1
Bromobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
Bromobenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 2	-	-	-
Bromodichloromethane	T	**4 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 4	-	-	-	-	-	-	-	-	-
Bromodichloromethane	T	4 µg/L	*Laboratory LOD used*	ug/L	< 2	-	-	-	-	< 4	-	-	-	-	-	-	-	-	< 4	-	< 2	-	-	-
Bromoform	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
Bromoform	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 2	-	-	-
Bromomethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
Bromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 1	-	-	-
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 2	-	-	-
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 4	-	-	-	-	-	-	-	-	-
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	ug/L	< 2	-	-	-	-	< 4	-	-	-	-	-	-	-	-	< 4	-	< 2	-	-	-
Chloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
Chloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
Chloroform	T	**2.5 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
Chloroform	T	2.5 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 2	-	-	-
Chloromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
Chloromethane	T	**1 µg/L**	*Laboratory LOD used*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
cis-1,2-dichloroethene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
cis-1,2-dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
cis-1,3-Dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 2	-	-	-
Dibromochloromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
Dibromochloromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 2	-	-	-
Dibromomethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
Dibromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 2	-	-	-
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	< 27	-	-	-	-	-	-	-	-	-
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 3	-	-	-	-	< 27	-	-	-	-	-	-	-	-	< 27	-	< 3	-	-	-
Ethylbenzene	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	< 1	-	-	-	-	-	-	-	-
Ethylbenzene	T	**20 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	< 1	-	< 1	< 1
Isopropylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
Isopropylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

			Location	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH14	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D
			Date	11/04/2022	11/04/2022	07/07/2022	22/09/2022	14/12/2022	20/03/2023	20/06/2023	27/09/2023	27/09/2023	17/01/2024	17/07/2024	21/10/2024	21/10/2024	13/08/2021	13/10/2021	16/11/2021	12/04/2022	12/04/2022	07/07/2022	22/09/2022
			Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																			
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	-	-	-	77	-	-	-	-	-
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 0.1	-	-	-	-	< 1	-	-	-	-	-	-	-	< 1	< 1	< 1	< 0.1	-	-	-
n-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
n-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
n-Propylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
n-Propylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
sec-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
sec-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 2	-	-	-
tert-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
tert-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	< 1	-	-	-	-	-	-	-	-
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	ug/L	< 5	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	< 5	-	< 1	< 1
trans-1,2-Dichloroethene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
trans-1,3-Dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 2	-	-	-
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
Trichlorofluoromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 3	-	-	-
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 0.1	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 0.1	-	-	-
m-& p-Xylenes	T	**2 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 2	-	-	-	-	-	-	-	-	-
m-& p-Xylenes	T	2 µg/L	*Laboratory LOD used*	ug/L	< 2	-	-	-	-	< 2	-	-	-	-	-	-	-	-	< 2	-	< 2	-	-	-
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 3	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	< 3	-	-	-
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	-	-	-	< 1	< 1	< 1	< 1	-	< 1	< 1
o-Xylene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-	-	-	-
o-Xylene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	-	-	-	< 1	-	-	-	-	-	-	-	-	< 1	-	< 1	-	-	-
Sum of Trihalomethanes	T	7 µg/L	*Laboratory LOD used*	µg/L	< 8	-	-	-	-	< 7	-	-	-	-	-	-	-	-	< 7	-	< 8	-	-	-
Sum of Tetrachloroethene + Trichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	< 6	-	-	-	-	< 2	-	-	-	-	-	-	-	-	< 2	-	< 6	-	-	-
Volatile TIC	T			none	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
TPH >C5-C10	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH >C10-C40	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	130	< 10	130	-	-	-	-
Aliphatics >C5-C6	T			µg/L	22	-	< 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	4.7
Aliphatics >C5-C35	T			µg/L	22	-	< 10	< 10	< 10	-	-	-	-	-	-	-	-	32	< 10	< 10	< 10	-	< 10	< 10
Aliphatics >C6-C8	T			µg/L	< 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
Aliphatics >C8-C10	T			µg/L	< 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
Aliphatics >C10-C12	T			µg/L	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	-	2.4	< 1	< 1	< 1	-	< 1	< 1
Aliphatics >C10-C44	T			µg/L	-	-	-	-	-	< 1	< 1	< 1	-	< 1	9.0025	< 1	-	-	-	-	-	-	-	-	-
Aliphatics >C12-C16	T			µg/L	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	2.3726	< 1	-	1.6	< 1	< 1	< 1	-	< 1	< 1
Aliphatics >C16-C21	T			µg/L	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	6.0961	< 1	-	27	< 1	< 1	< 1	-	< 1	< 1
Aliphatics >C16-C35	T			µg/L	< 2	-	< 2	< 2	< 2	< 2	< 2	< 2	-	< 2	-	-	-	28	< 2	< 2	< 2	-	< 2	< 2
Aliphatics >C21-C35	T			µg/L	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1	-	< 1	< 1
Aliphatics >C35-C44	T			µg/L	-	-	-	-	-	< 1	< 1	< 1	-	< 1	< 1	< 1	-	-	-	-	-	-	-	-
Aromatics >C5-C7	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 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
Aromatics >C5-C35	T			µg/L	< 10	-	< 10	< 10	< 10	-	-	-	-	-	-	-	-	< 10	< 10	< 10	16	-	< 10	40
Aromatics >C7-C8	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 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
Aromatics >C8-C10	T			µg/L	< 0.1	-	< 0.1	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
Aromatics >C10-C12	T			µg/L	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	-	< 1	< 1	< 1	9.4	-	3.1	4.9
Aromatics >C10-C44	T			µg/L	-	-	-	-	-	< 1	21	< 1	-	< 1	< 1	< 1	-	-	-	-	-	-	-	-
Aromatics >C12-C16	T			µg/L	< 1	-	< 1	< 1	< 1	< 1	4.4	< 1	-	< 1	< 1	< 1	-	< 1	< 1	< 1	5.6	-	< 1	4.1
Aromatics >C16-C21	T			µg/L	< 1	-	< 1	5.1	< 1	< 1	12	< 1	-	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1	-	< 1	< 1
Aromatics >C21-C35	T			µg/L	< 1	-	3.3	< 1	< 1	< 1	3.7	< 1	-	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1	-	2.7	30
Aromatics >C35-C44	T			µg/L	-	-	-	-	-	< 1	< 1	< 1	-	< 1	< 1	< 1	-	-	-	-	-	-	-	-
Aliphatics & Aromatics >C5-C35	T			µg/L	23	-	< 10	< 10	< 10	-	-	-	-	-	-	-	-	32	< 10	< 10	16	-	< 10	45
Aliphatics & Aromatics >C10-C44	T			µg/L	-	-	-	-	-	< 1	21	< 1	-	< 1	9.0025	< 1	-	-	-	-	-	-	-	-

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

			Location	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	S2-BHA04D	S2-BHA04D
			Date	15/12/2022	21/03/2023	20/06/2023	27/09/2023	27/09/2023	17/01/2024	17/07/2024	23/10/2024	23/10/2024	05/11/2024	05/11/2024
			Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
			Sample Type	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**										
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	-
SVOC TICs	T			µg/L	-	-	-	-	-	-	1	-	-	-	-
Dibutyltin	T			µg/L	-	-	-	-	-	-	< 1	-	< 1	-	-
Tributyltin	T	0.0002 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	-	< 1	-	-
Triphenyltin	T	0.008 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	< 1	-	< 1	-	-
Dibenzofuran	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
PCB 12	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	-	-	-	-	-	-	-	-	-	-
PCB 52	T	0.2 µg/L	*Laboratory LOD used*	µg/L	< 0.2	-	-	-	-	-	-	-	-	-	-
PCB 77	T	0.3 µg/L	*Laboratory LOD used*	µg/L	< 0.3	-	-	-	-	-	-	-	-	-	-
PCB 81	T	0.2 µg/L	*Laboratory LOD used*	µg/L	< 0.2	-	-	-	-	-	-	-	-	-	-
PCB 101	T	0.3 µg/L	*Laboratory LOD used*	µg/L	< 0.3	-	-	-	-	-	-	-	-	-	-
PCB 105	T	0.2 µg/L	*Laboratory LOD used*	µg/L	< 0.2	-	-	-	-	-	-	-	-	-	-
PCB 114	T	0.3 µg/L	*Laboratory LOD used*	µg/L	< 0.3	-	-	-	-	-	-	-	-	-	-
PCB 126	T	0.5 µg/L	*Laboratory LOD used*	µg/L	< 0.5	-	-	-	-	-	-	-	-	-	-
PCB 138	T	0.2 µg/L	*Laboratory LOD used*	µg/L	< 0.2	-	-	-	-	-	-	-	-	-	-
PCB 153	T	0.2 µg/L	*Laboratory LOD used*	µg/L	< 0.2	-	-	-	-	-	-	-	-	-	-
PCB 156	T	0.3 µg/L	*Laboratory LOD used*	µg/L	< 0.3	-	-	-	-	-	-	-	-	-	-
PCB 157	T	0.2 µg/L	*Laboratory LOD used*	µg/L	< 0.2	-	-	-	-	-	-	-	-	-	-
PCB 167	T	0.3 µg/L	*Laboratory LOD used*	µg/L	< 0.3	-	-	-	-	-	-	-	-	-	-
PCB 169	T	0.2 µg/L	*Laboratory LOD used*	µg/L	< 0.2	-	-	-	-	-	-	-	-	-	-
PCB 180	T	0.2 µg/L	*Laboratory LOD used*	µg/L	< 0.2	-	-	-	-	-	-	-	-	-	-
PCB 189	T	0.3 µg/L	*Laboratory LOD used*	µg/L	< 0.3	-	-	-	-	-	-	-	-	-	-
PCB Coelute 28/31	T	0.3 µg/L	*Laboratory LOD used*	ug/L	< 0.3	-	-	-	-	-	-	-	-	-	-
PCB Coelute 118/123	T	0.6 µg/L	*Laboratory LOD used*	ug/L	< 0.6	-	-	-	-	-	-	-	-	-	-
Total 7 PCB	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	-	-	-	-	-	-	-	-	-	-
2,3,6-TBA	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-T	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-
2,4-D	T	0.3 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	-	-	-
2,4-DB	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methyl-4-Chlorophenoxy Butanoic Acid	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	T	80 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-
Actril (loxynil)	T	10 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-
Bentazon	T	500 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-
Bromoxynil	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-
Clopyralid	T	**0.02 µg/L**	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dicamba	T	**0.02 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-
Dichlorprop	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-
Fluroxypyr	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mecoprop	T	18 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	-	-	-	-	-
Picloram	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-
Silvex	T	0.02 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-
Triclopyr	T	0.02 µg/L	*Laboratory LOD used*	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dinitrobenzene, p-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
1,3-Dinitrobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
Dinitrotoluene, 2,4-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
Dinitrotoluene, 2,6-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
Nitrobenzene	T			µg/L	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
1,2-Dichlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	**8**	-
1,3-Dichlorobenzene	T	**2 µg/L**	*Laboratory LOD used*	µg/L	-	< 2	-	-	-	-	< 2	-	-	**8**	-
1,4-Dichlorobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	**8**	-
Trichlorobenzene	T	0.4 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 2	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	-	< 1	-	-	-	-	< 1	-	-	10	-
1,2,4-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	-	< 1	-	-	-	-	< 1	-	-	10	-
Hexachlorobenzene	T	0.05 µg/l	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
2,3,4,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
2,3,5,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	< 1	-
2,3,5,6-Tetrachlorophenol	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
2,4,6-Trichlorophenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 1	-	< 0.1	< 0.1	-
2,4-Dichlorophenol	T	0.42 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 1	-	< 0.1	< 0.1	-
2,4-Dimethylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/L	**0.13**	< 0.1	< 0.1	< 0.1	-	< 0.1	< 1	-	< 0.1	< 0.1	-
2,6-Dichlorophenol	T	0.42 µg/L	*WFD England/Wales. 2015 - Saltwater Standards for 2,4-dichlorophenol*	µg/L	-	-	-	-	-	-	< 0.1	-	< 0.1	< 0.1	-
2,6-Dichlorophenol	T	0.42 µg/L	*WFD England/Wales. 2015 - Saltwater Standards for 2,4-dichlorophenol*	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	-	-	-	-	-
2,6-Dimethylphenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	-	< 0.1	< 0.1	-
2-Chlorophenol	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
2-methylphenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
2-Nitrophenol	T			µg/L	-	-	-	-	-	-	-	-	-	-	-
3/4-Methylphenol (m/p-cresol)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-

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Table: Groundwater Analytical Results - data collected by AECOM
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				Location	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	S2-BHA04D	S2-BHA04D
				Date	15/12/2022	21/03/2023	20/06/2023	27/09/2023	27/09/2023	17/01/2024	17/07/2024	23/10/2024	23/10/2024	05/11/2024	05/11/2024
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**											
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	T	40 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 0.1	< 0.1	< 0.1	0.15	-	< 0.1	< 1	-	< 0.1	< 0.1	-
4-Methylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/L	**0.1**	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	-	< 0.1	< 0.1	-
4-Nitrophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
Pentachlorophenol	T	**0.4 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
Phenol	T	**7.7 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 1	-	< 0.1	< 0.1	-
Total Monohydric Phenols (S) Corrected	T	**100 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon	D			mg/L	6	4.8	7.4	6.8	-	4.8	-	-	-	8	-
Dissolved Organic Carbon	T			mg/L	-	-	-	-	-	-	6.75	-	8.2	-	-
Total Organic Carbon	T			mg/L	-	-	-	-	-	-	-	-	-	-	-
Colour	N			none	-	-	-	-	Cloudy	-	-	Clear	-	-	Clear
Density	N			g/cm3	-	-	-	-	-	-	-	-	-	-	-
Electrical Conductivity (Lab)	T			µS/cm	-	-	-	-	-	-	2178.31	-	1999.12	2100	-
Electrical Conductivity (Lab)	T			uS/cm	1980	2210	2130	1890	-	2120	-	-	-	-	-
pH	T			pH units	-	-	-	-	-	-	10.33	-	10.45	-	-
Solids, Suspended at 105 C	T			mg/L	-	34	23	15	-	15	-	-	-	20	-
Suspended solids (NEN-EN 872)	T			mg/L	-	-	-	-	-	-	< 5	-	< 5	-	-
Alkalinity, Total (as CaCO3)	T			mg/L	-	60	69	83	-	77	56	-	-	-	-
Ammoniacal Nitrogen as N	T	**21 µg/l**	*Value for un-ionised ammonia, WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**2200**	**1800**	**2400**	**5100**	-	**4900**	**2924.7**	-	**1310.8**	**820**	-
Ammoniacal Nitrogen as NH3	T			mg/L	2.7	2.1	2.9	6.2	-	5.9	3.5515	-	1.5917	1	-
Carbonate	T			mg/L	-	-	-	-	-	-	-	-	-	40	-
Chloride	D			µg/L	-	-	-	-	-	-	87976.1	-	98691.8	-	-
Chloride	T			µg/L	96000	62000	77000	100000	-	73000	-	-	-	270000	-
Cyanide	D	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	**13**	-	**12.66**	-	-
Cyanide	T	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**16**	**13**	**14**	**9.6**	-	**9.6**	-	-	-	-	-
Cyanide (free)	T	**1 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	0.6	0.6	**1.8**	**2.2**	-	0.3	0.6	-	0.15	0.4	-
Cyanide, Total Low Level	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	-	-	-	-	-	-	-	-	-	**500**	-
Cyanides-complex	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	-	**12**	**12**	**7.4**	-	**9.3**	-	-	**12.51**	**500**	-
Elemental Sulphur	T			µg/L	-	-	-	-	-	-	-	-	-	< 84	-
Elemental Sulphur	T			ug/L	-	< 84	< 84	< 84	-	< 84	-	-	-	-	-
Fluoride	D	**5000 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	853.1	-	1050	-	-
Fluoride	T	**5000 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 100	< 100	< 100	< 100	-	< 100	-	-	-	2100	-
Hardness as CaCO3	T			mg/L	-	885	906	776	-	915	-	-	-	698	-
Ion balance	T			%	-	116	89	103	-	101	91.1433	-	110.7585	103	-
Nitrate (as N)	T			mg/L	< 0.1	< 0.1	0.13	1	-	< 0.1	0.1586	-	0.6474	< 0.1	-
Nitrate (as NO3-)	D			µg/L	-	-	-	-	-	-	734.2	-	925	-	-
Nitrate (as NO3-)	T			µg/L	< 442.66	< 442.66	575.458	4426.6	-	< 442.66	-	-	-	400	-
Nitrite	T			µg/L	< 114.954	< 114.954	< 114.954	< 114.954	-	< 114.954	-	-	-	-	-
Nitrite (as N)	T			mg/L	< 0.035	< 0.035	< 0.035	< 0.035	-	-	< 0.035	-	3.306	< 0.035	-
Nitrite (as N)	T			ug/L	-	-	-	-	-	< 35	-	-	-	-	-
Ortho Phosphate as P	T			mg/L	-	-	-	-	-	-	< 0.01	-	< 0.01	-	-
Phosphate (as P)	T			mg/L	0.11	-	-	-	-	-	-	-	-	-	-
Phosphorous, Total Orthophosphate (As P)	T			mg/L	-	< 0.01	0.02	< 0.01	-	< 0.01	-	-	-	0.03	-
Silica as SiO2	T			mg/L	-	12	6.7	5.8	-	14	14.355	-	-	6.7	-
Sulphate As SO4	D			µg/L	-	-	-	-	-	-	942335	-	-	-	-
Sulphate As SO4	T			µg/L	-	1100000	840000	850000	-	990000	-	-	-	-	-
Sulphide	T			µg/L	-	-	-	-	-	-	439.1189	-	< 10	-	-
Sulphide	T			ug/L	-	36	26	500	-	100	-	-	-	-	-
Sulphur as S	T			mg/L	-	440	420	550	-	6500	-	-	-	270	-
Sulphur (Free)	T			µg/L	-	-	-	-	-	-	< 84	-	< 84	-	-
Thiocyanate	D			µg/L	-	-	-	-	-	-	159.11	-	194.77	-	-
Thiocyanate	T			µg/L	< 20	190	280	250	-	220	-	-	-	< 20	-
Total Hardness	T			mg/L	-	-	-	-	-	-	996.1428	-	712.2035	-	-
Sulphur	T			µg/L	-	-	-	-	-	-	484304	-	145110	-	-
Aluminium	D	**15 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	**54**	**58**	**51**	**36**	-	**36**	**24.2695**	-	**147.2507**	13	-
Antimony	D			µg/L	-	0.25	0.41	0.17	-	0.27	0.1824	-	0.5425	0.52	-
Arsenic	D	**25 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	15	15	15	18	-	18	16.833	-	6.0819	7.8	-
Barium	D			µg/L	-	51	74	66	-	71	101.9205	-	62.9463	99	-
Beryllium	D			µg/L	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	-	< 0.1	< 0.1	-
Boron	D	7000 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	96	70	78	67	-	75	98.7073	-	102.9609	590	-
Cadmium	D	**0.2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	< 0.03	-	< 0.03	< 0.03	-
Calcium	D			µg/L	-	350000	360000	310000	-	370000	398899.4	-	-	-	-
Trivalent Chromium (CrIII)	D			µg/L	< 1	3.4	< 1	< 1	-	< 1	< 1	-	< 1	< 1	-
Hexavalent Chromium (CrVI)	T	**0.6 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 7	< 7	< 7	< 7	-	< 7	< 7	-	< 7	< 7	-
Copper	D	**3.76 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	0.4	< 0.4	< 0.4	< 0.4	-	< 0.4	< 0.4	-	**4.1325**	< 0.4	-
Iron	D	**1000 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	6.1	77	22	9.9	-	8.2	8.1276	-	7.7226	260	-
Lead	D	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.09	0.09	0.14	< 0.09	-	< 0.09	< 0.09	-	< 0.09	< 0.09	-
Magnesium	D			µg/L	-	60	370	1000	-	60	22.1	-	-	-	-
Manganese	D			µg/L	< 0.22	2.1	6.5	3.2	-	0.49	7.4788	-	1.2983	100	-
Mercury	D	**0.07 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	**0.2**	**0.13**	**0.16**	**0.12**	-	**0.13**	**0.1107**	-	**0.1496**	0.03	-

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	S2-BHA04D	S2-BHA04D
				Date	15/12/2022	21/03/2023	20/06/2023	27/09/2023	27/09/2023	17/01/2024	17/07/2024	23/10/2024	23/10/2024	05/11/2024	05/11/2024
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**											
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	D			µg/L	40	36	40	39	-	39	47.418	-	47.881	200	-
Nickel	D	**8.6 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	0.5	2.3	1.3	1.3	-	1.1	0.8837	-	1.1811	1.3	-
Phosphorus	D	See source document	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	37	-	-	-	-	-	33.3297	-	42.0208	26	-
Potassium	D			µg/L	-	96000	94000	95000	-	94000	94190.7	-	-	-	-
Selenium	D			µg/L	6.3	9.6	7.6	5	-	5.7	4.0769	-	13.5564	0.61	-
Sodium	D			µg/L	-	57000	67000	77000	-	64000	64969.2	-	-	-	-
Tin	D	10 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 0.4	< 0.4	< 0.4	< 0.4	-	1.3	< 0.4	-	< 0.4	< 0.4	-
Titanium	D			µg/L	-	-	-	-	-	-	< 0.3	-	< 0.3	< 0.3	-
Titanium	D			ug/L	-	0.7	< 0.3	< 0.3	-	< 0.3	-	-	-	-	-
Vanadium	D	**100 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	1	1	8.8	33	-	54	38.2935	-	**137.3835**	11	-
Zinc	D	**6.8 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	4.6	2.9	3.2	**96**	-	4.6	< 1.3	-	**22.5975**	**18**	-
2-chloronaphthalene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
2-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
3-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
4-bromophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
4-Chlorophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
4-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
Aniline	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
Azobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
Benzyl Alcohol	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
Benzyl Butyl Phthalate	T	0.75 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
bis(2-Chloroethoxy)methane	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
bis(2-Chloroethyl)ether	T			µg/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroisopropyl)ether	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
Bis(2-Ethylhexyl) Adipate	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
Bis(2-ethylhexyl) phthalate	T	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
Carbazole	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
Chloroaniline, p-	T			µg/L	-	-	-	-	-	-	-	-	-	-	-
Diethyl Phthalate	T	200 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
Dimethyl Phthalate	T	800 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
Di-n-butyl phthalate	T	8 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
Di-n-octyl phthalate	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
Diphenylamine	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
Hexachlorobutadiene	T	**0.6 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	-	< 1	-	-	-	-	< 1	-	-	**10**	-
Hexachlorocyclopentadiene	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
Hexachloroethane	T			µg/L	-	-	-	-	-	-	-	-	-	-	-
Isophorone	T			µg/L	-	-	-	-	-	-	-	-	-	-	-
ISOPROPYLTOLUENE, p-	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	**8**	-
Methylnaphthalene, 1-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
Methylnaphthalene, 2-	T	1 µg/L	*Laboratory LOD used*	µg/L	-	< 1	-	-	-	-	< 1	-	-	< 1	-
N-Nitrosodi-n-Propylamine	T			µg/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	T			µg/L	0.84	0.96	1.5	1.6	-	1.9	1.7499	-	0.0461	0.02	-
Acenaphthylene	T			µg/L	0.02	0.03	0.03	0.03	-	0.06	< 1	-	0.1126	< 0.01	-
Anthracene	T	**0.1 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	0.01	0.01	< 0.01	< 0.01	-	0.01	< 1	-	0.044	< 0.01	-
Benzo(a)anthracene	T			µg/L	< 0.01	< 0.01	< 0.01	< 0.01	-	0.03	< 1	-	0.0207	< 0.01	-
Benzo(a)pyrene	T	**0.00017 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.01	< 0.01	< 0.01	< 0.01	-	**0.02**	< 1	-	< 0.01	< 0.01	-
Benzo(b)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.01	< 0.01	< 0.01	< 0.01	-	**0.05**	< 1	-	< 0.01	< 0.01	-
Benzo(b+k)fluoranthene	T	**0.017 µg/L**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal for benzo(b)fluoranthene/benzo(k)fluoranthene*	µg/L	< 0.02	< 0.02	< 0.02	< 0.02	-	**0.07**	-	-	-	-	-
Benzo(g,h,i)perylene	T	**0.00082 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.01	< 0.01	< 0.01	< 0.01	-	**0.04**	< 1	-	**0.0178**	< 0.01	-
Benzo(g,h,i)perylene + Indeno(1,2,3-c,d)pyrene	T			µg/L	< 0.02	< 0.02	< 0.02	< 0.02	-	0.08	-	-	-	-	-
Benzo(k)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.01	< 0.01	< 0.01	< 0.01	-	**0.02**	< 1	-	< 0.01	< 0.01	-
Chrysene	T			µg/L	< 0.01	< 0.01	< 0.01	< 0.01	-	0.02	< 1	-	0.0126	< 0.01	-
Dibenz(a,h)anthracene	T			µg/L	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 1	-	< 0.01	< 0.01	-
Fluoranthene	T	**0.0063 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.01	< 0.01	< 0.01	< 0.01	-	**0.08**	< 1	-	**0.0561**	< 0.01	-
Fluorene	T			µg/L	0.13	0.2	0.21	0.24	-	0.31	< 1	-	0.0352	0.01	-
Indeno(1,2,3-c,d)pyrene	T	Refer to result for benzo(a)pyrene as indicative of overall PAH risk	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 0.01	< 0.01	< 0.01	< 0.01	-	0.04	< 1	-	0.0102	< 0.01	-
Naphthalene	T	**2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	**5.1**	**6.5**	**2.4**	**6.5**	-	**5.3**	**3.7108**	-	< 0.05	0.07	-
Phenanthrene	T			µg/L	0.02	0.01	0.02	0.02	-	0.07	< 1	-	0.0242	0.03	-
Pyrene	T			µg/L	< 0.01	< 0.01	< 0.01	< 0.01	-	0.07	< 1	-	0.0425	0.01	-
Benzo(a)pyrene (surrogate marker for PAH mixture)	T			µg/L	< 0.01	< 0.01	< 0.01	< 0.01	-	0.02	-	-	-	-	-
PAH (Sum of 4)	T			µg/L	< 0.04	< 0.04	< 0.04	< 0.04	-	0.15	-	-	-	-	-
PAH (Sum of 16)	T			µg/L	6.2	7.7	4.2	8.4	-	8	-	-	-	< 0.2	-
Total PAH	T			µg/L	-	-	-	-	-	-	5.8791	-	0.4219	-	-
1,1,1,2-Tetrachloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**7**	-
1,1,1,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	< 1	-	-	4	-
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**7**	-

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

			Location	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	S2-BHA04D	S2-BHA04D
			Date	15/12/2022	21/03/2023	20/06/2023	27/09/2023	27/09/2023	17/01/2024	17/07/2024	23/10/2024	23/10/2024	05/11/2024	05/11/2024
			Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
			Sample Type	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**										
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	< 1	-	-	6	-
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**3**	-
1,1-Dichloroethane	T	**1 µg/L**	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	T	**1 µg/l**	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	**2**	-
1,1-Dichloroethene	T	1 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
1,1-dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**4**	-
1,1-dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
1,2,3-trichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**7**	-
1,2,3-trichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**8**	-
1,2,4-Trimethylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
1,2-dibromo-3-chloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**9**	-
1,2-dibromo-3-chloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**6**	-
1,2-Dibromoethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	4	-
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	-	< 2	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**5**	-
1,2-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene (Mesitylene)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**8**	-
1,3,5-Trimethylbenzene (Mesitylene)	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**6**	-
1,3-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene	T			µg/L	-	-	-	-	-	-	< 1	-	-	-	-
2,2-Dichloropropane	T	**2 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 2	-	-	**3**	-
2,2-Dichloropropane	T	2 µg/L	*Laboratory LOD used*	ug/L	-	< 2	-	-	-	-	-	-	-	-	-
2-chlorotoluene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**8**	-
2-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
4-chlorotoluene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**8**	-
4-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	-	< 1	4	-
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 1	< 1	< 1	< 1	-	< 1	-	-	-	-	-
Bromobenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**7**	-
Bromobenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
Bromodichloromethane	T	**4 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 4	-	-	< 4	-
Bromodichloromethane	T	4 µg/L	*Laboratory LOD used*	ug/L	-	< 4	-	-	-	-	-	-	-	-	-
Bromoform	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**7**	-
Bromoform	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
Bromomethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	< 1	-
Bromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	4	-
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 4	-	-	< 4	-
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	ug/L	-	< 4	-	-	-	-	-	-	-	-	-
Chloroethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**2**	-
Chloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
Chloroform	T	**2.5 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	< 1	-
Chloroform	T	2.5 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
Chloromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**1**	-
Chloromethane	T	**1 µg/L**	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
cis-1,2-dichloroethene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**3**	-
cis-1,2-dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-	-	**5**	-
cis-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
Dibromochloromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	< 1	-
Dibromochloromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
Dibromomethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	< 1	-
Dibromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	< 1	-
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 27	-	-	< 27	-
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	< 27	-	-	-	-	-	-	-	-	-
Ethylbenzene	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	< 1	-	< 1	7	-
Ethylbenzene	T	**20 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	< 1	< 1	< 1	-	< 1	-	-	-	-	-
Isopropylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	< 1	-
Isopropylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	< 1	-

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by AECOM
Analyte Group: All
Date Range: 10/08/2021 13/11/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

			Location	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	S2-BHA04D	S2-BHA04D
			Date	15/12/2022	21/03/2023	20/06/2023	27/09/2023	27/09/2023	17/01/2024	17/07/2024	23/10/2024	23/10/2024	05/11/2024	05/11/2024
			Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
			Sample Type	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**										
PAH Surrogate % Recovery	T			%	-	-	-	-	-	-	-	-	-	-
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	µg/L	-	< 1	-	-	-	-	-	-	-	-
n-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**9**	-
n-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
n-Propylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**7**	-
n-Propylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
sec-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**8**	-
sec-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	< 1	-	-	7	-
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
tert-Butylbenzene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**8**	-
tert-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	6	-
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	-	-	-	-	< 1	-	< 1	5	-
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	ug/L	< 1	< 1	< 1	< 1	-	< 1	-	-	-	-	-
trans-1,2-Dichloroethene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**3**	-
trans-1,2-Dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	**6**	-
trans-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	< 1	-
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	-	< 1	-
Trichlorofluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	µg/L	-	-	-	-	-	-	< 1	-	-	1	-
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
m-& p-Xylenes	T	**2 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 2	-	-	**7**	-
m-& p-Xylenes	T	2 µg/L	*Laboratory LOD used*	ug/L	-	< 2	-	-	-	-	-	-	-	-	-
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	< 1	-
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	< 1	< 1	< 1	-	< 1	-	-	-	-	-
o-Xylene	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	< 1	-	< 1	**7**	-
o-Xylene	T	1 µg/L	*Laboratory LOD used*	ug/L	-	< 1	-	-	-	-	-	-	-	-	-
Sum of Trihalomethanes	T	7 µg/L	*Laboratory LOD used*	µg/L	-	< 7	-	-	-	-	-	-	-	-	-
Sum of Tetrachloroethene + Trichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	-	< 2	-	-	-	-	-	-	-	-	-
Volatile TIC	T			none	-	-	-	-	-	-	1	-	-	-	-
TPH >C5-C10	T			µg/L	-	-	-	-	-	-	-	-	-	-	-
TPH >C10-C40	T			µg/L	-	-	-	-	-	-	-	-	-	-	-
Aliphatics >C5-C6	T			µg/L	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	-	< 0.1	< 0.1	-
Aliphatics >C5-C35	T			µg/L	< 10	-	-	-	-	-	-	-	-	-	-
Aliphatics >C6-C8	T			µg/L	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	-	< 0.1	< 0.1	-
Aliphatics >C8-C10	T			µg/L	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	-	< 0.1	< 0.1	-
Aliphatics >C10-C12	T			µg/L	< 1	< 1	< 1	< 1	-	< 1	< 1	-	< 1	< 1	-
Aliphatics >C10-C44	T			µg/L	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	< 1	-
Aliphatics >C12-C16	T			µg/L	< 1	< 1	< 1	< 1	-	< 1	< 1	-	< 1	< 1	-
Aliphatics >C16-C21	T			µg/L	< 1	< 1	< 1	< 1	-	< 1	< 1	-	< 1	< 1	-
Aliphatics >C16-C35	T			µg/L	< 2	< 2	< 2	< 2	-	< 2	-	-	-	-	-
Aliphatics >C21-C35	T			µg/L	< 1	< 1	< 1	< 1	-	< 1	< 1	-	< 1	< 1	-
Aliphatics >C35-C44	T			µg/L	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	< 1	-
Aromatics >C5-C7	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	-	< 0.1	< 0.1	-
Aromatics >C5-C35	T			µg/L	< 10	-	-	-	-	-	-	-	-	-	-
Aromatics >C7-C8	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	-	< 0.1	< 0.1	-
Aromatics >C8-C10	T			µg/L	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	-	< 0.1	< 0.1	-
Aromatics >C10-C12	T			µg/L	4.6	< 1	2.1	< 1	-	< 1	< 1	-	< 1	< 1	-
Aromatics >C10-C44	T			µg/L	-	< 1	12	< 1	-	< 1	< 1	-	< 1	< 1	-
Aromatics >C12-C16	T			µg/L	< 1	< 1	4.2	< 1	-	< 1	< 1	-	< 1	< 1	-
Aromatics >C16-C21	T			µg/L	< 1	< 1	5.5	< 1	-	< 1	< 1	-	< 1	< 1	-
Aromatics >C21-C35	T			µg/L	< 1	< 1	< 1	< 1	-	< 1	< 1	-	< 1	< 1	-
Aromatics >C35-C44	T			µg/L	-	< 1	< 1	< 1	-	< 1	< 1	-	< 1	< 1	-
Aliphatics & Aromatics >C5-C35	T			µg/L	< 10	-	-	-	-	-	-	-	-	-	-
Aliphatics & Aromatics >C10-C44	T			µg/L	-	< 1	12	< 1	-	< 1	< 1	-	< 1	< 1	-

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by Arcadis
Analyte Group: All
Date Range: 15/09/2022 18/04/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S
				Date	04/10/2022	09/11/2022	09/01/2023	26/01/2023	14/02/2023	21/03/2023	25/05/2023	28/06/2023	02/08/2023	27/09/2023	25/10/2023	28/11/2023	11/01/2024	09/02/2024	19/03/2024	18/04/2024	05/10/2022	08/11/2022	10/01/2023	26/01/2023	15/02/2023
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																					
Methyl N-Amyl Ketone	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	349	-	
Hexathiane	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SVOC TICs	T			µg/L	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	-	0
Dibutyltin	T			µg/L	-	-	< 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.1	-	-
Tributyltin	T	0.0002 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	< 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.1	-	-
Triphenyltin	T	0.008 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	< 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.1	-	-
Dibenzofuran	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dinitrotoluene, 2,4-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dinitrotoluene, 2,6-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Nitrobenzene	T			µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichlorobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,3-Dichlorobenzene	T	2 µg/L	*Laboratory LOD used*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,4-Dichlorobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2,3-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2,4-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Hexachlorobenzene	T	0.05 µg/l	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1-Naphthol	T			mg/L	-	-	< 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	< 0.01	< 0.01	< 0.01
2,3,5-Trimethylphenol	T			µg/L	-	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10
2,4,5-Trichlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4,6-Trichlorophenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	T	0.42 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dimethylphenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorophenol	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Isopropylphenol	T			µg/L	-	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10
2-methylphenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 0.5	< 0.5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 0.5	< 10	< 10	< 10	< 10
2-Nitrophenol	T			µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
3/4-Methylphenol (m/p-cresol)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	-	-	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	-	**30**	< 20	< 20	< 20
4-Chloro-3-methylphenol	T	40 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4-Methylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**5**	**4**	**2**	**1**	**1**	< 1	< 1	< 1	< 1	< 1
4-Nitrophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 10	< 0.5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Catechol (o-dihydroxybenzene)	T			mg/L	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 0.01	< 0.01	< 0.2	< 0.5	< 0.01	< 0.01	< 0.01	< 0.1	-	< 0.01	< 0.01	< 0.01	< 0.01
Cresol Total	T			µg/L	-	-	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	-	30	< 30	< 30	< 30
Pentachlorophenol	T	0.4 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 1	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Phenol	T	**7.7 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 10	< 0.5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 200	**40**	**70**	**30**	**20**	< 100	< 10	< 10	< 10	**10**	< 10
Total Speciated Phenols	T			mg/L	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1
Total Speciated Phenols	T			ug/L	-	< 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenols	T			µg/L	-	-	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	-	< 60	< 60	< 60	< 60
Dissolved Organic Carbon	T			mg/L	-	100	62	53	28	32	23	24	42	65	72	73	77	58	53	56	-	80	99	172	128
pH (Lab)	T			pH units	-	11.7	11.4	11.23	10.29	10.26	9.71	9.55	-	8.76	9.92	6.94	9.56	9.81	9.16	9.68	-	11.88	11.2	12.16	11.21
Suspended solids (NEN-EN 872)	T			mg/L	-	-	-	83	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	174	75
Total Suspended Solids	T			mg/L	-	-	60	-	44	-	143	< 10	21	125	30	68	65	52	133	132	-	19	91	-	-
% Cation Excess	T			%	-	-	11.74	4.57	10.21	3.32	0.46	28.66	-7.74	7.45	8.39	9.85	20.47	0.08	3.21	-5.1	-	7.74	-12.49	1.93	6.25
Alkalinity, Total (as CaCO3)	T			mg/L	-	-	228	186	64	86	72	48	146	120	132	98	136	102	126	102	-	322	144	790	236
Ammoniacal Nitrogen as N	T	**21 µg/l**	*Value for un-ionised ammonia, WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**550**	**1070**	**2670**	**1700**	**1860**	**1130**	**7180**	**11730**	**440**	**840**	**7480**	**1020**	**8660**	**1040**	**1370**	**2970**	**370**	**110**	**70**	**900**	**120**
Anions Total	T			mmolc/l	-	-	34.93	34.78	30.39	30.54	36.82	32.48	37.87	24.49	27.62	20.54	25.12	25.23	23.52	29.15	-	24.67	13.55	22.61	18.91
Cation, total	T			mmolc/l	-	-	44.22	38.11	37.3	32.64	37.16	58.58	32.43	28.43	32.68	25.03	38.05	25.27	25.08	26.32	-	28.81	10.54	23.5	21.43
Chloride	T			µg/L	-	-	504000	514500	270600	332700	520800	374400	714600	438400	523300	436000	563700	578600	535000	716100	-	178500	125000	146500	173500
Cyanide	T	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	**34**	**51**	**57**	**68**	**423**	**240**	**106**	**103**	**38**	**3**	**23**	**31**	**3**	**19**	**4**	-	**114**	**141**	**36**	**22**
Cyanide (free)	T	**1 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 10	**5**	**37**	**64**	< 25	**296**	**120**	**31**	**59**	< 1	**3**	< 1	< 1	**1**	< 1	< 1	< 10	< 100	**141**	**19**	-
Cyanides-complex	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	-	-	**14**	< 3	**68**	**127**	**120**	**75**	< 50	**38**	< 1	**23**	**31**	**2**	**19**	**4**	-	**114**	< 50	**17**	-
Dissolved Inorganic Carbon	T			mg/L	-	-	< 2	2	2	2	< 2	2	< 2	4	< 2	5	3	2	7	2	-	< 2	2	< 2	3
Inorganic nitrogen	T	See Table 16 (p24) of source document	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	-	2670	1700	1860	1130	7180	11730	440	840	7480	1020	8660	1100	1370	2970	-	-	70	920	120
Nitrate (as NO3-)	T			µg/L	< 200	-	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	300	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Nitrite	T			µg/L	100	-	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	70	< 20
Ortho Phosphate as P	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ortho Phosphate as PO4	T			mg/L	-	-	< 0.06	< 0.06	0.19	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	0.09	< 0.06	0.07	< 0.06	< 0.06	< 0.06	-	< 0.06	< 0.06	< 0.06	< 0.06
Sulphate As SO4	T			µg/L	-	642000	776000	794600	1031300	933300	993500	1006600	710400	467000	490800	301000	312200	329500	283800	331900	-	633700	343000	128800	446600
Sulphide	T			mg/L	-	-	< 0.01	< 0.01	0.06	0.03	0.02	< 0.01	0.04	< 0.01	0.03	< 0.01	0.02	< 0.01	< 0.01	< 0.01	-	0.76	0.01	< 0.01	0.04
Thiocyanate	T			µg/L	250	30	20	30	40	40	< 20	< 20	30	20	30	< 20	< 20	< 20	< 20	20	40	140	40	50	120
Sulphur	T			µg/L	-	-	308000	324810	372047	357186	438757	394947	263641	179467	195242	110000	168926	169051	155623	172488	-	339617	122000	43170	199440
Aluminium	D	**15 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	**301**	**188**	**73.2**	**1519.1**	**75.1**	**59.8**	**23.2**	6	13.1	5.2	**23.8**	**112.1**	5.9	**806.9**	-	**156**	**268**	**373.2**	**159**
Arsenic	D	**25 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 2.5	1.5	2.5	4.3	3.3	7.4	6.9	4.7	7.4	20.2	7.3	23.2	9.1	21.3	**29**	22.5	< 2.5	4.3	13.7	1.5	8
Barium	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96	-	-	-	-
Beryllium	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.5	-	-	-	-
Boron	D	7000 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	59	62	83	124	146	195	161	132	228	328	199	448	199	391	400	377	70	219	185	87	255
Cadmium	D	**0.2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.5	< 0.03	0.06	0.05	< 0.03	< 0.03	0.04	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.04	< 0.5	0.11	0.03	0.04	< 0.03
Calcium	D			µg/L	-	451000	514000	461800	550000	460400	464400	611100	448200	332000	326800	192000	354700	184200	176300	191100	-	404500	113000	265000	246300
Chromium	D			µg/L	6.7	9	8.3	0.9	5.8	6.7	6.9	4.7	10.9	7.6	2.6	2.6	4.5	2.2	0.4	1.8	12.2	0.3	3.2	7.5	< 0.2

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by Arcadis
Analyte Group: All
Date Range: 15/09/2022 18/04/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S
				Date	04/10/2022	09/11/2022	09/01/2023	26/01/2023	14/02/2023	21/03/2023	25/05/2023	28/06/2023	02/08/2023	27/09/2023	25/10/2023	28/11/2023	11/01/2024	09/02/2024	19/03/2024	18/04/2024	05/10/2022	08/11/2022	10/01/2023	26/01/2023	15/02/2023
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																					
Methyl N-Amyl Ketone	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	349	-
Trivalent Chromium (CrIII)	D			µg/L	6.7	9	8.3	0.9	5.8	6.7	6.9	-	-	-	-	-	-	-	-	-	12.2	0.3	3.2	7.5	< 0.2
Hexavalent Chromium (CrVI)	T	**0.6 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 6	-	-	-	< 6	< 6	-	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	-	-	-	< 6
Cobalt	D	3 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	D	**3.76 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**9**	3	**4**	< 1	< 3	< 1	< 1	< 3	< 1	< 1	< 3	< 1	< 3	< 1	< 1	**7**	< 7	< 1	< 1	3	< 3
Iron	D	**1000 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	-	52	51.1	33.8	24.1	131.9	33.1	25.6	17.9	14.3	10.6	12	14.5	137.9	12.8	441.5	-	31.3	57.2	21.3	6.9
Lead	D	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 5	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	**5**	0.9	< 0.4	**5**	< 5	< 0.4	< 0.4	< 0.4	< 0.4
Magnesium	D			µg/L	-	< 100	< 100	100	300	2000	< 100	300	300	1500	100	1900	200	2100	2600	2600	-	< 100	400	< 100	100
Manganese	D			µg/L	< 2	< 1.5	1.7	< 1.5	2.9	79.2	2.2	< 1.5	4.5	3.8	< 1.5	4.6	< 1.5	29.1	6.3	65.8	< 2	1.7	7.1	< 1.5	< 1.5
Mercury	D	**0.07 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 1	< 0.01	0.01	0.03	0.06	0.04	< 0.01	0.01	< 0.01	< 0.05	0.01	< 0.05	< 0.01	0.01	< 0.01	< 0.01	< 1	**0.12**	0.02	**0.13**	< 0.04
Molybdenum	D			µg/L	-	-	229	186.1	83.7	87.6	120.4	143.2	91.9	75.5	117	47.1	168	58.8	50.9	38.7	-	208.5	113	148.2	162.2
Nickel	D	**8.6 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	3	0.5	3.4	2.7	1.9	2	2	2	1.9	1.9	0.4	2	1.5	2.2	2.1	3.2	3	2.3	1.2	3.3	1.8
Potassium	D			µg/L	-	34700	76300	75600	60100	59500	85900	100300	59200	60400	77600	55200	68400	58200	57700	55500	-	56100	32700	60800	54400
Selenium	D			µg/L	-	-	-	-	4.9	< 1.2	-	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	7	-	-	-	< 1.2
Silicon	D			ug/L	-	-	4680	8138	15764	29465	14804	24005	21668	19692	18549	22500	27597	17593	26357	28998	-	3232	7640	2825	8665
Sodium	D			µg/L	-	189000	382000	301600	190700	183400	271100	586100	196000	234300	330600	319000	427200	331500	335400	348400	-	165300	92700	200400	177900
Vanadium	D	**100 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	7.1	-	-	-	66	54.3	-	22.9	15	9.1	15.2	4.3	11.9	4.9	3.4	7.5	< 1.5	-	-	-	< 0.6
Zinc	D	**6.8 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 3	2	1.8	2.6	1.8	3.6	-	< 1.5	2.2	< 1.5	< 1.5	1.6	2.6	4.9	2.1	**42.1**	< 3	3.4	3.4	2.9	< 1.5
2-chloronaphthalene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
3-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-bromophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Chlorophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Azobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzyl Butyl Phthalate	T	0.75 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Chloroethoxy)methane	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
bis(2-Chloroethyl)ether	T			µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bis(2-ethylhexyl) phthalate	T	1.3 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbazole	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloroaniline, p-	T			µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Diethyl Phthalate	T	200 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dimethyl Phthalate	T	800 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Di-n-butyl phthalate	T	8 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Di-n-octyl phthalate	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	T	0.6 µg/l	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Hexachlorocyclopentadiene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachloroethane	T			µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isophorone	T			µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ISOPROPYLTOLUENE, p-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Methylnaphthalene, 2-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
N-Nitrosodi-n-Propylamine	T			µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Resorcinol (m-dihydroxybenzene)	T			µg/L	-	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10
Acenaphthene	T			µg/L	0.014	0.01	0.035	0.041	0.019	0.01	0.015	0.008	0.022	0.005	0.047	0.017	0.025	0.016	0.012	0.011	< 0.005	0.011	0.051	0.029	0.038
Acenaphthylene	T			µg/L	< 0.005	0.007	0.037	0.037	0.03	0.004	< 0.005	0.007	0.031	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.034	0.029	0.031
Anthracene	T	0.1 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.005	< 0.005	0.036	0.059	0.03	0.004	0.005	< 0.005	0.035	< 0.005	< 0.005	0.006	< 0.005	0.005	< 0.005	< 0.005	0.019	< 0.005	0.076	0.059	0.05
Benzo(a)anthracene	T			µg/L	< 0.005	< 0.005	0.028	0.203	0.051	0.001	0.015	< 0.005	0.063	< 0.005	< 0.005	< 0.005	0.007	< 0.005	< 0.005	< 0.005	0.078	0.006	0.299	0.199	0.229
Benzo(a)pyrene	T	**0.00017 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.005	< 0.005	**0.014**	**0.073**	**0.049**	**0.00039**	**0.008**	**0.005**	**0.049**	< 0.005	< 0.002	< 0.005	**0.005**	< 0.005	< 0.005	**0.005**	**0.103**	< 0.005	**0.233**	**0.18**	**0.209**
Benzo(b)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.008	< 0.008	**0.025**	**0.149**	**0.06**	< 0.001	**0.02**	< 0.008	**0.103**	< 0.008	< 0.005	< 0.008	0.009	< 0.008	< 0.008	< 0.008	**0.148**	< 0.008	**0.474**	**0.317**	**0.379**
Benzo(b+k)fluoranthene	T	**0.017 µg/L**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal for benzo(b)fluoranthene/benzo(k)fluoranthene*	µg/L	< 0.008	< 0.008	**0.034**	**0.207**	**0.083**	< 0.001	**0.028**	< 0.008	**0.143**	< 0.008	< 0.01	< 0.008	0.013	< 0.008	< 0.008	0.011	**0.205**	0.008	**0.659**	**0.44**	**0.526**
Benzo(g,h,i)perylene	T	**0.00082 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.005	< 0.005	**0.008**	**0.041**	< 0.005	< 0.001	**0.008**	< 0.005	**0.033**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.065**	< 0.005	**0.166**	**0.118**	**0.133**
Benzo(k)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.008	< 0.008	0.01	**0.058**	**0.023**	< 0.001	< 0.008	< 0.008	**0.04**	< 0.008	< 0.005	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	**0.057**	< 0.008	**0.185**	**0.123**	**0.147**
Chrysene	T			µg/L	< 0.005	< 0.005	0.032	0.186	0.086	0.001	0.017	< 0.015	0.135	< 0.005	< 0.005	< 0.005	0.008	< 0.005	< 0.005	< 0.005	0.108	0.008	0.343	0.33	0.254
Dibenz(a,h)anthracene	T			µg/L	< 0.005	< 0.005	< 0.005	0.005	< 0.005	< 0.0009	< 0.005	< 0.005	0.007	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.041	0.02	0.011
Fluoranthene	T	**0.0063 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	0.005	< 0.005	**0.111**	**0.285**	**0.179**	**0.01**	**0.034**	0.005	**0.301**	< 0.005	**0.009**	**0.022**	**0.016**	**0.016**	**0.02**	**0.02**	**0.209**	**0.024**	**0.641**	**0.397**	**0.404**
Fluorene	T			µg/L	0.012	< 0.005	0.048	0.05	0.028	0.01	0.014	0.007	0.023	0.006	0.015	0.018	0.015	0.016	0.014	0.012	< 0.005	< 0.005	0.038	0.03	0.031
Indeno(1,2,3-c,d)pyrene	T	Refer to result for benzo(a)pyrene as indicative of overall PAH risk	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 0.005	< 0.005	0.009	0.047	< 0.005	< 0.001	< 0.005	< 0.005	0.027	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.069	< 0.005	0.213	0.128	0.177
Naphthalene	T	**2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	**6.3**
Phenanthrene	T			µg/L	0.019	< 0.005	0.217	0.266	0.178	0.02	0.026	0.01	0.198	< 0.005	0.017	0.054	0.02	0.025	0.042	0.021	0.084	0.018	0.243	0.156	0.142
Pyrene	T			µg/L	0.006	< 0.005	0.087	0.24	0.173	0.007	0.028	0.006	0.195	< 0.005	0.007	0.021	0.013	0.013	0.016	0.017	0.185	0.018	0.605	0.389	0.349
PAH (Sum of 16)	T			µg/L	0.256	< 0.173	0.796	1.94	0.906	0.21539	0.398	< 0.173	1.262	< 0.173	0.525	0.338	< 0.173	0.191	0.204	0.197	1.125	< 0.173	3.642	2.504	8.884
1,1,1,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,2,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,1-Dichloroethene	T	1 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,1-dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2,3-trichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by Arcadis
Analyte Group: All
Date Range: 15/09/2022 18/04/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

			Location	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH101S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S
			Date	04/10/2022	09/11/2022	09/01/2023	26/01/2023	14/02/2023	21/03/2023	25/05/2023	28/06/2023	02/08/2023	27/09/2023	25/10/2023	28/11/2023	11/01/2024	09/02/2024	19/03/2024	18/04/2024	05/10/2022	08/11/2022	10/01/2023	26/01/2023	15/02/2023
			Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
Methyl N-Amyl Ketone	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	349	-
1,2,4-Trimethylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2-dibromo-3-chloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dibromoethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3,5-Trimethylbenzene (Mesitylene)	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,3-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2,2-Dichloropropane	T	2 µg/L	*Laboratory LOD used*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
4-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromobenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromodichloromethane	T	4 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromoform	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroform	T	2.5 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
cis-1,2-dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
cis-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibromochloromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Ethylbenzene	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 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
n-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
n-Propylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
sec-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
tert-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	ug/L	6	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	10	< 5	< 5	< 5
trans-1,2-Dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
trans-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Trichlorofluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 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
m-& p-Xylenes	T	2 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-	-	-	-	-	-	-	-	< 3	< 3	< 3	< 3	< 3
o-Xylene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sum of Tetrachloroethene + Trichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	< 6	< 6	< 6	< 6	< 6	< 6	< 6	-	-	-	-	-	-	-	-	< 6	< 6	< 6	< 6	< 6
Volatile TIC	T			none	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	-	0
Aliphatics >C5-C6	T			µg/L	42	< 10	< 10	< 10	< 10	< 10	< 10	13	< 10	< 10	< 10	< 10	< 10	< 10	< 10	98	39	22	79	39
Aliphatics >C5-C35	T			µg/L	-	127	-	-	-	-	-	-	-	-	-	-	-	-	-	1271	148	-	-	-
Aliphatics >C5-C44	T			µg/L	945	-	27	23	22	12	21	54	< 10	< 10	20	14	17	27	< 10	13	-	148	76	772	143
Aliphatics >C6-C8	T			µg/L	98	16	< 10	< 10	< 10	< 10	< 10	11	< 10	< 10	< 10	< 10	< 10	< 10	< 10	184	11	12	90	20
Aliphatics >C8-C10	T			µg/L	805	111	27	23	22	12	21	30	< 10	< 10	20	14	17	27	< 10	13	989	98	42	603	84
Aliphatics >C10-C12	T			µg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Aliphatics >C12-C16	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C16-C21	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C16-C35	T			µg/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	-	-	-	-	-	-	-	-	< 20	< 20	< 20	< 20	< 20
Aliphatics >C21-C35	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C35-C44	T			µg/L	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10
Aromatics >C5-C7	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C5-C35	T			µg/L	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	73	< 10	-	-	-
Aromatics >C5-C44	T			µg/L	26	-	< 10	< 10	< 10	< 10	< 10	13	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	46	< 10
Aromatics >C7-C8	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	11	< 10	< 10	< 10	< 10
Aromatics >C8-C10	T			µg/L	26	16	< 10	< 10	< 10	< 10	< 10	13	< 10	< 10	< 10	< 10	< 10	< 10	< 10	52	< 10	< 10	46	< 10
Aromatics >C10-C12	T			µg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Aromatics >C12-C16	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10	< 10	< 10	< 10	< 10
Aromatics >C16-C21	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C21-C35	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C35-C44	T			µg/L	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10
Aliphatics & Aromatics >C5-C35	T			µg/L	-	143	-	-	-	-	-	-	-	-	-	-	-	-	-	1344	148	-	-	-
Aliphatics & Aromatics >C5-C44	T			µg/L	971	-	27	23	22	12	21	67	< 10	< 10	20	14	17	27	< 10	13	-	148	76	818	143

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by Arcadis
Analyte Group: All
Date Range: 15/09/2022 18/04/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S
				Date	22/03/2023	25/05/2023	29/06/2023	08/02/2024	19/03/2024	18/04/2024	15/09/2022	02/11/2022	13/12/2022	19/01/2023	14/02/2023	21/03/2023	24/05/2023	30/06/2023	26/07/2023	31/08/2023	25/09/2023	31/10/2023	30/11/2023	09/01/2024	06/02/2024
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
Methyl N-Amyl Ketone	T			ug/L	-	206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexathiane	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOC TICs	T			µg/L	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dibutyltin	T			µg/L	-	-	-	-	-	-	-	-	< 0.1	< 0.1	-	-	-	-	-	-	-	-	-	-	-
Tributyltin	T	0.0002 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	< 0.1	< 0.1	-	-	-	-	-	-	-	-	-	-	-
Triphenyltin	T	0.008 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	< 0.1	< 0.1	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dinitrotoluene, 2,4-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dinitrotoluene, 2,6-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Nitrobenzene	T			µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichlorobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,3-Dichlorobenzene	T	2 µg/L	*Laboratory LOD used*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,4-Dichlorobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2,3-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2,4-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Hexachlorobenzene	T	0.05 µg/l	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1-Naphthol	T			mg/L	< 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	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,3,5-Trimethylphenol	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4,5-Trichlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4,6-Trichlorophenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	T	0.42 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dimethylphenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorophenol	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Isopropylphenol	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-methylphenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 10	< 100	< 10	< 10	< 10	< 10	< 0.5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Nitrophenol	T			µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
3/4-Methylphenol (m/p-cresol)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 20	< 200	< 20	< 20	< 20	< 20	-	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
4-Chloro-3-methylphenol	T	40 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4-Methylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	**1**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Nitrophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Catechol (o-dihydroxybenzene)	T			mg/L	< 0.01	< 0.1	< 0.5	< 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	< 0.01	< 0.01
Cresol Total	T			µg/L	< 30	< 30	< 30	< 30	< 30	< 30	-	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Pentachlorophenol	T	0.4 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Phenol	T	**7.7 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Speciated Phenols	T			mg/L	< 0.1	< 0.1	< 5	< 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
Total Speciated Phenols	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenols	T			µg/L	< 60	< 60	< 60	< 60	< 60	< 60	-	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60
Dissolved Organic Carbon	T			mg/L	91	153	77	75	56	19	-	3	6	5	3	5	4	2	< 2	3	4	4	< 2	2	3
pH (Lab)	T			pH units	10.56	12.11	10.1	8.51	10.57	8.74	-	7.74	7.74	7.76	7.82	7.67	7.63	7.88	7.73	7.62	7.87	7.43	7.81	7.71	7.4
Suspended solids (NEN-EN 872)	T			mg/L	-	-	-	-	-	-	-	-	-	53	-	37	39	-	-	-	-	-	-	-	-
Total Suspended Solids	T			mg/L	23	106	52	112	67	154	-	49	29	-	51	-	-	16	17	23	33	15	12	21	13
% Cation Excess	T			%	-2.83	82.19	3.09	1.52	-7.55	23.25	-	6.71	4.98	7.85	6.78	1.64	4.86	-3.37	2.54	2.22	1.54	9.2	7.54	5.89	10.66
Alkalinity, Total (as CaCO3)	T			mg/L	108	602	116	88	146	70	-	154	154	154	136	134	144	140	138	140	140	144	154	150	158
Ammoniacal Nitrogen as N	T	**21 µg/l**	*Value for un-ionised ammonia, WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**150**	**640**	**200**	**90**	< 600	**110**	**140**	**190**	**200**	**190**	**190**	**170**	**150**	**150**	**170**	**150**	**200**	**230**	**190**	**170**	**180**
Anions Total	T			mmolc/l	17.28	17.76	13.65	10.36	9.55	5	-	37.87	35.76	36.43	34.99	37.17	33.68	36.04	32.98	33.23	33.91	34.97	32.74	33.4	33.57
Cation, total	T			mmolc/l	16.33	181.65	14.52	10.68	8.21	8.03	-	43.32	39.51	42.64	40.08	38.41	37.12	33.69	34.7	34.74	34.97	42.06	38.08	37.58	41.58
Chloride	T			µg/L	190700	124700	140600	176800	119400	32400	-	65100	58300	56700	62600	66800	88700	74400	72300	64900	66800	76500	92300	152800	174700
Cyanide	T	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**619**	**61**	**487**	**2**	**5**	< 1	-	**12**	**22**	**10**	**13**	**6**	**10**	**10**	**11**	**9**	**14**	**21**	**7**	**13**	**39**
Cyanide (free)	T	**1 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	**372**	< 50	**99**	**2**	< 1	< 1	< 10	**1**	**7**	**4**	**7**	**4**	< 1	**5**	**5**	**3**	**10**	< 50	**2**	**2**	**34**
Cyanides-complex	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	**247**	**61**	**388**	< 1	**5**	< 1	-	**11**	**15**	**6**	**6**	**2**	**10**	**5**	**6**	**6**	**4**	< 10	**5**	**11**	**5**
Dissolved Inorganic Carbon	T			mg/L	2	< 2	2	8	2	4	-	32	32	31	32	31	30	31	31	31	31	32	33	33	34
Inorganic nitrogen	T	See Table 16 (p24) of source document	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	210	670	200	90	< 50	190	-	-	350	910	190	1010	1040	1230	770	770	270	230	190	260	180
Nitrate (as NO3-)	T			µg/L	300	< 200	< 200	< 200	< 200	300	300	800	600	3100	< 200	3700	3900	4500	2600	2700	300	< 200	< 200	400	< 200
Nitrite	T			µg/L	< 20	90	< 20	< 20	< 20	40	310	< 20	60	40	< 20	< 20	< 20	180	50	< 20	< 20	< 20	< 20	< 20	< 20
Ortho Phosphate as P	T			mg/L	-	-	-	-	-	-	-	-	-	< 0.03	-	-	-	-	-	-	-	-	-	-	-	-
Ortho Phosphate as PO4	T			mg/L	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	-	< 0.06	< 0.06	-	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Sulphate As SO4	T			µg/L	467500	105800	353800	173500	156900	128700	-	1582400	1490000	1522700	1465000	1563000	1356200	1492400	1351400	1371700	1403500	1437600	1299400	1252900	1224000
Sulphide	T			mg/L	0.02	< 0.01	< 0.01	< 0.01	0.04	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02	0.01	< 0.01	< 0.01
Thiocyanate	T			µg/L	120	80	110	< 20	30	< 20	30	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Sulphur	T			µg/L	146296	43650	130388	63346	106937	42237	-	511478	589000	573690	580025	566239	495372	482844	483484	490425	462107	601235	589215	630592	604007
Aluminium	D	**15 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	**120.1**	**50**	**240.4**	**129.3**	**129.8**	**6243.9**	-	**16**	5.4	6	5.7	6.2	6.1	4.7	1.9	2.4	4.1	5	**192.3**	4.9	14.9
Arsenic	D	**25 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	11.5	2.5	13.7	4.7	10.9	11.4	3.7	3.6	2.9	2.8	5.4	3	2.5	2.3	< 0.9	3.4	2.9	3.4	4.3	2.9	2.5
Barium	D			µg/L	-	-	-	-	-	-	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	D			µg/L	-	-	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	D	7000 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	337	95	298	159	182	129	943	958	1040	967	997	1003	876	1009	919	883	886	973	1004	773	764
Cadmium	D	**0.2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	0.07	< 0.03	0.07	< 0.03	< 0.03	**0.73**	< 0.5	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Calcium	D			µg/L	172500	862100	147400	89400	94600	111700	-	613900	554000	609500	551600	516000	500000	437300	446500	453000	452100	526900	519000	501000	550800
Chromium	D			µg/L	3.1	6.1	5.4	5.4	0.3	9.5	< 1.5	< 0.2	< 0.2	1.8	6.8	9.6	0.9	5	0.6	2.8	3.1	6.6	9.2	10.6	3.7

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by Arcadis
Analyte Group: All
Date Range: 15/09/2022 18/04/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S
				Date	22/03/2023	25/05/2023	29/06/2023	08/02/2024	19/03/2024	18/04/2024	15/09/2022	02/11/2022	13/12/2022	19/01/2023	14/02/2023	21/03/2023	24/05/2023	30/06/2023	26/07/2023	31/08/2023	25/09/2023	31/10/2023	30/11/2023	09/01/2024	06/02/2024
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
Methyl N-Amyl Ketone	T			ug/L	-	206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trivalent Chromium (CrIII)	D			µg/L	3.1	6.1	-	-	-	-	< 6	< 0.2	< 0.2	1.8	6.8	9.6	0.9	-	-	-	-	-	-	-	-
Hexavalent Chromium (CrVI)	T	**0.6 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 6	-	< 6	< 6	< 6	< 6	< 6	-	-	-	< 6	< 6	-	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Cobalt	D	3 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	D	**3.76 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 1	< 3	< 1	< 1	< 1	**15**	< 7	< 1	< 1	< 3	< 3	< 1	< 1	< 1	< 3	< 3	< 1	< 1	< 1	< 1	< 1
Iron	D	**1000 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	17.9	23.8	13.5	50.5	9.1	**3339.4**	-	662	426	377.4	433.1	470.8	265.9	198.8	168.1	176.8	340.9	558.5	**1174**	398.7	324
Lead	D	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.4	< 0.4	< 0.4	0.4	< 0.4	**141.1**	< 5	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.9	< 0.4	< 0.4
Magnesium	D			µg/L	1000	< 100	< 100	9600	500	8300	-	93500	90800	102300	98800	101000	92300	91400	96300	95100	97300	103100	86700	79600	79700
Manganese	D			µg/L	< 1.5	< 1.5	< 1.5	171.7	< 1.5	912.5	2510	3462.1	3190	2378.6	2607.4	2857.2	2563.7	2513.6	2549.7	2371.4	3183.3	3457	3087.8	2393.5	2120.5
Mercury	D	**0.07 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.04	< 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	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Molybdenum	D			µg/L	253.7	138	229.6	41.1	91.3	9.7	-	64.5	69.1	51	49.8	62	61.8	63.3	50.2	49.4	59.6	54.8	62.7	58.8	55
Nickel	D	**8.6 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	1.5	4.5	1.9	1.8	1.7	8.4	< 2	1.5	1.4	0.9	1.2	1.3	1.6	1.3	< 0.2	1.5	1.1	1.1	2.4	1.2	1.3
Potassium	D			µg/L	50600	146100	41700	31700	25200	15700	-	64800	59100	58900	61400	58100	54900	54400	55600	54400	54100	55900	55400	53100	59000
Selenium	D			µg/L	2.7	-	2.6	< 1.2	< 1.2	1.6	< 3	-	-	-	< 1.2	4.4	-	10.8	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	2.1	< 1.2
Silicon	D			ug/L	7132	1921	14539	6554	16850	25111	-	6402	6580	6873	6550	6574	6492	7008	6632	6477	6594	6352	6702	6174	6087
Sodium	D			µg/L	145900	3101300	140100	106100	64400	31400	-	76800	66300	52900	65700	65900	72900	68000	70700	67100	69500	134700	83400	107400	138600
Vanadium	D	**100 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	4.9	-	2.8	4.7	5.5	48.9	< 1.5	-	-	-	< 0.6	< 0.6	-	0.8	< 0.6	< 0.6	0.6	0.9	1.4	< 0.6	0.8
Zinc	D	**6.8 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	2.1	-	1.5	**7.5**	1.7	**356.2**	< 3	< 1.5	1.7	4.3	2.7	2	-	1.6	< 1.5	3.1	1.5	< 1.5	3.6	1.5	4.2
2-chloronaphthalene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
3-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-bromophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Chlorophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Azobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzyl Butyl Phthalate	T	0.75 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Chloroethoxy)methane	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
bis(2-Chloroethyl)ether	T			µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bis(2-ethylhexyl) phthalate	T	1.3 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbazole	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloroaniline, p-	T			µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Diethyl Phthalate	T	200 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dimethyl Phthalate	T	800 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Di-n-butyl phthalate	T	8 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Di-n-octyl phthalate	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	T	0.6 µg/l	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Hexachlorocyclopentadiene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachloroethane	T			µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isophorone	T			µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ISOPROPYLTOLUENE, p-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Methylnaphthalene, 2-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
N-Nitrosodi-n-Propylamine	T			µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Resorcinol (m-dihydroxybenzene)	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthene	T			µg/L	0.048	0.074	0.033	0.014	0.027	0.016	< 0.005	< 0.005	< 0.005	0.009	< 0.005	< 0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005	0.011
Acenaphthylene	T			µg/L	0.013	0.041	0.008	< 0.005	0.046	0.023	< 0.005	< 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
Anthracene	T	0.1 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	0.028	0.06	0.011	0.016	0.098	0.056	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.001	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(a)anthracene	T			µg/L	0.083	0.24	0.021	0.027	0.405	0.27	< 0.005	0.007	< 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
Benzo(a)pyrene	T	**0.00017 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	**0.062**	**0.237**	< 0.005	**0.028**	**0.436**	**0.343**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(b)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	**0.132**	**0.488**	**0.023**	**0.045**	**0.574**	**0.447**	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.001	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Benzo(b+k)fluoranthene	T	**0.017 µg/L**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal for benzo(b)fluoranthene/benzo(k)fluoranthene*	µg/L	**0.183**	**0.678**	**0.032**	**0.063**	**0.797**	**0.621**	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.001	< 0.005	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Benzo(g,h,i)perylene	T	**0.00082 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	**0.029**	**0.178**	< 0.005	**0.025**	**0.301**	**0.241**	< 0.005	< 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
Benzo(k)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	**0.051**	**0.19**	0.009	**0.018**	**0.223**	**0.174**	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.001	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Chrysene	T			µg/L	0.119	0.377	0.041	0.031	0.419	0.303	< 0.005	0.009	< 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
Dibenz(a,h)anthracene	T			µg/L	0.006	0.041	< 0.005	0.007	0.064	0.047	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoranthene	T	**0.0063 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	**0.196**	**0.528**	**0.099**	**0.094**	**0.827**	**0.632**	0.005	**0.012**	< 0.005	**0.008**	**0.011**	0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.008**	< 0.005	**0.009**
Fluorene	T			µg/L	0.026	0.063	0.022	0.012	0.029	0.016	< 0.005	< 0.005	< 0.005	0.007	< 0.005	< 0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005	0.009
Indeno(1,2,3-c,d)pyrene	T	Refer to result for benzo(a)pyrene as indicative of overall PAH risk	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	0.067	0.213	< 0.005	0.028	0.311	0.236	< 0.005	< 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
Naphthalene	T	**2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Phenanthrene	T			µg/L	0.099	0.234	0.057	0.048	0.209	0.116	0.01	< 0.005	< 0.005	0.023	< 0.005	< 0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.008	< 0.005	0.019
Pyrene	T			µg/L	0.175	0.458	0.085	0.072	0.786	0.591	0.005	0.014	< 0.005	0.012	0.014	0.003	< 0.005	0.007	< 0.005	0.006	0.006	< 0.005	0.012	0.005	0.008
PAH (Sum of 16)	T			µg/L	1.134	3.722	0.509	0.465	4.755	3.511	< 0.173	< 0.173	< 0.173	< 0.173	< 0.173	< 0.013	< 0.173	< 0.173	< 0.173	< 0.173	< 0.173	< 0.173	< 0.173	< 0.173	< 0.173
1,1,1,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,2,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,1-Dichloroethene	T	1 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,1-dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2,3-trichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by Arcadis
Analyte Group: All
Date Range: 15/09/2022 18/04/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

			Location	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	F-BH102S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S	MS\BH04S
			Date	22/03/2023	25/05/2023	29/06/2023	08/02/2024	19/03/2024	18/04/2024	15/09/2022	02/11/2022	13/12/2022	19/01/2023	14/02/2023	21/03/2023	24/05/2023	30/06/2023	26/07/2023	31/08/2023	25/09/2023	31/10/2023	30/11/2023	09/01/2024	06/02/2024
			Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
Methyl N-Amyl Ketone	T			ug/L	-	206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2-dibromo-3-chloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dibromoethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3,5-Trimethylbenzene (Mesitylene)	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,3-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2,2-Dichloropropane	T	2 µg/L	*Laboratory LOD used*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
4-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromobenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromodichloromethane	T	4 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromoform	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroform	T	2.5 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
cis-1,2-dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
cis-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibromochloromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Ethylbenzene	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 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
n-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
n-Propylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
sec-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
tert-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
trans-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Trichlorofluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 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
m-& p-Xylenes	T	2 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 3	< 3	-	-	-	-	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-	-	-	-	-	-	-	-
o-Xylene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sum of Tetrachloroethene + Trichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	< 6	< 6	-	-	-	-	< 6	< 6	< 6	< 6	< 6	< 6	< 6	-	-	-	-	-	-	-	-
Volatile TIC	T			none	0	-	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aliphatics >C5-C6	T			µg/L	23	65	28	< 10	15	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C5-C35	T			µg/L	-	-	-	-	-	-	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatics >C5-C44	T			µg/L	100	626	79	86	45	18	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C6-C8	T			µg/L	15	48	12	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C8-C10	T			µg/L	62	513	39	76	30	18	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C10-C12	T			µg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Aliphatics >C12-C16	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C16-C21	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C16-C35	T			µg/L	< 20	< 20	-	-	-	-	< 20	< 20	< 20	< 20	< 20	< 20	< 20	-	-	-	-	-	-	-	-
Aliphatics >C21-C35	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C35-C44	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C5-C7	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C5-C35	T			µg/L	-	-	-	-	-	-	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatics >C5-C44	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C7-C8	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C8-C10	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C10-C12	T			µg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Aromatics >C12-C16	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C16-C21	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C21-C35	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C35-C44	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics & Aromatics >C5-C35	T			µg/L	-	-	-	-	-	-	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatics & Aromatics >C5-C44	T			µg/L	100	626	79	86	45	18	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by Arcadis
Analyte Group: All
Date Range: 15/09/2022 18/04/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH04S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D
				Date	20/03/2024	05/10/2022	09/11/2022	13/12/2022	19/01/2023	15/02/2023	20/03/2023	22/05/2023	06/07/2023	04/08/2023	05/09/2023	29/09/2023	30/10/2023	28/11/2023	10/01/2024	08/02/2024	27/03/2024	16/09/2022	01/11/2022	10/01/2023	18/01/2023
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																					
Methyl N-Amyl Ketone	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexathiane	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOC TICs	T			µg/L	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0
Dibutyltin	T			µg/L	-	-	-	< 0.1	< 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.1	< 0.1
Tributyltin	T	0.0002 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	< 0.1	< 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.1	< 0.1
Triphenyltin	T	0.008 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	< 0.1	< 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.1	< 0.1
Dibenzofuran	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dinitrotoluene, 2,4-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dinitrotoluene, 2,6-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Nitrobenzene	T			µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichlorobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,3-Dichlorobenzene	T	2 µg/L	*Laboratory LOD used*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,4-Dichlorobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2,3-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2,4-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Hexachlorobenzene	T	0.05 µg/l	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1-Naphthol	T			mg/L	< 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	< 0.01	-	< 0.01	< 0.01	< 0.01
2,3,5-Trimethylphenol	T			µg/L	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10
2,4,5-Trichlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4,6-Trichlorophenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	T	0.42 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dimethylphenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorophenol	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Isopropylphenol	T			µg/L	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10
2-methylphenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 10	< 0.5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 0.5	< 10	< 10	< 10
2-Nitrophenol	T			µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
3/4-Methylphenol (m/p-cresol)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 20	-	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	-	< 20	< 20	< 20
4-Chloro-3-methylphenol	T	40 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4-Methylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Nitrophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Catechol (o-dihydroxybenzene)	T			mg/L	< 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	< 0.01	-	< 0.01	< 0.01	< 0.01
Cresol Total	T			µg/L	< 30	-	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	-	< 30	< 30	< 30
Pentachlorophenol	T	0.4 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Phenol	T	**7.7 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Speciated Phenols	T			mg/L	< 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
Total Speciated Phenols	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenols	T			µg/L	< 60	-	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	-	< 60	< 60	< 60
Dissolved Organic Carbon	T			mg/L	2	-	5	8	8	7	5	7	5	4	8	8	7	8	7	6	7	-	6	6	5
pH (Lab)	T			pH units	7.4	-	8.05	7.88	7.97	8.01	7.73	8.13	7.62	7.53	7.99	8.13	7.98	8.05	8.01	10.02	7.78	-	9.81	9.9	10.11
Suspended solids (NEN-EN 872)	T			mg/L	-	-	-	-	47	42	20	-	-	-	-	-	-	-	-	-	-	-	-	-	23
Total Suspended Solids	T			mg/L	27	-	< 10	63	-	-	-	< 10	16	12	< 10	14	21	15	15	46	50	-	19	68	-
% Cation Excess	T			%	9.52	-	6.43	-0.79	11.98	3.2	8.64	7	0.47	9.77	1.12	-2.44	1.46	6.92	10.23	21.68	8.63	-	7.27	5.81	19.64
Alkalinity, Total (as CaCO3)	T			mg/L	160	-	170	172	172	168	156	160	172	154	154	166	164	162	182	56	166	-	42	58	50
Ammoniacal Nitrogen as N	T	**21 µg/l**	*Value for un-ionised ammonia, WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**190**	**4640**	**5000**	**4890**	**4640**	**4970**	**5020**	**4900**	**4750**	**4870**	**5090**	**5110**	**5010**	**5150**	**5100**	**1640**	**5960**	**2630**	**3130**	**3070**	**3180**
Anions Total	T			mmolc/l	32.83	-	49	48.65	44.39	48.15	47.78	43.08	46.35	44.63	44.04	46.82	43.79	45.44	56.75	24.15	43.35	-	19.71	21.32	20.87
Cation, total	T			mmolc/l	39.74	-	55.73	47.89	56.47	51.33	56.82	49.57	46.79	54.29	45.04	44.59	45.09	52.2	69.68	37.52	51.54	-	22.8	23.95	31.07
Chloride	T			µg/L	165100	-	1346100	1320000	1140100	1304000	1281900	1126100	1212600	1162200	1162700	1253900	1133600	1200000	1527900	78900	1112900	-	67800	74900	75200
Cyanide	T	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**8**	-	**52**	**58**	**38**	**49**	**25**	**68**	**80**	**50**	**57**	**43**	**49**	**84**	**99**	**16**	**36**	-	**138**	**186**	**219**
Cyanide (free)	T	**1 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	**1**	**20**	**19**	**11**	**17**	-	**14**	**22**	**27**	**16**	**33**	< 1	**24**	**8**	**13**	< 1	**17**	**270**	**7**	**158**	**22**
Cyanides-complex	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	**7**	-	**33**	**47**	**21**	-	**11**	**46**	**53**	**34**	**24**	**43**	**25**	**76**	**86**	**16**	**19**	-	**138**	< 30	**197**
Dissolved Inorganic Carbon	T			mg/L	35	-	38	39	37	39	38	39	39	39	37	39	37	37	39	< 2	37	-	< 2	< 2	< 2
Inorganic nitrogen	T	See Table 16 (p24) of source document	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	190	-	-	4890	4640	4970	5020	4900	4750	6190	5090	5110	5010	5150	5100	4250	5960	-	-	3070	3180
Nitrate (as NO3-)	T			µg/L	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	300	< 200	< 200
Nitrite	T			µg/L	< 20	< 20	190	< 20	< 20	< 20	< 20	< 20	< 20	4320	< 20	< 20	< 20	< 20	< 20	8570	< 20	< 20	< 20	< 20	< 20
Ortho Phosphate as P	T			mg/L	-	-	-	-	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ortho Phosphate as PO4	T			mg/L	< 0.06	-	0.06	0.19	-	0.13	0.26	0.3	0.46	0.31	0.36	0.45	0.45	0.18	0.42	< 0.06	0.47	-	< 0.06	< 0.06	< 0.06
Sulphate As SO4	T			µg/L	1199400	-	366600	383000	422100	384600	408000	389500	418000	421200	392000	390500	409700	401000	480900	999200	414700	-	814200	867000	852700
Sulphide	T			mg/L	< 0.01	-	< 0.01	< 0.1	< 0.01	< 0.01	< 0.01	< 0.1	< 0.01	< 0.01	< 0.05	< 0.01	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	0.02	< 0.01
Thiocyanate	T			µg/L	< 20	9540	70	8960	9610	7620	10080	10560	10670	10220	10290	11020	10470	10600	20570	70	< 20	230	240	280	280
Sulphur	T			µg/L	701755	-	130565	188000	174487	152382	144373	143974	140104	143043	159729	133548	179416	152000	260773	513617	198130	-	281271	339000	344520
Aluminium	D	**15 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	7.8	-	2.7	2.6	5.7	11.7	2.6	2	12.4	4.3	3.9	< 1.5	3.1	2.3	12.8	**182.3**	7.6	-	**45.9**	**54.6**	**56.3**
Arsenic	D	**25 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	2.8	8.6	8.4	9.5	6.3	7.4	9.4	7.5	9.8	7.4	4.3	6.1	7.7	8.1	9.1	5.5	6.1	10.8	17.8	14.9	15.7
Barium	D			µg/L	-	39	-	-	-	-	-	-	-	-	29.4	-	-	-	-	-	-	31	-	-	-
Beryllium	D			µg/L	-	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.5	-	-	-
Boron	D	7000 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	775	821	803	855	811	811	930	777	832	867	-	772	834	810	844	108	872	90	102	102	110
Cadmium	D	**0.2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.03	< 0.5	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.5	< 0.03	< 0.03	< 0.03
Calcium	D			µg/L	519200	-	79800	69500	68400	77000	75400	71300	66900	67200	71200	72000	67700	70800	87600	645000	74900	-	363700	377000	518000
Chromium	D			µg/L	4.4	3.2	< 0.2	0.3	1.7	< 0.2	6.6	3.9	3.8	5.1	6.8	2.2	3.8	2.9	2	4.6	0.3	< 1.5	< 0.2	1.2	7

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by Arcadis
Analyte Group: All
Date Range: 15/09/2022 18/04/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH04S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D
				Date	20/03/2024	05/10/2022	09/11/2022	13/12/2022	19/01/2023	15/02/2023	20/03/2023	22/05/2023	06/07/2023	04/08/2023	05/09/2023	29/09/2023	30/10/2023	28/11/2023	10/01/2024	08/02/2024	27/03/2024	16/09/2022	01/11/2022	10/01/2023	18/01/2023
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
Methyl N-Amyl Ketone	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trivalent Chromium (CrIII)	D			µg/L	-	3.2	< 0.2	0.3	1.7	< 0.2	6.6	3.9	-	-	-	-	-	-	-	-	-	< 6	< 0.2	1.2	7
Hexavalent Chromium (CrVI)	T	**0.6 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 6	< 6	-	-	-	< 6	< 6	-	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	-	-	-
Cobalt	D	3 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.1	-	-	-	-	-	-	-	-
Copper	D	**3.76 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 1	< 7	< 3	< 1	< 3	< 3	< 1	< 3	< 3	< 1	< 3	-	< 1	< 3	< 3	2	< 1	< 7	< 1	< 1	< 1
Iron	D	**1000 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	192.9	-	835.5	952	800.3	754.3	965.9	843.3	907.6	997.9	921.3	894.6	772.7	811	**1031**	37	459.3	-	7.8	39.4	24.1
Lead	D	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.4	< 5	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 5	< 0.4	< 0.4	< 0.4
Magnesium	D			µg/L	75500	-	59400	55700	56000	59300	57700	57900	57200	54700	58300	58700	54200	55400	77300	200	62300	-	200	< 100	< 100
Manganese	D			µg/L	2646.2	107	91.4	103	85.1	75.7	94.1	74.7	87.2	100.3	83.9	72.4	94	77.4	162.3	3.8	62.2	< 2	1.6	4.3	< 1.5
Mercury	D	**0.07 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.01	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.01	< 0.03	< 0.01	< 0.01	< 0.01	< 0.01	< 1	< 0.01	< 0.01	0.05
Molybdenum	D			µg/L	60	-	11	17.2	13.9	8.9	17.5	12.4	13.3	17.3	13.9	11.7	18.1	13.6	16.9	43	17.3	-	33.6	39.8	36
Nickel	D	**8.6 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	1.3	< 2	0.2	0.3	< 0.2	0.8	0.4	< 0.2	2.9	0.3	2.1	< 0.2	0.3	< 0.2	< 0.2	1	0.3	< 2	0.8	1	1
Potassium	D			µg/L	61400	-	100200	86600	91400	97200	95600	92600	89900	88500	89900	91300	89300	91900	87400	102300	98100	-	78900	91700	94400
Selenium	D			µg/L	< 1.2	< 3	-	-	-	< 1.2	< 1.2	-	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	6.4	< 1.2	< 3	-	-	-
Silicon	D			ug/L	6559	-	3164	3390	3667	3283	3365	3588	3928	3750	3746	3911	3483	3410	3590	6369	3588	-	6565	6970	6883
Sodium	D			µg/L	139000	-	1018500	865000	1060100	922400	1054500	893900	838000	1015600	790700	777700	803900	960000	1303900	62100	923400	-	60100	64200	64500
Vanadium	D	**100 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	0.6	< 1.5	-	-	-	< 0.6	1.3	-	3.5	1.6	1.9	< 0.6	1.6	1.3	3.4	**204.4**	1	< 1.5	-	-	-
Zinc	D	**6.8 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**11.5**	< 3	< 1.5	< 1.5	2.6	< 1.5	< 1.5	-	6.2	1.9	4	< 1.5	< 1.5	1.6	2.8	2.6	< 1.5	< 3	< 1.5	2.2	1.5
2-chloronaphthalene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
3-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-bromophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Chlorophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Azobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzyl Butyl Phthalate	T	0.75 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Chloroethoxy)methane	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
bis(2-Chloroethyl)ether	T			µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bis(2-ethylhexyl) phthalate	T	1.3 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbazole	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloroaniline, p-	T			µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Diethyl Phthalate	T	200 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dimethyl Phthalate	T	800 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Di-n-butyl phthalate	T	8 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Di-n-octyl phthalate	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	T	0.6 µg/l	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Hexachlorocyclopentadiene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachloroethane	T			µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isophorone	T			µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ISOPROPYLTOLUENE, p-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Methylnaphthalene, 2-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
N-Nitrosodi-n-Propylamine	T			µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Resorcinol (m-dihydroxybenzene)	T			µg/L	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10
Acenaphthene	T			µg/L	< 0.005	< 0.005	< 0.005	0.012	0.013	0.005	0.003	0.008	< 0.005	0.006	0.006	< 0.005	0.009	0.008	0.015	0.452	< 0.005	0.789	0.298	0.343	1.223
Acenaphthylene	T			µg/L	< 0.005	< 0.005	< 0.005	0.01	< 0.005	0.007	< 0.001	< 0.005	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.057	< 0.005	0.015	< 0.005	< 0.005	< 0.005
Anthracene	T	0.1 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.005	< 0.005	< 0.005	0.006	0.005	< 0.005	0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	0.02	0.009
Benzo(a)anthracene	T			µg/L	< 0.005	< 0.005	< 0.005	< 0.005	0.006	< 0.005	< 0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005	0.008	0.01
Benzo(a)pyrene	T	**0.00017 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(b)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.001	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.005	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	0.009
Benzo(b+k)fluoranthene	T	**0.017 µg/L**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal for benzo(b)fluoranthene/benzo(k)fluoranthene*	µg/L	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.001	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.01	< 0.008	< 0.008	0.01	< 0.008	< 0.008	< 0.008	< 0.008	0.013
Benzo(g,h,i)perylene	T	**0.00082 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.005	< 0.005	< 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	< 0.005	< 0.005	< 0.005	< 0.005
Benzo(k)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.001	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.005	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Chrysene	T			µg/L	< 0.005	< 0.005	< 0.005	< 0.005	0.006	< 0.005	< 0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.006	0.007	0.011
Dibenz(a,h)anthracene	T			µg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0002	< 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
Fluoranthene	T	**0.0063 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	**0.007**	< 0.005	0.006	0.005	**0.014**	**0.008**	0.004	< 0.005	< 0.005	**0.01**	0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.043**	**0.011**	< 0.005	**0.017**	**0.034**	**0.028**
Fluorene	T			µg/L	< 0.005	< 0.005	0.005	0.009	0.007	0.005	0.003	0.006	< 0.005	< 0.005	0.005	< 0.005	< 0.005	0.009	0.007	0.188	0.005	0.106	0.041	0.007	0.259
Indeno(1,2,3-c,d)pyrene	T	Refer to result for benzo(a)pyrene as indicative of overall PAH risk	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 0.005	< 0.005	< 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	< 0.005	< 0.005	< 0.005	< 0.005
Naphthalene	T	**2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	**5**	< 2	**6**	**4.9**
Phenanthrene	T			µg/L	< 0.005	< 0.005	< 0.005	0.025	0.026	0.017	0.008	< 0.005	< 0.005	< 0.005	< 0.005	0.007	0.01	0.013	< 0.005	0.097	0.021	< 0.005	0.02	0.091	0.052
Pyrene	T			µg/L	0.008	< 0.005	0.01	0.01	0.019	0.01	0.005	0.005	0.006	0.012	0.006	< 0.005	< 0.005	< 0.005	0.005	0.034	0.014	< 0.005	0.019	0.034	0.031
PAH (Sum of 16)	T			µg/L	< 0.173	< 0.173	< 0.173	< 0.173	0.196	< 0.173	0.092	< 0.173	< 0.173	< 0.173	0.227	< 0.173	0.129	< 0.173	< 0.173	0.901	< 0.173	5.01	2.106	1.144	6.536
1,1,1,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,2,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,1-Dichloroethene	T	1 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,1-dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2,3-trichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by Arcadis
Analyte Group: All
Date Range: 15/09/2022 18/04/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

			Location	MS\BH04S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH13S	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D
			Date	20/03/2024	05/10/2022	09/11/2022	13/12/2022	19/01/2023	15/02/2023	20/03/2023	22/05/2023	06/07/2023	04/08/2023	05/09/2023	29/09/2023	30/10/2023	28/11/2023	10/01/2024	08/02/2024	27/03/2024	16/09/2022	01/11/2022	10/01/2023	18/01/2023
			Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																				
Methyl N-Amyl Ketone	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2-dibromo-3-chloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dibromoethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3,5-Trimethylbenzene (Mesitylene)	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,3-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2,2-Dichloropropane	T	2 µg/L	*Laboratory LOD used*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
4-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromobenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromodichloromethane	T	4 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromoform	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroform	T	2.5 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
cis-1,2-dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
cis-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibromochloromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Ethylbenzene	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 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
n-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
n-Propylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
sec-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
tert-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
trans-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Trichlorofluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 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
m-& p-Xylenes	T	2 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	< 3	< 3	< 3	< 3	< 3	< 3	-	-	-	-	-	-	< 3	< 3	< 3	< 3	< 3	< 3	< 3
o-Xylene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sum of Tetrachloroethene + Trichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	-	< 6	< 6	< 6	< 6	< 6	< 6	< 6	-	-	-	-	-	-	-	-	-	< 6	< 6	< 6	< 6
Volatile TIC	T			none	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0
Aliphatics >C5-C6	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C5-C35	T			µg/L	-	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 10	< 10	-	-
Aliphatics >C5-C44	T			µg/L	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10
Aliphatics >C6-C8	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C8-C10	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C10-C12	T			µg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Aliphatics >C12-C16	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C16-C21	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C16-C35	T			µg/L	-	< 20	< 20	< 20	< 20	< 20	< 20	< 20	-	-	-	-	-	-	-	-	-	< 20	< 20	< 20	< 20
Aliphatics >C21-C35	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C35-C44	T			µg/L	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10
Aromatics >C5-C7	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C5-C35	T			µg/L	-	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 10	< 10	-	-
Aromatics >C5-C44	T			µg/L	< 10	-	< 10	< 10	< 10	8873	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10
Aromatics >C7-C8	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C8-C10	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C10-C12	T			µg/L	< 5	< 5	< 5	< 5	< 5	13	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Aromatics >C12-C16	T			µg/L	< 10	< 10	< 10	< 10	< 10	420	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C16-C21	T			µg/L	< 10	< 10	< 10	< 10	< 10	1750	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C21-C35	T			µg/L	< 10	< 10	< 10	< 10	< 10	3990	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C35-C44	T			µg/L	< 10	-	< 10	< 10	< 10	2700	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10
Aliphatics & Aromatics >C5-C35	T			µg/L	-	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 10	< 10	-	-
Aliphatics & Aromatics >C5-C44	T			µg/L	< 10	-	< 10	< 10	< 10	8873	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by Arcadis
Analyte Group: All
Date Range: 15/09/2022 18/04/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D
				Date	13/02/2023	20/03/2023	30/05/2023	29/06/2023	27/07/2023	31/08/2023	26/09/2023	24/10/2023	29/11/2023	09/01/2024	06/02/2024	18/03/2024	15/09/2022	02/11/2022	12/12/2022	26/01/2023	14/02/2023	22/03/2023	30/05/2023	06/07/2023	28/07/2023
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																					
Methyl N-Amyl Ketone	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexathiane	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOC TICs	T			µg/L	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0
Dibutyltin	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.1	-	-	-	-	-	-
Tributyltin	T	0.0002 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.1	-	-	-	-	-	-
Triphenyltin	T	0.008 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.1	-	-	-	-	-	-
Dibenzofuran	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dinitrotoluene, 2,4-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dinitrotoluene, 2,6-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Nitrobenzene	T			µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichlorobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,3-Dichlorobenzene	T	2 µg/L	*Laboratory LOD used*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,4-Dichlorobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2,3-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2,4-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Hexachlorobenzene	T	0.05 µg/l	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1-Naphthol	T			mg/L	< 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	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,3,5-Trimethylphenol	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4,5-Trichlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4,6-Trichlorophenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	T	0.42 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dimethylphenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorophenol	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Isopropylphenol	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-methylphenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 0.5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Nitrophenol	T			µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
3/4-Methylphenol (m/p-cresol)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	-	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
4-Chloro-3-methylphenol	T	40 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4-Methylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Nitrophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Catechol (o-dihydroxybenzene)	T			mg/L	< 0.01	< 0.01	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 0.2	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cresol Total	T			µg/L	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	-	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Pentachlorophenol	T	0.4 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Phenol	T	**7.7 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Speciated Phenols	T			mg/L	< 0.1	< 0.1	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 2	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total Speciated Phenols	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenols	T			µg/L	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60	-	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60
Dissolved Organic Carbon	T			mg/L	5	5	6	5	6	7	8	7	6	6	4	5	-	4	5	5	4	4	4	4	4
pH (Lab)	T			pH units	9.87	9.25	10.1	9.5	10.18	10.02	10.16	10.08	9.9	9.92	6.95	10.01	-	8.6	9.18	8.82	8.73	8.46	8.32	8.27	8.65
Suspended solids (NEN-EN 872)	T			mg/L	-	29	-	-	-	-	-	-	-	-	-	-	-	-	-	102	-	-	-	-	-
Total Suspended Solids	T			mg/L	32	-	31	11	52	12	17	10	25	16	79	28	-	81	55	-	31	27	18	< 10	29
% Cation Excess	T			%	12.89	6.59	4.25	-0.11	-1.14	0.96	1.21	-1.13	-0.17	11.54	8.11	15.75	-	4.54	2.03	4.8	10.2	6.44	1.65	0.26	0.73
Alkalinity, Total (as CaCO3)	T			mg/L	40	36	48	50	50	52	64	64	64	68	350	62	-	50	46	48	34	40	40	50	40
Ammoniacal Nitrogen as N	T	**21 µg/l**	*Value for un-ionised ammonia, WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**2760**	**2490**	**3270**	**4050**	**4860**	**5720**	**6940**	**7130**	**6380**	**5890**	**5810**	**3620**	**210**	**230**	**780**	**470**	**330**	**300**	**320**	**200**	**260**
Anions Total	T			mmolc/l	22.5	25.17	23.79	21.91	22.26	19.66	18.34	22.36	20.94	21.74	491.84	24.25	-	27.22	24.66	26.7	26.41	26.97	26.56	26.43	26.38
Cation, total	T			mmolc/l	29.16	28.72	25.9	21.86	21.76	20.04	18.79	21.86	20.87	27.41	578.61	33.32	-	29.81	25.68	29.39	32.41	30.68	27.45	26.57	26.77
Chloride	T			µg/L	70000	54300	72700	77300	81800	88300	86600	79000	79900	73400	14845200	76100	-	280900	251000	270000	272600	282900	268100	276800	266700
Cyanide	T	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**63**	**189**	**2464**	**197**	**41**	**252**	**22**	< 20	**17**	**33**	**1**	**14**	-	**328**	**830**	**444**	**278**	**36**	**265**	**322**	**489**
Cyanide (free)	T	**1 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	**31**	**138**	< 100	< 50	**37**	**215**	< 20	< 20	**1**	< 1	**1**	< 1	**70**	**5**	**7**	**14**	**10**	< 20	**27**	**13**	**84**
Cyanides-complex	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	**32**	**51**	**2464**	**197**	< 5	< 100	**22**	< 20	**16**	**33**	< 1	**14**	-	**323**	**823**	**430**	**268**	**36**	**238**	**309**	**405**
Dissolved Inorganic Carbon	T			mg/L	< 2	< 2	< 2	3	< 2	< 2	< 2	< 2	< 2	< 2	95	< 2	-	6	4	4	5	5	5	7	6
Inorganic nitrogen	T	See Table 16 (p24) of source document	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	2760	2490	3270	4050	4860	5720	6940	7130	6380	6100	5810	3970	-	-	780	470	330	500	1110	370	580
Nitrate (as NO3-)	T			µg/L	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	200	< 200	< 200	< 200	900	3500	600	900
Nitrite	T			µg/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	700	< 20	1130	< 20	< 20	< 20	< 20	< 20	< 20	40	130	350
Ortho Phosphate as P	T			mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ortho Phosphate as PO4	T			mg/L	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	0.62	< 0.06	-	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	0.06
Sulphate As SO4	T			µg/L	947300	1100900	997900	899500	910400	774600	702200	905400	836200	879500	3173800	1002000	-	878700	800000	870700	866300	873100	871500	846100	866700
Sulphide	T			mg/L	< 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	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thiocyanate	T			µg/L	270	210	270	230	220	220	280	240	250	200	< 20	80	< 20	< 20	< 20	< 20	< 20	< 20	30	< 20	< 20
Sulphur	T			µg/L	323444	378827	437162	324502	365827	295849	242537	307528	308391	604756	1257854	588217	-	291016	357000	381440	327981	283348	380387	294028	310466
Aluminium	D	**15 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	**33.3**	**54.7**	**42.2**	**39.4**	**29.1**	**34.4**	**47.2**	**56.6**	**48.6**	**344.1**	**19.3**	**58.7**	-	**46.9**	**54.1**	10.4	12.2	8	14	**18.9**	7.4
Arsenic	D	**25 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	9.1	15.9	19.1	16.3	11.1	11.1	16.4	18.5	12.5	17.7	3	17.8	4.4	6	6.5	5.8	6.1	6.6	6.2	5.7	4.7
Barium	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	47	-	-	-	-	-	-	-	-
Beryllium	D			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	< 0.5	-	-	-	-	-	-	-	-
Boron	D	7000 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	86	103	88	95	76	77	86	93	91	82	1251	85	666	702	610	675	623	764	691	654	650
Cadmium	D	**0.2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.06	< 0.03	< 0.03	< 0.5	0.07	0.06	0.07	0.09	0.07	0.08	0.06	< 0.03
Calcium	D			µg/L	474200	459700	410800	334300	321900	285900	268300	325400	298700	443300	1460200	558900	-	356300	297000	352100	409100	375900	322100	303300	301900
Chromium	D			µg/L	4.9	5	2.3	6.5	< 0.2	7.1	0.2	8.3	5.7	12.2	1.9	0.3	< 1.5	< 0.2	< 0.2	5.1	6.2	2.8	3.6	6.8	9.1

AECOM

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Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by Arcadis
Analyte Group: All
Date Range: 15/09/2022 18/04/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D
				Date	13/02/2023	20/03/2023	30/05/2023	29/06/2023	27/07/2023	31/08/2023	26/09/2023	24/10/2023	29/11/2023	09/01/2024	06/02/2024	18/03/2024	15/09/2022	02/11/2022	12/12/2022	26/01/2023	14/02/2023	22/03/2023	30/05/2023	06/07/2023	28/07/2023
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																						
Methyl N-Amyl Ketone	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trivalent Chromium (CrIII)	D			µg/L	4.9	5	2.3	-	-	-	-	-	-	-	-	-	< 6	< 0.2	< 0.2	5.1	6.2	2.8	3.6	-	-
Hexavalent Chromium (CrVI)	T	**0.6 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 6	< 6	-	< 6	< 6	< 6	< 6	< 6	< 6	< 6	**46**	< 6	< 6	-	-	-	< 6	< 6	-	< 6	< 6
Cobalt	D	3 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	D	**3.76 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 3	< 1	< 1	< 1	< 3	< 3	< 1	< 1	< 1	3	< 3	< 1	< 7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 3
Iron	D	**1000 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 4.7	36.9	17.6	14	6.3	13.4	10.2	29.3	18.9	511.4	**4752.9**	23.8	-	154.3	295	160	115.9	108	121.6	121.9	115.1
Lead	D	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	**5.3**	< 0.4	< 0.4	< 5	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Magnesium	D			µg/L	< 100	< 100	< 100	< 100	< 100	500	200	< 100	600	300	1181600	< 100	-	30700	20500	25700	28700	29400	27400	28900	28000
Manganese	D			µg/L	< 1.5	2.8	< 1.5	< 1.5	< 1.5	6.3	< 1.5	1.9	3.1	52.5	1613.9	< 1.5	459	438.3	144	207.3	338.1	375.8	382.2	480.7	341
Mercury	D	**0.07 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.01	< 0.01	< 0.01	< 0.01	0.03	< 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
Molybdenum	D			µg/L	23.9	37.9	38.2	37.9	29.5	35.6	42.5	37.2	44.8	44.3	< 0.2	47.1	-	246.3	229	247.8	257.9	236.8	249.8	242.8	182
Nickel	D	**8.6 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.2	0.9	1.1	1.2	< 0.2	1.2	1.4	1.1	1.4	**29.2**	< 0.2	0.8	< 2	0.8	1.1	1	0.7	0.8	0.8	0.7	< 0.2
Potassium	D			µg/L	102600	116000	98900	90200	96700	88900	85900	96700	92600	93300	165000	102200	-	80500	74600	82800	79300	82900	77200	79200	79100
Selenium	D			µg/L	5.6	7.7	-	3.7	< 1.2	< 1.2	4.2	4.2	4	4.6	< 1.2	4.8	< 3	-	-	-	< 1.2	< 1.2	-	< 1.2	< 1.2
Silicon	D			ug/L	6558	6349	7058	6926	7117	5728	6068	6995	5343	7216	3459	6870	-	3635	2820	2833	3103	3097	3275	3920	3752
Sodium	D			µg/L	66100	64700	66000	66100	74100	79600	73200	72300	81500	66100	9295300	64700	-	171100	167000	174500	174900	169800	164400	161700	169700
Vanadium	D	**100 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 0.6	1.1	-	4.5	3.4	8.3	9.2	19	71.4	67.7	< 0.6	79.8	< 1.5	-	-	-	1.5	1.5	-	5.8	< 0.6
Zinc	D	**6.8 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 1.5	< 1.5	-	< 1.5	< 1.5	3.5	1.6	< 1.5	1.6	**24.1**	3	< 1.5	< 3	< 1.5	< 1.5	1.8	2	2	-	4.4	< 1.5
2-chloronaphthalene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
3-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-bromophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Chlorophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Azobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzyl Butyl Phthalate	T	0.75 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Chloroethoxy)methane	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
bis(2-Chloroethyl)ether	T			µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bis(2-ethylhexyl) phthalate	T	1.3 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbazole	T	1 µg/L	*Laboratory LOD used*	µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloroaniline, p-	T			µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Diethyl Phthalate	T	200 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dimethyl Phthalate	T	800 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Di-n-butyl phthalate	T	8 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Di-n-octyl phthalate	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	T	0.6 µg/l	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Hexachlorocyclopentadiene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachloroethane	T			µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isophorone	T			µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ISOPROPYLTOLUENE, p-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Methylnaphthalene, 2-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
N-Nitrosodi-n-Propylamine	T			µg/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Resorcinol (m-dihydroxybenzene)	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthene	T			µg/L	1.232	0.998	1.11	1.107	1.039	0.781	0.346	1.22	0.503	0.891	0.006	0.056	0.013	0.015	0.031	0.023	0.027	0.015	0.022	0.019	0.014
Acenaphthylene	T			µg/L	< 0.005	< 0.005	< 0.005	0.023	0.023	0.023	0.013	0.016	0.019	0.031	< 0.005	< 0.005	< 0.005	< 0.005	0.007	0.006	< 0.005	0.002	< 0.005	0.009	< 0.005
Anthracene	T	0.1 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.005	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.011	0.021	< 0.005	0.007	< 0.005	< 0.005	0.011	0.012	0.009	0.004	< 0.005	< 0.005	< 0.005
Benzo(a)anthracene	T			µg/L	0.007	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.028	< 0.005	< 0.005	0.005	0.014	0.018	0.017	< 0.005	0.002	0.008	< 0.005	< 0.005
Benzo(a)pyrene	T	**0.00017 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.005	**0.024**	< 0.005	< 0.005	< 0.005	**0.01**	**0.012**	**0.007**	< 0.005	**0.00196**	< 0.005	< 0.005	< 0.005
Benzo(b)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.005	< 0.008	**0.034**	< 0.008	< 0.008	< 0.008	0.012	**0.021**	0.012	< 0.008	0.002	< 0.008	< 0.008	< 0.008
Benzo(b+k)fluoranthene	T	**0.017 µg/L**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal for benzo(b)fluoranthene/benzo(k)fluoranthene*	µg/L	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.01	< 0.008	**0.047**	< 0.008	< 0.008	< 0.008	**0.017**	**0.029**	0.016	< 0.008	0.003	0.01	< 0.008	< 0.008
Benzo(g,h,i)perylene	T	**0.00082 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.018**	< 0.005	< 0.005	< 0.005	< 0.005	**0.007**	< 0.005	< 0.005	**0.001**	< 0.005	< 0.005	< 0.005
Benzo(k)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.005	< 0.008	0.013	< 0.008	< 0.008	< 0.008	< 0.008	0.008	< 0.008	< 0.008	< 0.001	< 0.008	< 0.008	< 0.008
Chrysene	T			µg/L	0.008	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.025	< 0.005	< 0.005	< 0.005	0.021	0.017	0.011	< 0.005	0.002	0.006	< 0.005	< 0.005
Dibenz(a,h)anthracene	T			µg/L	< 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	< 0.005	< 0.005	< 0.0009	< 0.005	< 0.005	< 0.005
Fluoranthene	T	**0.0063 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	**0.009**	< 0.005	< 0.005	< 0.005	0.006	**0.008**	**0.008**	< 0.005	**0.019**	**0.06**	**0.015**	< 0.005	0.006	**0.037**	**0.064**	**0.028**	**0.021**	**0.013**	**0.017**	**0.009**	**0.007**
Fluorene	T			µg/L	0.231	0.175	0.225	0.212	0.204	0.166	0.05	0.236	0.133	0.206	0.005	0.007	0.01	0.011	0.03	0.017	0.018	0.01	0.014	0.014	0.01
Indeno(1,2,3-c,d)pyrene	T	Refer to result for benzo(a)pyrene as indicative of overall PAH risk	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	0.011	< 0.005	< 0.005	0.001	< 0.005	< 0.005	< 0.005
Naphthalene	T	**2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	**5.3**	**4.5**	**7**	**4.3**	**4.1**	**2.5**	**2**	**6**	**3**	**5**	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Phenanthrene	T			µg/L	< 0.005	0.015	0.012	0.014	0.021	0.022	0.013	0.019	0.05	0.052	0.017	< 0.005	0.017	0.033	0.088	0.048	0.044	0.022	0.024	0.013	0.015
Pyrene	T			µg/L	0.011	< 0.005	0.006	0.007	0.008	0.009	0.01	< 0.005	0.019	0.051	0.014	< 0.005	0.005	0.032	0.054	0.025	0.016	0.009	0.015	0.007	0.006
PAH (Sum of 16)	T			µg/L	6.798	5.693	5.653	5.663	5.401	3.509	2.44	1.531	2.954	3.579	< 0.173	0.47	< 0.173	0.19	0.379	0.21	< 0.173	0.12996	0.216	< 0.173	< 0.173
1,1,1,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,2,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,1-Dichloroethene	T	1 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,1-dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2,3-trichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by Arcadis
Analyte Group: All
Date Range: 15/09/2022 18/04/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	MS\BH15D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D
				Date	13/02/2023	20/03/2023	30/05/2023	29/06/2023	27/07/2023	31/08/2023	26/09/2023	24/10/2023	29/11/2023	09/01/2024	06/02/2024	18/03/2024	15/09/2022	02/11/2022	12/12/2022	26/01/2023	14/02/2023	22/03/2023	30/05/2023	06/07/2023	28/07/2023
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**																					
Methyl N-Amyl Ketone	T			ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2-dibromo-3-chloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dibromoethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3,5-Trimethylbenzene (Mesitylene)	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,3-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2,2-Dichloropropane	T	2 µg/L	*Laboratory LOD used*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
4-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromobenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromodichloromethane	T	4 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromoform	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroform	T	2.5 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
cis-1,2-dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
cis-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibromochloromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Ethylbenzene	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 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
n-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
n-Propylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
sec-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
tert-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
trans-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Trichlorofluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 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
m-& p-Xylenes	T	2 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 3	< 3	< 3	-	-	-	-	-	-	-	-	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-	-
o-Xylene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sum of Tetrachloroethene + Trichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	< 6	< 6	< 6	-	-	-	-	-	-	-	-	< 6	< 6	< 6	< 6	< 6	< 6	< 6	-	-
Volatile TIC	T			none	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0
Aliphatics >C5-C6	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C5-C35	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	< 10	< 10	-	-	-	-	-	-	-
Aliphatics >C5-C44	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C6-C8	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C8-C10	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C10-C12	T			µg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Aliphatics >C12-C16	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C16-C21	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C16-C35	T			µg/L	< 20	< 20	< 20	-	-	-	-	-	-	-	-	< 20	< 20	< 20	< 20	< 20	< 20	< 20	-	-
Aliphatics >C21-C35	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C35-C44	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C5-C7	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C5-C35	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	< 10	< 10	-	-	-	-	-	-	-
Aromatics >C5-C44	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C7-C8	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C8-C10	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C10-C12	T			µg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Aromatics >C12-C16	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C16-C21	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C21-C35	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C35-C44	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics & Aromatics >C5-C35	T			µg/L	-	-	-	-	-	-	-	-	-	-	-	-	< 10	< 10	-	-	-	-	-	-	-
Aliphatics & Aromatics >C5-C44	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by Arcadis
Analyte Group: All
Date Range: 15/09/2022 18/04/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

					S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D
				Location	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D
				Date	01/09/2023	25/09/2023	25/10/2023	29/11/2023	09/01/2024	21/02/2024	20/03/2024	17/04/2024
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**								
Methyl N-Amyl Ketone	T			ug/L	-	-	-	-	-	-	-	-
Hexathiane	T			ug/L	-	-	-	-	4263	-	-	-
SVOC TICs	T			µg/L	0	0	0	0	-	0	0	0
Dibutyltin	T			µg/L	-	-	-	-	-	-	-	-
Tributyltin	T	0.0002 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	-	-	-	-	-	-	-	-
Triphenyltin	T	0.008 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-
Dibenzofuran	T	1 µg/L	*Laboratory LOD used*	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dinitrotoluene, 2,4-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dinitrotoluene, 2,6-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Nitrobenzene	T			µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichlorobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,3-Dichlorobenzene	T	2 µg/L	*Laboratory LOD used*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,4-Dichlorobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2,3-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2,4-Trichlorobenzene	T	Refer to 'Trichlorobenzene (total)'	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Hexachlorobenzene	T	0.05 µg/l	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1-Naphthol	T			mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,3,5-Trimethylphenol	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4,5-Trichlorophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4,6-Trichlorophenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	T	0.42 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dimethylphenol	T	0.1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorophenol	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Isopropylphenol	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-methylphenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Nitrophenol	T			µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
3/4-Methylphenol (m/p-cresol)	T	**1 µg/L**	*Laboratory LOD used*	µg/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
4-Chloro-3-methylphenol	T	40 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4-Methylphenol	T	**0.1 µg/L**	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	**6**	< 1	< 1	< 1
4-Nitrophenol	T	1 µg/L	*Laboratory LOD used*	µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Catechol (o-dihydroxybenzene)	T			mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01
Cresol Total	T			µg/L	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Pentachlorophenol	T	0.4 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Phenol	T	**7.7 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 10	< 10	< 10	< 10	**30**	< 10	< 10	< 10
Total Speciated Phenols	T			mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total Speciated Phenols	T			ug/L	-	-	-	-	-	-	-	-
Xylenols	T			µg/L	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60
Dissolved Organic Carbon	T			mg/L	5	5	15	4	156	5	5	5
pH (Lab)	T			pH units	8.88	8.91	11.68	8.15	7.44	9.21	8.36	8.62
Suspended solids (NEN-EN 872)	T			mg/L	-	-	-	-	-	-	-	-
Total Suspended Solids	T			mg/L	22	19	18	40	12	12	27	10
% Cation Excess	T			%	2.68	4.67	-1.2	9.85	11.04	7.37	12.36	11.25
Alkalinity, Total (as CaCO3)	T			mg/L	26	42	282	32	322	60	54	40
Ammoniacal Nitrogen as N	T	**21 µg/l**	*Value for un-ionised ammonia, WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**580**	**380**	**2640**	**460**	**2100**	**750**	**610**	**360**
Anions Total	T			mmolc/l	24.3	24.83	9.3	25.62	31.56	25.77	25.24	25.73
Cation, total	T			mmolc/l	25.64	27.26	9.08	31.22	39.39	29.87	32.36	32.25
Chloride	T			µg/L	251100	264000	73400	268900	614300	263900	271300	259900
Cyanide	T	**1 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	**729**	**315**	**2500**	**351**	**31**	**432**	**272**	**46**
Cyanide (free)	T	**1 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	**35**	**11**	< 200	**6**	< 1	**33**	**2**	**5**
Cyanides-complex	T	**1 µg/L**	*SEPA WAT-SG-53 Marine EQS - AA - 2015 for Cyanide (free)*	µg/L	**694**	**304**	**2500**	**345**	**31**	**399**	**270**	**41**
Dissolved Inorganic Carbon	T			mg/L	< 2	6	4	4	45	6	6	5
Inorganic nitrogen	T	See Table 16 (p24) of source document	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	650	380	4850	460	2100	760	610	360
Nitrate (as NO3-)	T			µg/L	< 200	< 200	400	< 200	< 200	< 200	< 200	< 200
Nitrite	T			µg/L	230	< 20	6970	< 20	< 20	30	< 20	< 20
Ortho Phosphate as P	T			mg/L	-	-	-	-	-	-	-	-
Ortho Phosphate as PO4	T			mg/L	< 0.06	< 0.06	0.12	< 0.06	< 0.06	0.08	< 0.06	< 0.06
Sulphate As SO4	T			µg/L	801700	794600	76200	835500	374400	822300	792600	845200
Sulphide	T			mg/L	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01	< 0.01
Thiocyanate	T			µg/L	< 20	< 20	70	< 20	< 20	< 20	< 20	< 20
Sulphur	T			µg/L	281529	295769	24401	298453	230970	431137	507086	425084
Aluminium	D	**15 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	**55.8**	13.8	**1460.9**	**15.1**	10	**125.5**	14.1	**181**
Arsenic	D	**25 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	5.5	6.3	14.8	5.8	24.5	5	5.3	5.6
Barium	D			µg/L	-	-	-	-	-	-	-	-
Beryllium	D			µg/L	-	-	-	-	-	-	-	-
Boron	D	7000 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	591	649	196	665	393	778	842	820
Cadmium	D	**0.2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.03	0.08	< 0.03	0.07	< 0.03	< 0.03	0.06	0.07
Calcium	D			µg/L	299300	311500	45500	395300	350800	359100	401300	404800
Chromium	D			µg/L	1.2	1.9	1.5	2.3	3.1	2.3	2.8	0.7

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by Arcadis
Analyte Group: All
Date Range: 15/09/2022 18/04/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

					Location	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D
					Date	01/09/2023	25/09/2023	25/10/2023	29/11/2023	09/01/2024	21/02/2024	20/03/2024	17/04/2024
					Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
					Sample Type	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**									
Methyl N-Amyl Ketone	T			ug/L	-	-	-	-	-	-	-	-
Trivalent Chromium (CrIII)	D			µg/L	-	-	-	-	-	-	-	-
Hexavalent Chromium (CrVI)	T	**0.6 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Cobalt	D	3 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-
Copper	D	**3.76 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 3	< 1	< 1	< 1	< 3	< 3	< 1	< 1
Iron	D	**1000 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	168.4	123.8	811.4	127.7	92.2	288	128.8	271.8
Lead	D	**1.3 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	**1.3**
Magnesium	D			µg/L	23100	28600	< 100	27100	9600	32400	33500	34100
Manganese	D			µg/L	156.4	245.4	< 1.5	257.4	181	387.2	454.1	372
Mercury	D	**0.07 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.01	< 0.01	< 0.01	< 0.01	**0.12**	< 0.01	< 0.01	< 0.01
Molybdenum	D			µg/L	185.5	233.6	31.4	244.9	25.5	171.1	221.3	211.5
Nickel	D	**8.6 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	0.9	0.6	5.2	0.7	4	< 0.2	0.6	0.8
Potassium	D			µg/L	74900	81800	25400	81000	67100	79500	86100	82000
Selenium	D			µg/L	< 1.2	< 1.2	2.6	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Silicon	D			ug/L	3064	3222	12315	2827	10315	3567	2896	3209
Sodium	D			µg/L	158400	167200	141700	165400	445500	166700	169700	164300
Vanadium	D	**100 µg/l**	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	8.7	4.1	**187**	3.6	6.4	6.1	1.6	2.9
Zinc	D	**6.8 µg/l**	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	2.5	< 1.5	1.8	< 1.5	**25**	6.5	< 1.5	**7.8**
2-chloronaphthalene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
3-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-bromophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Chlorophenyl phenyl ether	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Nitroaniline	T	1 µg/L	*Laboratory LOD used*	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Azobenzene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzyl Butyl Phthalate	T	0.75 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Chloroethoxy)methane	T	1 µg/L	*Laboratory LOD used*	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
bis(2-Chloroethyl)ether	T			µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bis(2-ethylhexyl) phthalate	T	1.3 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbazole	T	1 µg/L	*Laboratory LOD used*	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloroaniline, p-	T			µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Diethyl Phthalate	T	200 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dimethyl Phthalate	T	800 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Di-n-butyl phthalate	T	8 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Di-n-octyl phthalate	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	T	0.6 µg/l	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Hexachlorocyclopentadiene	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachloroethane	T			µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isophorone	T			µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ISOPROPYLTOLUENE, p-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Methylnaphthalene, 2-	T	1 µg/L	*Laboratory LOD used*	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
N-Nitrosodi-n-Propylamine	T			µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Resorcinol (m-dihydroxybenzene)	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthene	T			µg/L	0.019	0.013	< 0.005	0.048	< 1	0.016	0.017	0.014
Acenaphthylene	T			µg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 1	< 0.005	< 0.005	< 0.005
Anthracene	T	0.1 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	0.005	< 0.005	< 0.005	0.008	< 1	0.005	0.006	< 0.005
Benzo(a)anthracene	T			µg/L	< 0.005	< 0.005	< 0.005	0.008	< 1	< 0.005	< 0.005	< 0.005
Benzo(a)pyrene	T	**0.00017 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 0.005	< 0.005	< 0.002	< 0.005	< 1	< 0.005	< 0.005	< 0.005
Benzo(b)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.008	< 0.008	< 0.005	< 0.008	< 1.6	< 0.008	< 0.008	< 0.008
Benzo(b+k)fluoranthene	T	**0.017 µg/L**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal for benzo(b)fluoranthene/benzo(k)fluoranthene*	µg/L	< 0.008	< 0.008	< 0.01	< 0.008	< 1.6	< 0.008	< 0.008	< 0.008
Benzo(g,h,i)perylene	T	**0.00082 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 1	< 0.005	< 0.005	< 0.005
Benzo(k)fluoranthene	T	**0.017 µg/l**	*WFD England/Wales. 2015 - MAC-EQS Trans./Coastal*	µg/L	< 0.008	< 0.008	< 0.005	< 0.008	< 1.6	< 0.008	< 0.008	< 0.008
Chrysene	T			µg/L	< 0.005	< 0.005	< 0.005	0.009	< 1	< 0.005	< 0.005	< 0.005
Dibenz(a,h)anthracene	T			µg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 1	< 0.005	< 0.005	< 0.005
Fluoranthene	T	**0.0063 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	**0.011**	**0.01**	< 0.005	**0.033**	< 1	**0.007**	**0.015**	**0.007**
Fluorene	T			µg/L	0.012	0.01	< 0.005	0.108	< 1	0.011	0.012	0.011
Indeno(1,2,3-c,d)pyrene	T	Refer to result for benzo(a)pyrene as indicative of overall PAH risk	*Water Env't Regs (Scotland) 2015. AA-EQS Coast*	µg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 1	< 0.005	< 0.005	< 0.005
Naphthalene	T	**2 µg/l**	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 2	< 2	< 2	< 2	< 20	< 2	< 2	< 2
Phenanthrene	T			µg/L	0.024	0.022	< 0.005	0.132	< 1	0.016	0.02	0.015
Pyrene	T			µg/L	0.008	0.008	< 0.005	0.032	< 1	0.006	0.012	0.006
PAH (Sum of 16)	T			µg/L	< 0.173	< 0.173	< 0.082	0.378	< 34.6	< 0.173	< 0.173	< 0.173
1,1,1,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	T	100 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,2,2-Tetrachloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
1,1,2-Trichloroethane	T	300 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,1-Dichloroethene	T	1 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,1-dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2,3-trichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3

AECOM

Client: Net Zero Teesside Power Limited
Project: Net Zero Teesside
Table: Groundwater Analytical Results - data collected by Arcadis
Analyte Group: All
Date Range: 15/09/2022 18/04/2024
Assessment Criteria: CW/WE Water. Aquatic Toxicity - England/Wales - Transitional/Coastal

				Location	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D	S2-BHA04D
				Date	01/09/2023	25/09/2023	25/10/2023	29/11/2023	09/01/2024	21/02/2024	20/03/2024	17/04/2024
				Geologic Unit	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND	TFD SAND
				Sample Type	N	N	N	N	N	N	N	N
Analyte	**Fraction**	**Assessment Criteria**	**Source**	**Units**								
Methyl N-Amyl Ketone	T			ug/L	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2-dibromo-3-chloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dibromoethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloroethane	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3,5-Trimethylbenzene (Mesitylene)	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,3-Dichloropropane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2,2-Dichloropropane	T	2 µg/L	*Laboratory LOD used*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
4-chlorotoluene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Benzene	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromobenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromodichloromethane	T	4 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromoform	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	T	12 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chlorobromomethane	T	4 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroform	T	2.5 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
cis-1,2-dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
cis-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibromochloromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibromomethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Dichlorodifluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichloromethane	T	20 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Ethylbenzene	T	20 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Methyl tertiary butyl ether	T	260 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
n-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
n-Propylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
sec-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Styrene	T	50 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
tert-Butylbenzene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Tetrachloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Toluene	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
trans-1,3-Dichloropropene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Trichloroethene	T	10 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Trichlorofluoromethane	T	1 µg/L	*Laboratory LOD used*	ug/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Vinyl Chloride	T	8 µg/l	*PNEC (EU REACH) - Coastal*	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
m-& p-Xylenes	T	2 µg/L	*Laboratory LOD used*	ug/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
m/p/o-Xylene	T	30 µg/l	*SEPA WAT-SG-53 Marine EQS - AA - 2015*	µg/L	-	-	-	-	-	-	-	-
o-Xylene	T	1 µg/L	*Laboratory LOD used*	ug/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sum of Tetrachloroethene + Trichloroethene	T	2 µg/L	*Laboratory LOD used*	µg/L	-	-	-	-	-	-	-	-
Volatile TIC	T			none	0	0	0	0	0	0	0	0
Aliphatics >C5-C6	T			µg/L	< 10	< 10	< 10	< 10	15	< 10	< 10	< 10
Aliphatics >C5-C35	T			µg/L	-	-	-	-	-	-	-	-
Aliphatics >C5-C44	T			µg/L	< 10	< 10	< 10	< 10	83	< 10	< 10	< 10
Aliphatics >C6-C8	T			µg/L	< 10	< 10	< 10	< 10	27	< 10	< 10	< 10
Aliphatics >C8-C10	T			µg/L	< 10	< 10	< 10	< 10	41	< 10	< 10	< 10
Aliphatics >C10-C12	T			µg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Aliphatics >C12-C16	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C16-C21	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C16-C35	T			µg/L	-	-	-	-	-	-	-	-
Aliphatics >C21-C35	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics >C35-C44	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C5-C7	T	8 µg/l	*WFD England/Wales. 2015 - AA-EQS Trans./Coastal*	µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C5-C35	T			µg/L	-	-	-	-	-	-	-	-
Aromatics >C5-C44	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C7-C8	T	74 µg/l	*WFD England/Wales. 2015 - Saltwater Standards*	µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C8-C10	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C10-C12	T			µg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Aromatics >C12-C16	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C16-C21	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C21-C35	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatics >C35-C44	T			µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatics & Aromatics >C5-C35	T			µg/L	-	-	-	-	-	-	-	-
Aliphatics & Aromatics >C5-C44	T			µg/L	< 10	< 10	< 10	< 10	83	< 10	< 10	< 10