Welsh Government

M4 Corridor around Newport

Land Contamination Assessment Report Annex D CL-27 Elver Pill Reen and Green Moor Landfill Land Contamination Assessment Report

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1 Introduction

1.1 Background

- 1.1.1 This report relates to an area of land potentially affected by contamination (CL-27) known as the 'Elver Pill Reen and Green Moor Landfill' and hereinafter referred to as the Site.
- **1.1.2** The Site is located between chainage 16,400 and 17,900 (See Figure 1) and covers an area of historical landfill and infilling of the Elver Pill Reen.

1.2 Reporting Context

- 1.2.1 The Site has been assessed as part of investigations and monitoring associated with the wider works for the M4 Corridor around Newport (M4CaN) (hereafter referred to as the 'Scheme'). This report informs the baseline for the environmental impact assessment (EIA) for the Scheme. The EIA is reported in the M4CaN Environmental Statement (ES) of which this document is an appendix to the chapter on Geology and Soils.
- In 2014, a Preliminary Sources Study Report (2014 PSSR) was prepared as an initial land contamination appraisal (Ove Arup & Partners, 2014) as part of DMRB Stage 2 Assessments for this Scheme. This identified a number of individual areas that may have been affected by contamination as a result of historical activities at the Site. In addition, this report draws upon the 2015 Supplementary Ground Investigation Works undertaken on behalf of the Welsh Government (Geotechnical Engineering, 2015). This report relates to the area defined on the Site Location Plan Figure 1.
- 1.2.3 The overarching rationale and approach for the assessment of areas of land along the Scheme with potential contamination is detailed in the Land Contamination Assessment Report (Appendix 11.1 of the ES).

1.3 Objectives

- **1.3.1** The key objectives of this report are as follows:
 - Undertake a risk assessment of the Site and determine whether potential risks to human health or controlled waters could exist based upon the Scheme.
 - Identify the need for further assessment and investigation in order to refine potential land contamination risks and inform the need for remediation/mitigation.
 - To provide information to support the Ground Investigation Report (GIR) and Geotechnical Design Report (GDR) required under DMRB HD22/08 (Highways Agency, 2008).

1.4 Report Structure

1.4.1 The remainder of this report is structured as follows:

- Section 2: Site Location and Description This section summarises the Site description.
- Section 3: The Scheme This section details the alignment of the new section of motorway and associated features at the Site.
- Section 4: Site History This section summarises the history of the Site based on historical maps and historical land photographs.
- Section 5: Environmental Setting This section summarises the Site description, published geology, hydrology and hydrogeology and any relevant environmental information presented in the 2014 PSSR.
- Section 6: Scope of Ground Investigations Work This section describes the previous and supplementary ground investigation data available for the Site.
- Section 7: Ground Conditions This section describes the main findings of the intrusive site investigations including the ground conditions encountered and significant visual or olfactory evidence of contamination identified.
- Section 8: Contamination Assessment This section describes the findings of the Tier 1 and Tier 2 contamination risk assessment based upon potential contamination sources, potential receptors and potential contamination linkages and presents the human health and controlled waters screening assessments.
- Section 9: Refined Conceptual Site Model This section presents the CSM for the Site and identifies potential contaminant linkages, based upon the findings of the data presented within Sections 2 to 7.
- Section 10: Conclusions and Recommendations This section provides conclusions concerning the likelihood of land contaminant associated with the Site affecting the Scheme and requirements for remediation / mitigation.
- Section 11: References This section summarises the key documents referred to in this report.
- Section 12: Glossary This section provides a summary of the terms used in this report.

2 Site Location and Description

- 2.1.1 The Site is located to the east of the Llanwern Steel Works former lagoon areas (CL-26 report, Annex D of Appendix 11.1 of the ES) and south of the steel works itself. It is centred at National Grid Reference ST386 854 and covers an area of approximately 1 km².
- 2.1.2 The Site is located within a low lying area comprising fields intersected by reens and drainage ditches. Corus Reed bed No. 2 is situated to the north of the Site. Much of the Site is generally used for agriculture.
- 2.1.3 It is understood parts of the Site have historically been used as a landfill for steel works waste comprising slag, clinker, stone and ash. The landfilling activities relate to three areas:
 - An area of a historical landfill area called 'Llanwern Steelworks Land Adjacent to 1-3 Blast Furnace'; According to the Natural Resources Wales (NRW) records, this historical landfill covers the entire Site area.
 - Areas of known in-filling in the vicinity of the Elver Pill Reen (later referred to as the 'Elver Pill Reen site'), The Elver Pill Reen site is an area surrounding and to the west of the reen and was identified as a potential contaminant source due to the presence of slag fill used to create roadways. The Site includes two main tracks, the eastern track is 'L'-shaped and the western track traverses north-south parallel to the Elver Pill Reen on its eastern side as shown on Figure 1.
 - Green Moor Lane landfill (later referred to as the 'Green Moor Lane site'). The
 Green Moor Lane site comprises three small (750-1,600 m² each) locations of
 buried steel works waste of slag, clinker, stone and ash to the east of the Elver
 Pill Reen site.
- 2.1.4 A site walkover was planned to be undertaken in January 2014, however no access could be gained.
- 2.1.5 A walkover survey in 2015 identified that the Site comprises a number of fields, ditches and reens and is largely in agricultural use as semi-improved grassland and scrub. Photographs are provided in Appendix 7.

3 The Scheme

- 3.1.1 The proposed new section of motorway would cross the Site centrally from east to west. The approximate chainage is 16,400 to 17,900. Refer to Figure 1 for the Site location in relation to the Scheme.
- 3.1.2 The current Scheme design crosses the Site on an earth embankment some 2 m to 3 m high. A proposed new overbridge to accommodate North Row road also cuts through the eastern part of the Site.
- 3.1.3 The alignment would transect the western Elver Pill Reen track and encroach on the northern end of the existing eastern track. The road construction would also cross the Green Moor landfill areas.
- 3.1.4 An area of permanent land take is proposed in the north eastern corner of the Site which includes a water treatment area, an attenuation pond and associated landscaping.

4 Site History

- 4.1.1 The 2014 PSSR historical searches have been based on Ordnance Survey plans, literature reviews, information provided by Natural Resources Wales (NRW) (formally Environment Agency Wales) and Newport City Council and interpretation of aerial photography.
- **4.1.2** This is supplemented by a review of historical maps obtained in 2015 from Welsh Government. Relevant extracts are presented in Appendix 8.
- **4.1.3** A summary of the Site's history is presented in Table 1 below.

Table 1: Site History Summary

1995 Feature ID / Date	Use / Observation	Source of Information
1843 - 1893	The Site comprises a number of fields traversed by reens and drainage ditches. Middle Road and Middle Road Reen run northeast-southwest through the centre of Site. The Elver Pill Reen runs north-south in the west of Site and Newcut Reen runs northwest-southeast through the centre of Site. A road runs along the southern and eastern boundary. Prides Bridge is located in the northwest corner.	1:10,560 Historical Mapping
1891 - 1912	No significant change.	1:10,560 Historical Mapping
1904 - 1939	No significant change.	1:10.560 Historical Mapping
1964 – 1965	A cattle shelter is present in the south.	1:10,560 Historical Mapping
1969	A steelworks including settling ponds beyond the Site to the north.	Aerial Photography
1970 - 1973	Two overhead wires and associated masts are located running northeast-southwest along the Site southern boundary. The cattle shelter is no longer present.	1: 10,000 Historical Mapping
1979	No significant change	Aerial Photography
1985 - 1996	A pond / area of <u>infilling</u> is located in the southwest corner of Site. A <u>pipeline</u> (assumed associated with the steelworks, above or below ground status unknown) runs along the western boundary of the Site.	1 : 10,000 Historical Mapping
1991	Landfill activity observed on the Site including stockpiling of material / construction of a bund along the southern and eastern boundary of the Site. Tracks observed in the western area of the Site. Area of disturbed ground with ponding water in the south western corner. Evidence of stockpiling adjacent to a track along the western boundary.	Aerial Photography

1995 Feature ID / Date	Use / Observation	Source of Information
1998	Three settling ponds are located in the north western area of the Site. A further track is located along the northern boundary. Areas of bare ground and stockpiling observed in discrete areas across the Site.	Aerial Photography
2006	One of the three settling ponds appears infilled and vegetated. Further ponds / areas of disturbed ground identified in the south western area of the Site. An area of bare ground with stockpiles is located along the northern boundary. Areas of bare ground with white material observed adjacent to track south of the settling ponds (described as a 'white spill' in the 1995 PSSR, however this is not captured in the 1998 image).	Aerial Photography
2009 - 2010	No significant change	Aerial Photography
2014	The northernmost settling pond appears infilled / covered by patchy vegetation. White material partially overgrown.	Aerial Photography

^{*}Notes. Potential sources of contamination are underlined. Those within temporary and permanent land take are shown in bold.

- 4.1.4 The sources of information presented above supplement those used in the 2014 PSSR. Relevant extract of the photographs are presented in Appendix 8.
- 4.1.5 Consultation with Newport City Council and NRW has revealed that a large area encompassing Elver Pill Reen and Green Moor Lane sites was a licensed landfill (Reference: 6935/0026) and bounded to the north by Llanwern Works East, Queensway and to the south by Rush Wall road.
- 4.1.6 The Site commenced to accept waste in 1981. The tip was licensed to accept 49 tonnes of sludge per day before the licence was revoked in 1984. It is understood that only the north west corner of the licensed area has been used for sludge disposal and this includes Reedbed No 2, part of the Llanwern Steelworks former lagoon site (CL- 26).
- **4.1.7** Evidence of large scale landfilling across the entire Site is not present from the historical maps and aerial photographs.
- 4.1.8 Historically, the Site was used as bombing decoy site during World War II which is described in detail within the 2014 PSSR (Ove Arup 2014) and the Explosive Ordnance Threat Assessment Report (Bactec, 2014). The risk from unexploded ordnance at the Site is categorised as medium risk (Bactec, 2014).

5 Environmental Setting

5.1 Geology

- 5.1.1 The British Geological Survey (BGS) geological maps show relatively impermeable Tidal Flat Deposits underlying the Site and bands of peat are likely to be present within these.
- 5.1.2 The BGS geological records show bedrock beneath the Site is that of the Mercia Mudstone Group comprising weathered mottled and often fractured mudstones.

5.2 Hydrology

5.2.1 A number of drainage ditches traverse the Site. Middle Road Reen runs northeast-southwest through the Site centre, Elver Pill Reen runs north-south in the west and a number of settling ponds are present in the west of Site as shown in Figure 1.

5.3 Hydrogeology

- 5.3.1 NRW classifies the Mercia Mudstone Group as a Secondary B Aquifer. The Tidal Flat Deposits are classified as non productive (negligibly permeable) strata.
- **5.3.2** The Site does not lie within a groundwater source protection zone.
- 5.3.3 Groundwater is anticipated to be present between the interface of the bedrock strata and Tidal Flat Deposits. Further, perched water may be encountered at shallow depth within any fill material above the Tidal Flat Deposits.

5.4 Environmental Information

- **5.4.1** NRW reports the following information within the study area:
 - No pollutant incidents, abstraction licences or discharge consents within the Site or within 300 m of the Site.
 - One historic landfill site has been recorded within the Site boundary.

Table 2: Historic Landfills within Site Boundary

Landfill Name	Location	Material Type	Date Waste First and Last Received
Llanwern Steelworks Land Adjacent to 1-3 Blast Furnace, Corus, Llanwern Works	Over whole Site	Industrial waste and liquid sludge	16/11/1981 20/06/1984

• Three authorised landfills are recorded within 300 m of the Site.

Table 3: Authorised Landfills within 300 m of Site

Landfill Name	Operator's Name	Location	Licence Type	Licence Status
Llanwern Landfill: South Side of Queensway	Corus Strip Products PPC	Adjacent to the west of the Site	Industrial Waste Landfill	Modified
South Side of Queensway Llanwern Landfill	Tata Steel UK Limited	Adjacent to the west of the Site	Waste landfilling; >10 T/D with capacity >25,000T excluding inert waste	Effective
Llanwern Works East	Corus Strip Products	Adjacent to the north eastern Site boundary	Industrial Waste Landfill	Issued

- 5.4.2 The Site lies within the Gwent Levels Whitson and Redwick and Llandevenny Site of Special Scientific Interest.
- **5.4.3** Residual levels of potential contamination associated with the historical landfilling may be present.

6 Scope of Investigations

6.1 General

6.1.1 Five intrusive ground investigations have been undertaken at the Site since 1997 and these have been summarised in the following sections.

6.2 Scope of Works

6.2.1 The various intrusive ground investigations undertaken within the Site area are summarised in Table 4 and are shown on Figure 1.

Table 4: Ground Investigation Summary

Date	Contractor	Site Location	Boreholes	Trial Pits	Sampling
1997	Norwest Holst	South	BHK2, BHK3, BHK4, BHK5, BHL1, BHL2	-	Soil
2000	Exploration Associates	South	-	CH51, CH52, CH52A, CH53, CH53A, CH54, CH54A	Soil and leachate
2002	Enviros	Unknown	RBBH3 , RBBH4, RBBH5	-	Soil & groundwater
2008	Norwest Holst	Central area	SBHK01CP, SBHK02CP, SBHK03CP, SBHK04CP, SBHL01CP, SBHL02CP, SBHL02RC	STPK01, STPK02, STPL01	Soil, leachate & groundwater
2015	Geotechnical Engineering	South	BH526, BH527, BH528, BH529, BH530	TP510, TP11, TP12, TP13	Soil

6.2.2 The construction details of all boreholes installed with monitoring wells on the Site are summarised in Table 5 below and shown on Figure 1.

Base of Total **Top of Slotted Slotted Well Borehole Diameter Drilled** Well Casing / **Targeted** Casing / ID (mm) Depth **Gravel Pack** Geology **Gravel Pack** (m bGL) (m) (m bGL) Tidal Flat SBHK01CP 50 13.5 4.8 6.8 Deposits Tidal Flat SBHK02CP 50 13.7 7.2 11.2 Deposits Tidal Flat SBHK03CP 50 11.5 4.9 5.9 **Deposits** TFD / Mercia SBHK04CP 50 12.2 10.2 12.2 Mudstone Group Mercia SBHL02CP 19 20.3 14.8 15.4 Mudstone Tidal Flat 35 4.9 9 **Deposits** BH527 19.1 Mercia 12.9 19 50 Mudstone 35 7 Peat / TFD 6 17 BH528 Mercia 50 11.8 17 Mudstone 35 5 8 Peat / TFD

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Table 5: Summary of Borehole Construction Details

6.3 Surface Water Quality Monitoring

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- 6.3.1 Surface water quality monitoring has been undertaken at a number of locations surrounding the Site which are shown in Figure 1. Sampling has also been undertaken during 2015 (Geotechnical Engineering, 2015) and by RPS (Appendix 16.2 of the ES) as part of the supplementary works commissioned by Welsh Government.
- Further sampling has previously been undertaken between 2007 and 2008 as part of the Titan surface water sampling regime (Titan, 2008).
- **6.3.3** These surface water monitoring locations are shown in Table 6.

Mercia

Mudstone

21

BH530

Surface Water **Location Description Comments Location ID** Flow was noted as slack to Located Elver Pill Reen approximately 50 m R14 south of the Site. slow Located on Greenmoor Triangle Flow was noted as slack to R15 approximately 50m north of the Site. slow Located on Windmill Reen on the southern Flow was noted as slack to R16 Site boundary. slow Located on 100 Perches Reen approximately Slow slow noted, little 17.1 150 m north of the Site. vegetation Located on Middle Road Reen Diversion on Shallow with significant 17.2 the southern Site boundary. vegetation Located Elver Pill Reen approximately 50m Low to no flow, duck weed on 17.3 south of the Site. surface of water Located on field drain on the western SW506 boundary of the Site. Located on Middle Road Reen Diversion on SW507 the eastern boundary of the Site. Located on Middle Road Reen Diversion on SW508 the north eastern boundary of the Site.

Table 6: Surface water monitoring locations

6.4 Field Testing

6.4.1 Monitoring of VOCs was undertaken on soil samples at locations STPK01, STPK02, SBHK02CP and SBHK04CP (Norwest Holst, 2008), and BH526, BH527, BH528, BH529, BH530, TP510, TP511, TP512 and TP513 (Geotechnical Engineering 2015).

6.5 Groundwater Monitoring

6.5.1 The groundwater sampling, groundwater monitoring and ground gas monitoring rounds are shown in Table 7.

Table 7: Summary of Monitoring Rounds

Location Ref.	Number of Rounds (Date of Sampling)	Monitoring Details	Notes
RBBH003	6 no. 1st March 2002, 21st March 2002, 17th April 2002, 5th November 2002, 28th November 2002, 14th January 2003	Groundwater - sampling	
RBBH004	5 no. 21st March 2002, 17th April 2002, 5th November 2002, 28th November 2002, 14th January 2003	Groundwater - sampling	
RBBH005	0 no. recorded	Groundwater - sampling	
SBHK01CP	6 no. 1st February 2008, 25th February 2008, 6th March 2008, 19th March 2008, 3rd April 2008,	Groundwater - levels and sampling	

Location Ref.	Number of Rounds (Date of Sampling)	Monitoring Details	Notes
	17th April 2008.		
SBHK02CP	6 no. 1st February 2008, 25th February 2008, 6th March 2008, 19th March 2008, 3rd April 2008, 17th April 2008.	Groundwater - levels and sampling	
SBHK03CP	6 no. 1st February 2008, 25th February 2008, 6th March 2008, 19th March 2008, 3rd April 2008, 17th April 2008.	Groundwater - levels and sampling	
SBHK04CP	6 no. 1st February 2008, 25th February 2008, 6th March 2008, 19th March 2008, 3rd April 2008, 17th April 2008.	Groundwater - levels and sampling	
SBHL02CP	6 no. 1st February 2008, 25th February 2008, 6th March 2008, 19th March 2008, 3rd April 2008, 17th April 2008.	Groundwater -levels	
BH527 (35 mm)	4 no. 20th March 2015, 27th March	Groundwater - levels and	
BH527 (50 mm)	2015, 13th April 2015, 8th May 2015	sampling Soil Gas	
BH528 (35 mm)	4 no. 20th March 2015, 27th March	Groundwater - levels and	Dual installations. Gas monitoring in
BH528 (50 mm)	2015, 13th April 2015, 8th May 2015	sampling Soil Gas	35 mm shallow installations only.
BH530 (35 mm)	4 no. 30th March 2015, 14th April 2015, 21st April 2015, 11th May	Groundwater - levels and	
BH530 (35 mm)	2015, 21st April 2015, 11th May 2015	sampling Soil Gas	

6.6 Laboratory Chemical Testing

6.6.1 A summary of all laboratory analysis undertaken on soil, groundwater, leachate and surface water is summarised in Table 8 and Table 9 below.

Table 8: Summary of Previous Investigation Sampling - Intrusive Exploratory Locations

Site Investigation Date	No. of Soil Samples	No. of Leachate Samples	No. of Water Samples	Suites of Testing
1997	4	0	0	Metals, pH, sulphate, cyanide, PAH screening, phenols, mineral oil
2000	6	2	0	Metals, pH, sulphate, cyanide, PAH screening, TPH, oil, phenol, PCBs
2002	3	0	9	Metals, pH, phenol, sulphate, cyanide, asbestos, TOC, TPH and PAH speciated, PCBs, BTEX, SVOCs

Site Investigation Date	No. of Soil Samples	No. of Leachate Samples		Suites of Testing
2008	10	6	8	Metals, pH, sulphate, asbestos, cyanide, phenol, MTBE, BTEX, TPH, PAH
2015	14	4	18	Metals, PAH, TPH, asbestos, pH, cyanide, organic matter, sulphate, sulphur, VOCs, SVOCs, nitrate, BTEX, phenols, PCBs

Table 9: Summary of Previous Investigation Sampling - Surface Water

Site Investigation date	No. of water sample locations / number of rounds	Suites of testing
2007/2008	3 locations / 4 rounds	Metals, inorganics, quality
2015	3 locations / three rounds	Inorganics, PAH, TPH, BTEX, VOCs, Phenols, quality
2015	3 locations / 1 round	Inorganics, PAH, TPH, BTEX, quality

Soil Analysis

- 6.6.2 The following sections summarise the laboratory analytical results for soil samples collected during the various intrusive investigation phases. The available data set has been tabulated and is presented in Appendix 3 with the supporting laboratory certificates available in the relevant original ground investigation reports (See Table 4).
- 6.6.3 To inform the conceptual ground model, the analytical data from the Made Ground has been segregated from those of the natural soils (Tidal Flat Deposits specifically).
- 6.6.4 For the purpose of meeting the requirements of Volume 4, Section 1, Part 2 of the DMRB (HD22/08 Managing Geotechnical Risk 2008 (Highway Agency, 2008), the historical data used to support the PSSR and the additional 2015 information (Geotechnical Engineering, 2015) have been differentiated in the following sections.
- **6.6.5** The available information has been summarised in Table 10.

Table 10: Summary of Analytical Soil Data

Formation	Number of Soil Analysis per Analytical Suite - 2015 data/ All Gl data								
Unit	Metals & Inorganics	Asbestos	PAH	ТРН	Phenol	BTEX	VOCs	SVOCs	
Made Ground	7 / 22	7 / 11	7 / 15	7 / 15	0 / 15	3/7	3/3	1/1	
Natural Soils	7 / 15	1/7	7 / 15	4 / 12	0/8	3/9	3/3	1/1	

Soil Leaching Analysis

6.6.6 Similarly to the soils data, the soil leachate results have been considered for the Made Ground and natural soils separately. The available information is presented in Appendix 6 and summarised in Table 11.

Table 11: Summary of Soil Leaching Analytical Data

Formation	Number of Soil Leachate Analysis per Analytical Suite - 2015 data / All Gl data								
Unit	Metals & inorganics	PAH	ТРН	Phenol	BTEX	VOCs	SVOCs	PCBs	
Made Ground	3/9	3/3	3/3	3/3	3/3	0/0	0/0	0/0	
Natural Soils	1/3	1/1	1/1	1/1	1/1	1/1	1/1	1/1	

Groundwater Analysis

- 6.6.7 The following section summarises the laboratory analytical results for groundwater samples collected during the various intrusive investigation phases. The available data set has been tabulated and is presented in Appendix 4 with supporting laboratory certificates available in the relevant original ground investigation reports.
- 6.6.8 The available data relates to groundwater samples taken from wells installed within the groundwater of the Tidal Flat Deposits and/or Mercia Mudstone and is summarised in Table 12.

Table 12: Summary of Analytical Groundwater Data

	Number of Groundwater Analysis per Analytical Suite (number of well locations) – 2015 data / All Gl data								
Groundwater Unit	Metals & Inorganics	PAH	ТРН	РСВ	втех	voc	SVOC	Non Metal Inorganics	Phenois
Perched (Made Ground)	0 (0) / 7 (5)*	0 (0) / 7 (5)*	0 (0) / 7 (5)*	0 (0) / 1 (2)*	0 (0) / 4 (2)	0 (0) / 0 (0)	0 (0) / 0 (0)	0 (0) / 7 (5)*	0 (0) / 5 (5)*
Perched (Tidal Flat Deposits)	9 (3) / 13 (5)	9 (3) / 13 (5)	9 (3) / 13 (5)	6 (2) / 6 (2)	9 (3) / 13 (5)	9 (3) / 9 (3)	9 (3) / 13 (5)	9 (3) / 13 (5)	9 (3) / 13 (5)
Groundwater (Mercia Mudstone)	9 (3) / 9 (3)	9 (3) / 9 (3)	9 (3) / 9 (3)	6 (2) / 6 (2)	9 (3) / 9 (3)	9 (3) / 9 (3)	9 (3) / 9 (3)	9 (3) / 9 (3)	9 (3) / 9 (3)
Undifferentiated	0 (0) / 9 (3)	0 (0) / 3 (3)	0 (0) / 3 (3)	0 (0) / 0 (0)	0 (0) / 0 (0)	0 (0) / 0 (0)	0 (0) / 0 (0)	0 (0) / 9 (3)	0 (0) / 0 (0)

^{*} Some samples relate to grab samples obtained within trial pits during 2000 ground investigation.

Surface water Analysis

6.6.9 The following section summarises the laboratory analytical results for surface water samples collected during the various intrusive investigation phases. The available data set has been tabulated in a table format and is presented in

Appendix 5 with supporting laboratory certificates available in the relevant original ground investigation reports.

Table 13: Summary of Analytical Surface Water Data

Surface	Number of Water Analysis per Analytical Suite (number of locations) – 2015 data / All Gl data							
Water System	Metals & Inorganics	Water Quality Parameters	Polycyclic Aromatic Hydrocarbons	Total Petroleum Hydrocarbon	втех			
Elver Pill Reen	5 (2)/ 1 (2)	5 (2)/ 1 (2)	1 (1) / 0 (1)	5 (2)/ 1 (2)	1 (1) / 0 (1)			
Greenmoor Triangle	4 (1) / 0 (1)	4 (1) / 0 (1)	0 (1) / 0 (1)	4 (1) / 0 (1)	0 (1) / 0 (1)			
Windmill Reen	4 (1) / 0 (1)	4 (1) / 0 (1)	0 (1) / 0 (1)	4 (1) / 0 (1)	0 (1) / 0 (1)			
Middle Road Reen Diversion	6 (3) / 3 (3)	6 (3) / 3 (3)	6 (3) / 3 (3)	6 (3) / 3 (3)	6 (3) / 3 (3)			
100 Perches Reen	1 (1) / 1 (1)	1 (1) / 1 (1)	1 (1) / 1 (1)	1 (1) / 1 (1)	1 (1) / 1 (1)			

6.7 Gap Analysis of Available Data

6.7.1 The investigation data available for the Site is considered reasonable as there has been sampling along the length of the new section of motorway. However, no investigation data is available within the Green Moor landfill (three areas of tipping) and within the proposed water treatment area. The latter are located adjacent to the Llanwern Works East Landfill and Llanwern Steelworks main operation areas.

7 Ground Conditions

7.1 Geology

7.1.1 The geological logs for all available exploratory holes on the Site are provided in Appendix 1. The observed geological sequence is consistent with that discussed in the 2014 PSSR report and is summarised in the following sections. Information from the Supplementary Ground Investigation (Geotechnical Engineering, 2015) has also been used.

Topsoil

7.1.2 Topsoil was encountered at nine locations across the Site. It was generally at ground level above the superficial deposits and ranged between 0.05 to 0.3 m thickness. One exception was in CH52A where the topsoil was encountered at 1.1 m bGL below the Made Ground.

Made Ground

- 7.1.3 Made Ground was encountered in eighteen exploratory locations at ground level at thicknesses ranging between 0.8 3.2 m. It is considered the majority of Made Ground relates to construction material for the existing access roads which cross the Site and is generally at 1 m above surrounding ground levels. Made Ground was also identified in the ponded area in the north west of Site. It commonly comprised a grey / black coarse material comprising slag, ash and occasionally bricks.
- **7.1.4** Made ground was not identified in seventeen locations on the Site, the majority of which were located in the south and east.
- **7.1.5** The investigation data has not identified Made Ground which may be associated with landfilling. However, it is noted that no exploratory hole has targeted the Green Moor Landfill areas.

Superficial Deposits

- 7.1.6 Unconsolidated superficial deposits were encountered beneath the Made Ground or topsoil in all locations. These comprised Tidal Flat Deposits, generally firm bluish grey clays becoming soft or very soft with occasional gravel.
- 7.1.7 The deposits included one or two layers of peat beneath the Site with an upper layer encountered at typically 4.6 6 m bGL and a second layer at typically 5.25 8 m bGL. The horizontal continuity of these layers remains unproven. The thickness of the peat layers was variable between 0.1 2.8 m.
- 7.1.8 Sand and gravel material considered to represent Glaciofluvial Deposits was found to be generally absent beneath the Site, although some boreholes proved the base of the Tidal Flat Deposits to include a coarse fraction. A discrete pocket of the Glaciofluvial Deposits (identified as River Terrace Deposits in the borehole log) was found in SBHL01CP at a depth of 8.5 m bGL with a thickness of 1.9 m.

Solid Geology

- **7.1.9** Below the Superficial Deposits, the Mercia Mudstone Group was encountered at a depth of between 8.1 and 11.2 m bGL. The Mercia Mudstone Group was typically described as very stiff weathered reddish brown clay.
- **7.1.10** Borehole BHL2 in the Mercia Mudstone Group encountered siltstone formation below 10.5 m bGL to an unknown thickness (0.5 m proven).

Geological Sequence Summary

7.1.11 The general geological sequence identified during the previous ground investigations are summarised in Table 14 below.

Table 14: Summary of Geological Sequence

Unit	Description	Thickness Range (m)	Basal Depth m bGL)
Topsoil	-	0.05 - 0.3	0.05 - 1.2
Made Ground (associated with road construction)	Predominantly coarse to including ash, clinker, brick and slag.	0.5 - 3.2	0.5 - 3.2 (road generally 1m raised above surrounding ground level)
Superficial Deposits (Tidal Flat Deposits)	Silty clay, organic in places with at least one defined peat layer	7.45 - 11.2	8.1 - 11.2
Superficial Deposits (Glaciofluvial Deposits) – Discrete pockets	Gravel (SBHL01 only)	Generally absent – 1.9 m at SBHL01	10.4
Mercia Mudstone Group (Mudstone)	Very stiff clays becoming weak completely fractured Mudstone	unproven (>0.5)	unproven

7.1.12 The conceptual ground model included within the 2014 PSSR report has been amended in light of the 2015 information and is included within Figure 2.

7.2 Visual and Olfactory Evidence of Contamination

7.2.1 A summary of visual and olfactory evidence of potential contamination encountered during the previous ground investigations is summarised in Table 15.

Table 15: Visual and Olfactory Evidence of Contamination Summary

Location ID	Depth (m bGL)	Strata	Evidence of Potential Contamination
Most exploratory locations in the west	GL to 0.5 - 3.2	Made Ground	Ash, clinker, brick and slag.

7.2.2 No visual or olfactory evidence of hydrocarbon contamination was identified during any of the previous ground investigations. The PID meter recorded generally zero or low levels of VOCs with greatest concentrations recorded within BH529 within the Tidal Flat Deposits in which frequent rootlets were identified (15 to 24 ppm). In the absence of any significant source of contamination, the levels identified are considered to be naturally occurring.

7.3 Gas Monitoring

7.3.1 The ground gas monitoring dataset collected during each of the three monitoring rounds in 2015 is summarised on the summary field data sheets provided in Appendix 2. The maximum concentrations (minimum for oxygen) are presented in Table 16.

Table 16: Summary of Gas Monitoring Data

Location	Flow (I/hr)	VOCs (ppm)	CH4 (%/vol)	Peak LEL (%)	CO2 (%/ vol)	O2 (%/vol)	CO (ppm)	H2S (ppm)
ID	Max	Max	Max	Max	Max	Min	Max	Max
BH527 35mm	1.3	3.2	3.4	61	0.0	19.6	0	0
BH528 35mm	0.4	0.4	31	>100	8.1	11.8	5	0
BH530 35mm	0.0	1.1	14.8	>100	5.3	15.0	10	0

7.4 Groundwater

Groundwater Encountered During Investigation

7.4.1 Groundwater strikes were encountered during the drilling of most boreholes and are detailed on the geological logs provided in Appendix 1. These are summarised in Table 17.

Table 17: Summary of Groundwater Level Data during Drilling

Location	Strike Depth (m bGL)	Geological Formation	Level after 20 Minutes (m bGL)
BHK2	6.8	Tidal Flat Deposits	6.8
DHKZ	10.75	Mercia Mudstone	9.5
BHK3	10.8	Mercia Mudstone	7.1
BHK4	1.1	Made Ground	1
BHK5	9.2	Mercia Mudstone	5.4
	1.68	Tidal Flat Deposits	1.68
BHL1	6.1	Tidal Flat Deposits	5.8
	10.4	Mercia Mudstone	8.8
BHL2	10.4	Mercia Mudstone	9.05

Location	Strike Depth (m bGL)	Geological Formation	Level after 20 Minutes (m bGL)
CH51	0.8	Made Ground	not recorded
CH52A	0.8	Made Ground	not recorded
CH53	1.5	Tidal Flat Deposits	not recorded
CH54	1.6	Tidal Flat Deposits	not recorded
RBBH3	0.7	Made Ground	0.7
RBBH5	1.5	Made Ground	1.3
SBHK02CP	1	Made Ground	0.8
SBHL01CP	8.5	Tidal Flat Deposits	5.2
SBHL02CP	10.8	Mercia Mudstone	10.8
SBHL02RC	12	Mercia Mudstone	not recorded
STPK01	0.89	Tidal Flat Deposits	not recorded
STPK02	1.12	Made Ground	not recorded
STPL01	1.39	Tidal Flat Deposits	not recorded
BH526	2.5	Tidal Flat Deposits	2.1
BH528	0.25	Tidal Flat Deposits	0.20
BH529	0.9	Tidal Flat Deposits	0.52
TD540	1.05	Made Ground	not recorded
TP510	3.8	Tidal Flat Deposits	not recorded
TP511	1.05	Made Ground	not recorded
TP512	1.5	Tidal Flat Deposits	not recorded
TP513	2.9	Tidal Flat Deposits	not recorded

7.4.2 Groundwater was not recorded in any other boreholes and trial pits during the previous investigations.

Groundwater Levels During Monitoring Rounds

Table 18: Summary of Groundwater Level Data

Location	Installation #1	Depth of Response Zone (m bGL) and Geological Formation	No. Measurements	Min Depth (m bGL)	Max Depth (m bGL)
SBHK01C P	50 mm	4.8 - 6.8 TFD	6	0.70	1.06
SBHK02C P	50 mm	7.2 - 11.2 TFD	6	1.33	1.48
SBHK03C P	50 mm	4.9 - 5.9 TFD	6	0.87	1.07
SBHK04C P	50 mm	10.2 - 12.2 TFD / MMG	6	1.45	1.67
SBHL02R C	19 mm	14.8 - 15.4 MMG	6	2.27	2.45
BH527	35 mm (S)	4.9 - 9 TFD	4	0.67	2.74

Location	Installation #1	Depth of Response Zone (m bGL) and Geological Formation	No. Measurements	Min Depth (m bGL)	Max Depth (m bGL)
	50 mm (D)	12.9 - 19 MMG	4	1.71	3.10
BH528	35 mm (S)	6 - 7 Peat / TFD	4	0.49	1.63
БП326	50 mm (D)	11.8 - 17 MMG	4	1.28	2.90
DUISO	35 mm (S)	5 - 8 Peat / TFD	4	1.52	2.62
BH530	50 mm (D)	12 - 21 MMG	4	2.00	3.49

^{#1} S denotes a shallow installation and D denotes deep installation;

Groundwater Summary

- 7.4.3 A perched water body was typically encountered within the Made Ground during the investigations between 0.7 and 1.3 m bGL.
- 7.4.4 The main groundwater body is within the granular Mercia Mudstone Group, which is confined by the intervening Tidal Flat Deposits representing an aquitard limiting vertical groundwater flow.
- 7.4.5 Perched groundwater is observed within the upper Tidal Flat Deposits associated with limited zones of permeability associated with more granular lithologies and peat. This 'groundwater' is regarded as 'pore water' which does not contribute to advective flow within these strata.

8 Contamination Assessment

8.1 Introduction

- **8.1.1** The following sections provide details of the assessment of land contamination at the Site.
- 8.1.2 The outline Conceptual Site Model (CSM) presented within the 2014 PSSR has been reviewed and updated based on data from the Supplementary Ground Investigation (Geotechnical Engineering, 2015) and the Scheme. The main alteration to the 2014 PSSR model are summarised below:
 - Addition of gas dataset from borehole monitoring wells on Site.
 - Proposed use of band drains to accelerate surcharging of soft soils during construction. These are anticipated to be vertical drains installed in a close grid pattern through the Made Ground and underlying Tidal Flat Deposits and into the Glaciofluvial Deposits.
 - Piled foundations proposed for the bridge / link road junction.
 - Inclusion of a defined peat horizon.
 - Update of the source/pathway/receptor linkages.

8.2 Preliminary Risk Assessments

Potential Sources

- **8.2.1** The potential sources of contamination and associated contaminants which may be present within the Site are detailed below:
 - Made Ground used for road construction across the Site.
 - Waste material associated with landfill activity (Green Moor Landfill) details not known in the absence of intrusive investigation data although extent anticipated to be limited based on historical mapping and aerial photographs.
 - There is the possibility of ground gas generation from infilled ground and the presence of ground gas generated by natural organic rich soils beneath the Site.
 - The quality of surface water drainage, perched water and the deep aquifer within the Glaciofluvial Deposits and Mercia Mudstone may influence or impact the quality of the others. Surface water, perched groundwater and aquifer could therefore be regarded as a source of possible contaminants as well as receptors. The waters associated with the Glaciofluvial deposits, Mercia Mudstone and Tidal Flat Deposits are saline whereas the surface water is not.
- 8.2.2 The north-west corner of the Site includes the Reedbed No.2 of the Llanwern Steelworks which receives all surface waters from the factory and lagoons prior to being discharged within the estuary.
- **8.2.3** The Site is also surrounded by three potential sources of contamination:
 - To the north of the Site beyond Queen's Way (A4810) is Llanwern Steelworks.

- At the north eastern end of the Site is the Llanwern Works East Landfill which accepted industrial waste.
- To the west of the Site lies Llanwern Lagoon 26. The information related to the lagoon is discussed in more detail in the Land Contamination Assessment Report CL-26 Lagoons (Annex D of Appendix 11.1 of the ES). Whilst Lagoon 26 is a permitted landfill, previous ground investigation proved minimal waste to be present, comprising mainly slag material with brick and concrete inclusions to typically 1-3 m in thickness. The soil contamination was associated with high pH and discrete areas of heavy metals (arsenic and nickel). Groundwater quality is considered to be similar to the overall baseline seen in this general area of the Gwent Levels as defined within the Baseline Water Environment Report (RPS, 2015).
- 8.2.4 In addition to the above sources, the quality of surface waters, perched groundwater and the deeper aquifer within the Glaciofluvial Deposits and Mercia Mudstone bodies may influence or impact the quality of the others (for instance the groundwater within the Glaciofluvial Deposits and Mercia Mudstone is saline whilst the surface water is not). Surface water, perched groundwater and deeper aquifer are therefore regarded as a source of possible contaminants as well as receptors.

Potential Receptors

8.2.5 The following potential receptors have been identified:

Construction

- Construction workers during Site development works.
- General public and workers adjacent to construction works.
- Groundwater within the Glaciofluvial Deposits / Mercia Mudstone.
- Onsite and nearby surface waters including the reens and existing surface water ditches within the Site and bordering the surrounding fields. This land drainage is part of the Gwent Levels SSSI wider network of reens and ditches, which extends to the south of the Scheme.

Operational

- Maintenance workers.
- · General public end users.
- Groundwater within the Glaciofluvial Deposits and/or Mercia Mudstone.
- The Gwent Levels SSSI surface water network of ditches and reens.

Potential Pathways

- Dermal contact, ingestion, inhalation pathways possible during development and maintenance works.
- Inhalation pathways for general public future end users.
- Contaminated surface water run-off into existing / new drainage system.
- Leaching of contaminants from Made Ground to perched water.

- Vertical migration of perched water within the Made Ground and/or leachate from the Made Ground into Tidal Flat Deposits and/or Mercia Mudstone aguifer due to band drain / pile installation.
- Lateral migration of perched water within the Made Ground to land drainage (surface waters).
- Leaching of contaminants from the Made Ground to shallow groundwater and then migration to land drainage (surface waters).
- Vertical or lateral migration of ground gas associated with Made Ground and peat and organic soils.

8.3 Risk Evaluation

- 8.3.1 Source-pathway-receptor linkages were considered in the 2014 PSSR using the historical data available up to 2008. With review of the new data described herein, the following risk evaluation has been reconsidered:
 - Proposed 2–3 m motorway embankment and overlying hardstanding (carriage way) is to be constructed at the Site which is to cover most of the motorway corridor reducing pathways from any contamination in shallow soils left in situ.
 - Tidal Flat Deposits are classified as non-productive and overlie an underlying secondary B aquifer associated with the Mercia Mudstone.
 - The low permeability Tidal Flat Deposits (of over 10 m thickness) separates the various onsite and offsite Made Ground and deeper aquifer. Main groundwater body identified as being confined by the Tidal Flat Deposits.
 - Perched groundwater within the Tidal Flat Deposits is not considered a water resource due to its anticipated low vertical hydraulic continuity with the aquifer beneath, low permeability and low storage capacity.
 - Hardstanding cover which is proposed in some areas of the new motorway corridor is likely to limit infiltration thus reducing leaching.
 - Creation of new drainage system may increase leaching of any contaminants from the Made Ground with associated increase in the risk for migration into surface waters.
 - Piled and band drain foundations may create pathways to groundwater at depth. Pathways may allow increase in the influx of water within the Made Ground, given the recorded sub-artesian pressures.
 - Motorway users will be within open environment with no proposed structures or other confined spaces.
 - Risk of increase flux of gas emission due to induced consolidation of the Made Ground and peat from the proposed surcharge loading. However, potential receptors are limited, primarily associated to accumulation in confined spaces (such as underground services).
 - Waters within the Tidal Flat Deposits and deeper aquifer of the Mercia Mudstone are saline whereas surface water is not.

8.4 Human Health Risk Assessment

8.4.1 The rationale and approach for the human health (Tier 2) screening assessment is detailed in the Land Contamination Preliminary Assessment Report (Appendix 11.1 of the ES). Soil chemical results and the findings of the generic tier 2 human health risk assessment are presented in Appendix 3. All exceedances to the relevant criteria are summarised in Table 19 below.

Determinant	Units	Range	Screening Criteria	No. Samples Exceeding Screening Criteria (Total Number of Results)	Locations of Exceedances
Chromium	mg/kg	32 - 1,800	33	33 (37)	BHK3 (x2), BHK4 (x2), CH51, CH52A (x2), CH53A (x2), CH54A, RBBH3, RBBH4, RBBH5, SBHK03CP (x2), SBHK02CP, SBHK04CP (x2), STPK01 (x2), STPK02 (x2), BH526 (x3), BH527 (x2), BH528, BH530 (x2), TP510 (x3)
рН	pH units	7.1 - 12.9	6 - 9	20 (37)	BHK4 (x2), CH51, CH52A, CH53A, CH54A, RBBH3, RBBH4, RBBH5, SBHK03Cp, SBHK02CP, STPK02, BH526 (x3), BH527 (x2), TP510 (x 3)
PAH	mg/kg	<10 - 82	3.5	4 (6)	CH51, CH52A (x2), CH53A

- **8.4.2** Elevated alkaline soil conditions have been identified in over half of the samples, mainly within the Made Ground material but also in three samples of the Tidal Flat Deposit material.
- 8.4.3 Although exceedances to chromium are widespread in both Made Ground and natural soils, the criterion relates to the hexavalent. The majority of the results are considered to be within normal background data range (<95 mg/kg) and therefore are not considered to represent a contaminant of concern (RPS, 2015a). However, nineteen locations including a distinct cluster around TP510, STPK02 and SBHK03, exceed this background range with maximum of up to 1,800 mg/kg. It is likely that the elevated chromium concentrations are related to the slag used to construct access roads. Further sampling and analysis is needed to determine whether the elevated levels relate to hexavalent chromium.
- **8.4.4** PAHs are identified in exceedances over half of the samples analysed without speciation. In this instance the criterion for total PAH has been taken considering

- the most stringent PAH compound (Dibenzo(ah)anthracene) and the elevated PAHs are mainly associated with Made Ground used for road construction.
- 8.4.5 All phenols, BTEX, VOCs and SVOCs were at levels below the laboratory limit of detection. PAHs and TPH were identified at low levels at both locations, however, this is considered unlikely to pose a risk to human health.
- 8.4.6 No other exceedances of the applied assessment criteria have been identified and no asbestos fibres were detected visually or in samples analysed in the laboratory.

8.5 Controlled Waters Screening Assessment

- 8.5.1 The rationale and approach for the controlled waters (Tier 1) screening assessment is detailed in the Land Contamination Assessment Report (Appendix 11.1 of the ES) and the groundwater chemical results are presented in Appendix 4. All exceedances to the relevant generic criteria are summarised in Table 20, 21 and 22 for soil leachate, groundwater and surface water, respectively.
- Where an EQS is dependent on water hardness i.e. some heavy metals, the hardness of the surface water receptor should normally be used. The Groundwater Baseline Report (Appendix 16.2 of the ES) indicates surface water to be generally moderately hard with hardness concentrations within a range of 100 to 150 mg/l as calcium carbonate. Therefore EQSs within this water hardness range have been used for screening purposes.

Soil Leaching Results

8.5.3 Twelve soil samples were subjected to leaching analysis. The majority of the soilleaching results were all below the applied screening criteria, with the exception of the contaminants in Table 20.

Table 20: Controlled Waters screening exceedances – soil leaching

Determinant	Units	Range	EQS	DWS	No. Exceeded EQS Screening Criteria (Total Number of Results)	Location	No. Exceeded DWS Screening Criteria (Total Number of Results)	Location (Formation)
Arsenic	µg/l	<1 - 27	50	10	0 (10)	-	3 (10)	SBHK03CP, BH526, TP510 (All Made Ground)
Boron	μg/l	<10 - 1,200	2,000	1,000	0 (10)	-	1 (10)	SBHK03CP (Made Ground)
Copper	μg/l	<1 - 14	10	2,000	2 (10)	STPK01, BH526 (Both Made Ground)	0 (10)	-

Determinant	Units	Range	EQS	DWS	No. Exceeded EQS Screening Criteria (Total Number of Results)	Location	No. Exceeded DWS Screening Criteria (Total Number of Results)	Location (Formation)
Nickel	μg/l	<1 - 20	4	20	5 (10)	SBHK03CP, STPK01, STPK02, BH526 (all Made Ground), SBHK04CP (Tidal Flat Deposits)	0 (10)	-
Lead	μg/l	<1 - 1,500	1.2	10	5 (10)	SBHK02CP, SBHK03CP, STPK01, STPK02 (All Made Ground), SBHK04CP (Tidal Flat Deposits)	3 (10)	SBHK02CP, SBHK03CP (Made Ground), SBHK04CP (Tidal Flat Deposits)
Antimony	μg/l	<5 - 8		5	-	-	1 (6)	SBHK03CP (Made Ground)
рН	pH Units	10.9 - 11.8	6 - 9	6.5 - 10	2 (2)	CH51, CH53A (Made Ground)	2 (2)	CH51, CH53A (Made Ground)

- 8.5.4 The leaching analysis in some samples of Made Ground indicates that arsenic, copper, nickel and lead are leachable such that concentrations would exceed EQS's. Similarly pH in leachate is alkaline (10.9-11.8) The leachable concentrations are generally associated with slag materials in the Made Ground used to construct the roadways. However, it is noticeable that although potential leachate could be generated, surface water sampling has not identified similar concentrations or pH levels and the roadways constructed from slag do not appear to currently be impacting surface water quality. This indicates there is no currently active pathway from the Made Ground to surface waters.
- 8.5.5 The laboratory detection levels for cadmium, mercury, cyanide, some PAH, VOC and SVOC compounds are higher than applied screening criteria. This is considered unlikely to pose a risk to controlled waters.

Groundwater Results

8.5.6 The groundwater results assessment includes data from three grab samples taken from within the Made Ground during the 2000 investigation, three monitoring rounds at boreholes RBBH3, RBBH4 and RBBH5 in 2002, two monitoring rounds at boreholes SBHK01, SBHK02, SBHK03 and SBHK04 in 2008 and three monitoring rounds from boreholes BH527, BH528 and BH530 in 2015. These groundwater samples were taken from the aquifer body within the

Mercia Mudstone and from perched groundwater within the Tidal Flat Deposits. Samples were also collated from other monitoring wells but results were not differentiated between each groundwater body and are presented as 'undifferentiated'.

8.5.7 The summary of the exceedances of the applied assessment criteria is presented in Table 21 and discussed below.

Table 21: Groundwater screening exceedances

Determinant	Units	Range	EQS	DWS	No. exceeded Screening Criteria (Total Number of Results) against EQS	Location of Exceedances	No. Exceeded Screening Criteria (Total Number of Results) against DWS	Location of Exceedances
Perched Water	(Made Gro	und)						
Nickel	μg/l	2 - 5	4	20	1 (3)	CH52	0 (3)	-
Cyanide	μg/l	<0.025 - 0.09	0.001	0.05	1 (3)	CH51	1 (3)	CH51
рН	pH Units	7.5 - 11.9	6-9	6.5-10	2 (3)	CH51, CH52A	2 (3)	CH51, CH52A
Benzo(a)pyren e	μg/l	<0.05 - 0.06	0.00017	0.01	1 (3)	CH52A	1 (3)	CH52A
Benzo(b)fluora nthene	μg/l	<0.05 - 0.07	0.017	0.1	1 (3)	CH52A	0 (3)	-
Fluoranthene	μg/l	<0.05 - 0.16	0.0063	-	1 (3)	CH52A	0 (3)	-
Groundwater (T	idal Flat De	eposits)						
Arsenic	μg/l	<1 - 40	50	10	0 (17)	-	13 (17)	SBHK01, SBHK02, SBHK03, SBHK04,BH527, BH528), BH530
Boron	µg/l	<20 - 1,900	2,000	1,000	0 (9)	-	5 (9)	BH527, BH528, BH530
Chromium	μg/l	<1 - 110	-	50	-	-	4 (17)	BH527, BH528, BH530
Copper	μg/l	<1 - 41	10	2,000	6 (17)	SBHK04, BH527, BH528, BH530	0 (17)	-

Determinant	Units	Range	EQS	DWS	No. exceeded Screening Criteria (Total Number of Results) against EQS	Location of Exceedances	No. Exceeded Screening Criteria (Total Number of Results) against DWS	Location of Exceedances
Iron	µg/l	<50 - 3,000	1,000	200	1 (8)	SBHK01	4 (8)	SBHK01, SBHK02, SBHK03
Lead	μg/l	<1 - 4.8	1.2	10	3 (17)	SBHK01, SBHK02, SBHK04	0 (17)	-
Manganese	μg/l	560 - 1,800	30	50	8 (8)	SBHK01, SBHK02, SBHK03, SBHK04	8 (8)	SBHK01, SBHK02, SBHK03, SBHK04
Nickel	μg/l	<1 - 20	4	20	10 (17)	SBHK01, SBHK02, SBHK03, SBHK04, BH527, BH528, BH530	0 (17)	-
Selenium	μg/l	<1 - 60	-	10	-	-	10 (17)	SBHK01, SBHK02, SBHK03, SBHK04, BH527, BH528, BH530
Cadmium	μg/l	<0.08 - 8.8	0.15	5	8 (17)	SBHK01, SBHK02, SBHK03, SBHK04, BH527, BH530	2 (17)	SBHK01
Mercury	μg/l	<0.5 - 1.2	0.07	1	5 (17)	BH527, BH528, BH530	1 (17)	BH527
Zinc	μg/l	<1 - 4,800	75	-	8 (17)	SBHK01, SBHK02, SBHK03, SBHK04	-	-
BOD	mg/l	<1 - 12	5	-	3 (8)	SBHK01, SBHK03	-	-
Sodium	mg/l	590 - 3,500	-	200	-	-	8 (8)	SBHK01, SBHK02, SBHK03, SBHK04

Determinant	Units	Range	EQS	DWS	No. exceeded Screening Criteria (Total Number of Results) against EQS	Location of Exceedances	No. Exceeded Screening Criteria (Total Number of Results) against DWS	Location of Exceedances
Sulphate	mg/l	71 - 550	400	250	3 (8)	SBHK03, SBHK04	5 (8)	SBHK02, SBHK03, SBHK04
Chloride	mg/l	330 - 5,300	250	250	16 (17)	SBHK01, SBHK02, SBHK03, SBHK04, BH527, BH528, BH530	16 (17)	SBHK01, SBHK02, SBHK03, SBHK04, BH527, BH528, BH530
Ammoniacal Nitrogen	mg/l	<0.01 - 35	0.6	-	16 (17)	SBHK01, SBHK02, SBHK03, SBHK04, BH527, BH528,	-	-
Total Ammonium	mg/l	6.8 - 35	-	0.5	-	-	4 (4)	SBHK01, SBHK02, SBHK03, SBHK04
Aquifer (Mercia	Mudstone)							
Arsenic	μg/l	15 - 120	50	10	3 (9)	BH528, BH530	9 (9)	BH527, BH528, BH530
Boron	μg/l	390 - 1,500	2,000	1,000	0 (9)	-	4 (9)	BH527, BH528
Chromium	μg/l	22 - 240	-	50	-	-	5 (9)	BH527, BH528, BH530
Copper	μg/l	9.9 - 110	10	2,000	8 (9)	BH527, BH528, BH530	0 (9)	-
Nickel	μg/l	<1 - 5.9	4	20	4 (9)	BH528, BH530	0 (9)	
Selenium	μg/l	7.8 - 180	-	10	-	-	7 (9)	BH527, BH528, BH530
Mercury	μg/l	<0.5 - 1.3	0.07	1	4 (9)	BH527, BH528, BH530	2 (9)	BH527, BH528

Determinant	Units	Range	EQS	DWS	No. exceeded Screening Criteria (Total Number of Results) against EQS	Location of Exceedances	No. Exceeded Screening Criteria (Total Number of Results) against DWS	Location of Exceedances		
Chloride	mg/l	1,500 - 4,800	250	250	9 (9)	BH527, BH528, BH530	9 (9)	BH527, BH528, BH530		
Ammoniacal Nitrogen	mg/l	2.6 - 12	0.6	-	9 (9)	BH527, BH528, BH530	-	-		
рН	pH units	7.3 - 9.1	6 - 9	6.5 - 10	1 (9)	BH527	0 (9)	-		
Undifferentiated	Undifferentiated (Perched groundwater: Tidal Flat Deposits / Aquifer: Mercia Mudstone)									
Iron	μg/l	<10 - 640	1,000	200	0 (9)	-	3 (9)	RBBH4		
Lead	μg/l	<1 - 3	1.2	10	3 (9)	RBBH4, RBBH5	0 (9)	-		
Nickel	μg/l	3 - 10	4	20	5 (9)	RBBH3, RBBH4, RBBH5	0 (9)	-		
Sodium	mg/l	112 - 268	-	200	•	-	2 (3)	RBBH3		
Sulphate	mg/l	106 - 347	400	250	0 (9)	-	3 (9)	RBBH3		
Ammoniacal Nitrogen	mg/l	0.2 - 7.2	0.6	-	8 (9)	RBBH3, RBBH4, RBBH5	-	-		
Cyanide	μg/l	<0.05 - 0.4	0.001	0.05	3 (9)	RBBH4	3 (9)	RBBH4		
рН	pH units	7.4 - 12.7	6 - 9	6.5 - 10	4 (9)	RBBH4, RBBH5	3 (9)	RBBH5		

- 8.5.8 The review of the water chemical testing results indicated that the perched water within the Made Ground at the Site (based on three samples) has discrete areas of elevated levels of nickel, cyanide and some PAH compounds including benzo[a]pyrene, benzo[b]fluoranthene and fluoranthene (all found at CH52A). In addition to these exceedances of the screening criteria, elevated levels of TPH were identified, with a maximum concentration of 5,700 μg/l found at location CH51. Both CH51 and CH52A are associated with high pH. These two locations are located about 150 m south of the new section of motorway and associated land take and are not expected to be disturbed during construction of the Scheme.
- 8.5.9 The groundwater within the Tidal Flat Deposits is identified to have elevated levels of metals (arsenic, boron, chromium, copper, iron, lead, manganese, nickel, selenium, cadmium, mercury and zinc) and inorganics above screening criteria. TPH was generally below the laboratory limit of detection, however two boreholes BH527 and BH530 were identified to have concentrations of 1,900 μ g/l and 23 μ g/l, respectively. For both boreholes, the results were associated with the first round, with the subsequent two monitoring rounds giving concentrations below laboratory limit of detection. All PAH, VOCs, SVOCs, phthalates, phenols, organics and PCB results were found below limit of detection.
- 8.5.10 The groundwater within the Mercia Mudstone beneath the Site has elevated levels of metals (arsenic, boron, chromium, copper, nickel, selenium and mercury) and inorganics. All PAH, VOCs, SVOCs, phthalates, phenols, organics and PCB results were found below the limit of detection. Total Petroleum Hydrocarbons (TPH) was also found below the limit of detection with the exception of BH530 where the first round gave a concentration of 100 μg/l (subsequent two gave non-detects).
- 8.5.11 The chemical analysis results for the undifferentiated waters within the Tidal Flat Deposits or the Mercia Mudstone indicate elevated levels of metals (iron, lead and nickel) and inorganics and are of similar quality to that of the groundwater within the Tidal Flat Deposits. It is noted the laboratory detection levels for some metals, PAH compounds, VOCs and SVOCs are higher than applied screening criteria. This is not considered to pose a risk to controlled waters, given the low concentrations.
- **8.5.12** Presence of high chloride concentrations indicates saline conditions exist within the perched and deep aquifers.

Surface Water

- 8.5.13 A total of nine surface water samples have been collected from the reens surrounding the Site. These have been collected from between 2007 2008, and most recently in 2015 (Appendix 16.2 of the ES and Geotechnical Engineering, 2015) as part of RPS sampling regime and included within the supplementary works commissioned by Welsh Government.
- **8.5.14** The full results are presented in the Baseline Water Quality Monitoring Report (Appendix 16.2 of the ES).

Table 22: Summary Surface Water Screening Exceedances

Parameter	Unit	No. Analyses	No. Analyses Above LOD	Minimum Concentration	Maximum Concentration	Location & Round with Max. Concentration	EQS	No. Analyses Exceeding EQS	DWS	No. Analyses Exceeding DWS	CCW Trigger Level	No. Analyses Exceeding CCW Trigger Level
Lead	ug/l	23	6	0.049	7	R15 / E3	1.2	2	10	0	250	0
Nickel	ug/l	23	10	1	4.2	2 / SW506	4	2	20	0	100	0
Cadmium	ug/l	23	7	0	2.9	2 / SW506	0.15	5	5	0	5	0
Zinc	ug/l	12	12	6	310	R15 / E4	75	2	-	-	1,000	0
BOD	mg/l	15	10	1	15.7	17.3 / Q1	5	3	-	-	18	0
Phosphorus	mg/l	3	3	229	1200	17.2 / Q1	120	3	-	-	-	-
Chloride	mg/l	20	20	21	785	17.3 / Q1	250	2	250	2	300	2
Ammoniacal Nitrogen	mg/l	23	20	0.04	1.2	SW507 / 3	0.6	1	-	-	1	1
рН	pH units	20	20	7.3	8.9	SW506 / 2	6-9	0	6.5-10	0	6.8-8.5	7
Dissolved Oxygen	%	12	12	10.5	98.2	R15 / E3	60	7	-	-	-	-
Nitrate as N	mg/l	12	7	0.9	3.6	E1 / R15	-	-	50	0	1	6
Nitrate as NO3	mg/l	15	9	1.3	15.9	E1 / R15	-	-	50	0	1	9
Nitrite as N	mg/l	12	1	< LOD	0.2	E4 / R16	-	-	0.15	1	1	0
TON	mg/l	15	8	0.9	9.43	Q1 / 17.1	-	-	50	0	2	4
Phosphate	mg/l	12	10	0.1	1.2	E3 / R14	-	-	-	-	1	3

- **8.5.15** The water quality within Elver Pill Reen and Middle Road Reen Diversion are generally similar, both of which recorded exceedances above the EQS for phosphorous and single occurrences of heavy metal exceedances such as cadmium and nickel.
- **8.5.16** Nitrates and Total Oxidised Nitrogen exceeded their respective CCW trigger levels on a number of occasions primarily at Elver Pill Reen, 100 Perches Reen, Windmill Reen and Greenmoor Triangle.
- **8.5.17** TPHwas recorded below its laboratory limit of detection throughout all sampling regimes, as were BTEX organics.

8.6 Ground Gas Risk Assessment

- 8.6.1 The ground gas data available relates to three boreholes, (BH527, BH528 and BH530), drilled during the 2015 investigation with response zones within the Tidal Flat Deposits and including peat horizons (4.9 9 m bGL, 6 7 m bGL and 5 8 m bGL respectively). Of the 4 no monitoring rounds available, the below observations have been made:
 - No monitoring was undertaken during low barometric pressure (less than 1000 mb), with the lowest conditions being 1001 mb. As such worst case atmospheric conditions for potential ground gas generation may have not been monitored.
 - Gas flow was generally recorded absent, with the exception of the first round in BH527 which recorded a peak flow of 1.3 l/hr and the first round in BH528 which recorded a flow of 0.4 l/hr before rapidly stabilising to zero.
 - Methane has been recorded up to 3.41 % on the third round in BH527, up to 31% in the third round in BH528 and absent for the other three monitoring rounds in these boreholes. In BH530 methane was absent in the first round and recorded up to 14.8% in the other three monitoring rounds. When encountered, methane concentrations were seen to reduce through the first minute's reading intervals, indicating a limited amount of gas is present within the soils. The concentrations are above the screening criterion of 1 %.
 - Carbon dioxide is absent in BH527, identified at up to 8.1 % in BH528 and up to 5.3 % in BH530. These concentrations are above the screening criteria of 5 %.
 - Trace of Volatile Organic Compounds of up to 3.2 ppm has been recorded.
 - Hydrogen sulphide was not detected throughout the monitoring.
 - Carbon monoxide was recorded at a maximum of 10 ppm in the second monitoring round at BH530. These concentrations are below the screening criteria of 30 ppm.
 - Oxygen has been recorded to be at ambient concentrations of between 19.6 -20.4 % in BH527. In BH530 it is recorded at lower concentrations during the second round at concentrations of 15 - 15.6 % and within BH528 during the third round at concentrations of 11.8 and 12.1 %.
 - Ground gas data from the Made Ground has not been collected.
- **8.6.2** The available data identifies elevated methane concentration and raised carbon dioxide that are higher than the screening criteria with ambient or depleted

oxygen conditions and these are considered representative of peat deposits with low gas generation potential.

8.6.3 A gas risk assessment has been undertaken and is set out in the Land Contamination Assessment Report Appendix 11.1 of the ES).

8.7 Summary

- 8.7.1 Made Ground has been shown to have elevated chromium concentrations above background range with maximum of up to 1,900 mg/kg. The elevated concentrations generally relate to the slag material used in the construction of roads at the Site. This material could represent a potential human health risk to future site workers and remediation may be necessary. Further sampling and analysis of these soils is recommended to determine if the chromium detected is the more toxic hexavalent form and whether remediation is needed.
- 8.7.2 Elevated alkaline soil conditions have been identified in over half of the samples, mainly within the Made Ground material but also in three samples of the Tidal Flat Deposit material. However, the pH in nearby surface water receptors is not noted to be elevated.
- 8.7.3 Made Ground tested at the Site was identified to have leachable contaminants with exceedances of arsenic, boron, copper, nickel, lead, antimony and pH. The natural soils were identified to have limited leachability with marginal exceedances of nickel and lead limited to one sample out of three. Similar elevated levels of these metals were not observed in surface water samples.
- 8.7.4 Perched water within the Made Ground has high levels of metals, pH and PAHs. Elevated TPH concentrations are also identified within the perched water. However, the area where perched groundwater within Made Ground has been identified is not going to be affected by the Scheme.
- 8.7.5 Both the perched groundwater within the Tidal Flat Deposits and the aquifer have been identified to have elevated metals and inorganics contaminants when compared to the Environment Quality Standards or the Drinking Water Standards. Localised and sporadic presence of TPH contamination is identified. The pore waters within the Tidal Flat Deposits and groundwater within the Mercia Mudstone is saline. These groundwater qualities are considered to be within the baseline of this area within the Gwent levels as defined within the Baseline Water Environment Report (RPS, 2015).
- 8.7.6 Surface waters at the boundary of the Site are generally of good quality and are comparable to the baseline surface water quality (Appendix 16.2 of the ES).
- 8.7.7 Elevated concentrations of methane along with depleted oxygen levels identified are likely attributed to the presence of organic material including peat and are consistent with the expected gas regime given the types of natural soils present beneath the Site.

9 Refined Conceptual Site Model

- 9.1.1 The results of the Supplementary Ground Investigation have enabled the original CSM presented in the 2014 PSSR to be updated. The assessment is based on the Scheme during its construction and operation phases.
- 9.1.2 A CSM to represent general ground conditions, overall Scheme layout and relevant source-pathway-receptors (each of which having a specific alphanumerical symbol attached) is presented in Figure 2.

Table 23: Conceptual Site Model

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
	Construction Stage					
		Direct dermal (1) Ingestion (3)	Likely Likely	Moderate Moderate	Moderate Moderate	Construction workers will possibly be exposed to Made Ground materials during Site construction works; however
		Inhalation of soil dust (2)	Likely	Moderate	Moderate	exposure duration will be short term only. Prior to construction, a specific risk assessment will be required in line with CDM and H&S guidance. This will enable safe
On Site Metals, inorganics and organic contaminants associated with slag and industrial rubble from the nearby steel works in particular. Sludge and industrial waste within the Green Moor Land Landfill. Road construction material (slag) in particular Off site Llanwern Lagoon26 (CL-26); Llanwern Works East Landfill; Llanwern steelworks main operation	Construction Workers (B)	Inhalation of ground gas / VOCs / hydrocarbon vapours (2)	Unlikely	Moderate	Low	methods of work and appropriate level of PPE to be put in place. As such all risks will be duly considered and suitably mitigated to protect construction workers. The contamination status is not foreseen to represent abnormal constraints to construction workers' health and safety over and above those typical of a brownfield site. A construction mat will be placed over the length and width of the proposed embankment to enable piling and band drain installation as well as general construction. This will break dermal, ingestion and inhalation pathways once placed. Made Ground comprising ash and slag used to make up the existing access roads will require removal to facilitate construction. The materials may be appropriate for reuse within the Scheme subject to meeting suitability for re-use criteria. Gap in the data has been identified and further investigations are required to delineate any potential contamination associated with the known areas of tipping associated with Green Moor Lane Landfill and along the new route of North Row and the proposed Water Treatment Area.
·	General public/site	Dermal contact with soil dust(1)	Unlikely	Moderate	Low	During construction period there is the possibility of inhalation/ ingestion of soil dust. Dust suppression
	neighbours during construction works	Ingestion of soil dust (3)	Unlikely	Moderate	Low	measures will be required during construction works. Potential contamination sources extend well beyond the
	(C)	Inhalation of soil dust (2)	Unlikely	Moderate	Low	land take. A construction mat will be placed over the length and width

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
		Inhalation of soil gas or vapours (2)	Unlikely	Moderate	Low	of the proposed embankment to enable piling and band drain installation as well as general construction. This will break dermal, ingestion and inhalation pathways once placed. Gap in the data has been identified and further investigations are required to delineate any potential contamination and confirm the risks.
		Saturated flow within perched water and groundwaters (4)	Low likelihood	Moderate	Moderate to Low	Leachable organics and inorganics identified within the Made Ground. Surface waters at the boundary of the Site are generally of good quality. The quality of perched groundwater may
	Surface water (land drainage, reens), part of Gwent Levels SSSI (C)	Contaminated surface water run-off (5)	Likely	Moderate	Moderate	become impacted by contamination during the construction works, particularly in the area where excavation is undertaken (new drains and piling). Made Ground comprising ash and slag used to make up the existing access roads will require removal to facilitate construction. The materials may be appropriate for re-use within the Scheme subject to meeting suitability for re-use criteria. Perched groundwater is likely to have very low flow and may be absent seasonally. Perched water within the Made Ground has elevated metals and organics, albeit in an area not to be affected by the Scheme. Application of appropriate surface water run-off control measures will be required.
	Deep groundwater within Mercia Mudstone(Da)	Vertical migration (4)	Low likelihood	Moderate	Moderate to low	Displacement of potentially impacted made ground possible during piling, however this is subject to selected piling technique. Furthermore, Made Ground comprising ash and slag used to make up the existing access roads will require removal to facilitate construction. The materials may be appropriate for reuse within the Scheme subject to meeting suitability for re-use criteria. A thick mantle of predominantly very low permeability Tidal Flat Deposits overlie the Mercia Mudstone aquifer,

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
						reducing risk of downward migration. Groundwater (aquifer) quality identified to be impacted by metal and inorganic contaminants of concern and of same quality as the Tidal Flat Deposit perched groundwater. Groundwater characterised with saline intrusion. Perched groundwater in Made Ground has been impacted with hydrocarbons in CH52A. This is anticipated to be discrete feature rather than widespread across the Site and is also not going to be affected by the Scheme. A piling risk assessment will be required to mitigate risks from piling and band drain installation to controlled waters. Gap in the data has been identified and further investigations are required to delineate any potential contamination and confirm the risks.
Groundwater – Aquifer from the Glaciofluvial Deposits and/or Mercia Mudstone	Surface water (land drainage) (E)	Piles and band drains (4)	Unlikely	High	Moderate to Low	Groundwater (aquifer) is saline. The hydrostatic pressure of the aquifer is likely to be near base of Made Ground and band drains and piles could create potential vertical pathways connecting aquifer with surface water. Controls and a piling risk assessment are required to mitigate the risks.
	Construction Workers (B)	Inhalation of soil gas / explosion (2)	Low likelihood	High	Moderate	High methane concentrations associated with peat / organic clays but with low or absent flux. Gas flux likely to increase during surcharge loading.
Peat and organic soils	Off site users during construction works (C)	Inhalation of soil gas/ explosion (2)	Unlikely	High	Moderate to low	New pathways to be created with band drain. Construction to be largely within open space. Any earthworks within confined space would require specific risk assessment, control measures and PPE. Gas control measures would be needed during piling and band drain installation. Risks to offsite general public during construction considered very low as no enclosed spaces or buildings within public access and low permeability of Tidal Flat Deposits will inhibit migration. Gap in the data has been identified and further investigations are required to assess any potential gas and confirm the risks.

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
						Piling and band drain installations could result in explosive risks during operations and risk assessment and gas mitigation measures will be needed.
	Operational		•		•	
		Direct dermal (1)	Low likelihood	Low	Very low	Made Ground to be largely encapsulated by the
		Ingestion (3)	Low likelihood	Low	Very low	embankment or removed and therefore the exposure to
		Inhalation of soil dust (2)	Low likelihood	Low	Very low	contamination will be limited outside the motorway embankment along existing tracks albeit outside the
On Site Metals, inorganic and organic contaminants associated with slag and industrial rubble from the nearby steel works. Sludge and industrial waste within the Green Moor Land Landfill. Ground gas Off site Llanwern Lagoon26 (CL-26); Llanwern Works East Landfill; Llanwern steelworks main operation	Maintenance Workers (B)	Inhalation of soil gas or vapours (2)	Low likelihood	Low	Very low	permanent land take. Areas outside the motorway hardstanding will receive topsoil and / or subsoil cover for planting further reducing pathways. Exposure duration will be short term only. Site specific risk assessment will be required in line with health and safety legislation. This will enable safe methodology and appropriate level of PPE to be put in place. As such all risks will be duly considered and suitably mitigated for instance during future excavations required during maintenance. Current data set identifies limited exceedances above the selected generic screening criteria. Existing contamination levels are not foreseen to represent abnormal constraints to maintenance workers' health and safety over and above those typical of a brown field site redevelopment. Surcharge of superficial soils may temporary increase gas flux. Maintenance works to be largely within open space. Any works within confined space would require specific risk assessment, control measures and PPE to meet legislative requirements. Gap in the data has been identified and further investigations are required to delineate any potential contamination and confirm the risks associated with potential waste deposition in the three areas at Green Moor Lane Landfill.

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
		Dermal contact with soil dust (1)	Unlikely	Low	Very low	Potential contamination sources in soil are limited to the existing roadways constructed from ash and slag and the
		Ingestion of soil dust (3)	Unlikely	Low	Very low	Made Ground is to be largely encapsulated by the embankment. Exposure duration will be short term only for
		Inhalation of soil dust (2)	Unlikely	Low	Very low	Motorway users. The human health screening criteria is considered conservative when considering exposure and pathway
	Future Motorway users (A) and other off site users (C)	Inhalation of soil gas or vapours (2)	Unlikely	Low	Very low	mechanisms to future Site users. Limited potential for lateral gas migration given the presence of low permeability Tidal Flat Deposits to shallow depth. Off-site receptors adjacent to proposed earthworks at the link road but some 450 m from the main motorway section and this is not considered at risk. Gap in the data has been identified and further investigations are required to delineate any potential contamination and confirm the risks associated with potential waste deposition in the three areas at Green Moor Lane Landfill.
	Deep groundwater within Mercia Mudstone(Da)	Vertical migration (4)	Low likelihood	Moderate	Moderate to Low	Leaching of contaminants from the Made Ground materials used to construct existing roadways could migrate via piling and band drains; however the Made Ground comprising ash and slag will require removal to facilitate construction. The materials may be appropriate for reuse within the Scheme subject to meeting suitability for reuse criteria. Thick mantle of predominantly very low permeability Tidal Flat Deposits overlying aquifer, reducing risk of downward migration. Groundwater (aquifer) quality already identified to be impacted by metal and inorganic contaminants of same quality than the perched groundwater. Groundwater characterized with saline intrusion. Water in Made Ground impacted with hydrocarbons (CH52A). This is anticipated to be discrete feature rather than widespread across the Site and is also not going to be affected by the Scheme.

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
						Piling risk assessment will be required to mitigate risks from piling and band drain installation to controlled waters. Gap in the data has been identified and further investigations are required to delineate any potential contamination and confirm the risks associated with potential waste deposition in the three areas at Green Moor Lane Landfill.
	Surface water (land drainage) (E)	Leaching / migration of contaminants to surface waters (4)	Likely	Moderate	Moderate	Leachable organics and inorganics identified within the Made Ground. Made Ground comprising ash and slag used to make up the existing access roads will require removal to facilitate construction. The materials may be appropriate for reuse within the Scheme subject to meeting suitability for re-use criteria. Perched groundwater is likely to have very low flow and may be absent seasonally. Perched water within the Made Ground has elevated metals and organics, albeit in an area not to be affected by the Scheme. Application of appropriate surface water run-off control measures will be required.
Groundwater – Aquifer from the Glaciofluvial Deposits and/or Mercia Mudstone	Surface water (land drainage) (E)	Piles (4)	Likely	High	High	Groundwater (aquifer) is saline. The hydrostatic pressure of the aquifer is near base of Made Ground and band drains and piles could create potential vertical pathways connecting aquifer with surface water. Controls and a piling risk assessment are required to mitigate these risks.
Peat and organic soils	Maintenance Workers (B)	Inhalation of soil gas / explosion (2)	Unlikely	High	Moderate to Low	Although elevated methane concentrations are known within the natural soils of the Tidal Flat Deposits, the low permeability soils will result in limited gas generation post construction. Risks to maintenance workers low but entry into any confined spaces will need to adhere to health and safety legislation requirements. Pathways along piles likely to "heal" with increase in soil contact along pile shaft preventing gas migration. However

I	Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
							band drains could still allow localised gas migration. Gap in the data has been identified and further investigations are required to assess any potential gas and confirm the risks.
		Future motorway users (A) and off-site users (C)	Inhalation of soil gas / explosion (2)	Unlikely	High	Moderate to Low	Ground gas data from the peat horizons within the superficial deposits identify concentrations of methane, carbon dioxide and trace VOCs. New pathways to be created with piles and band drains. Limited potential for lateral gas migration given the presence of low permeability Tidal Flat Deposits to shallow depth. Motorway to be built on raised embankment providing a further barrier to migration gases. Pathways along piles likely to "heal" with increase in soil contact along pile shaft preventing gas migration. However band drains could still allow localised gas migration. Gap in the data has been identified and further investigations are required to assess any potential gas and confirm the risks.

10 Conclusions and Recommendations

10.1 Conclusions

- 10.1.1 Ground investigations have been undertaken at the Site to assess risks from land contamination associated with the construction and operation of the Scheme including human health and controlled waters risks.
- 10.1.2 Widespread gross contamination associated with the Site's historical use has not been identified. The risk assessment has identified that some residual risks to human health and controlled waters could exist and control measures are required to facilitate the construction and ongoing operation of the Scheme.
- 10.1.3 The laboratory testing results from previous ground investigations confirm the on site observations and field testing, and indicate that the materials encountered within the Site are at tolerable levels of risk to human health both during construction and operational phases. Materials are also likely to be suitable for reuse subject to provision of reuse criteria under a Material Management Plan.
- 10.1.4 Contaminated materials appear to be confined to existing tracks that cross the Site that have been constructed from slag and ash materials. There are three areas of suspected tipping that have not been intrusively investigated that require additional assessment.
- **10.1.5** During the construction phase, specific mitigation measures will be required to prevent inhalation pathways of dust to off site and work force receptors, although such measures would be no more than typically expected on a construction site.
- 10.1.6 Impacted perched groundwaters likely to be in continuity with land drainage will require suitable water management strategy to prevent potential impact to surface waters from contaminant run-offs.
- During the operational phase, the embankment will cover part of the Site which will significantly limit the infiltration of rainwater through the soils and potentially leaching any soil contaminants into the groundwater. However, perched groundwater may be within the Made Ground materials and could remain beneath the embankment.
- 10.1.8 Surface waters at the boundary of the Site are generally of good quality with limited evidence of impact on quality that can be be associated with the Site. The surface water quality appears similar to that seen elsewhere across the Gwent Levels.
- 10.1.9 Adoption of band drain and piles may provide new pathways which may lead to groundwater within the Tidal Flat Deposits and possibly any water bodies within the Made Ground to enter the currently confined aquifer within the Glaciofluvial Deposits and Mercia Mudstone.
- 10.1.10 The deep aquifer is identified to be impacted with metals, organic and inorganic contaminants which may reduce surface water quality if the band drain pathways allow direct or indirect linkage. Further consideration and a piling risk assessment will be undertaken to mitigate the potential impact of the band drains to allow specific mitigation measures to be implemented.

10.1.11 Post construction, the embankment itself and topsoil and subsoil cover along the motorway corridor will break potential human health pathways to end-users and maintenance workers. However, topsoil materials placed at the surface will need to be checked for contamination.

10.2 Recommendations

- 10.2.1 Given the identified gap in the data, in particular associated with potentially contaminated land use (landfills and steelworks) an additional ground investigation works is required to verify risk levels described in this report. Upon completion this report shall be reviewed and updated accordingly once the findings of the additional investigation are made available. The additional investigation will include the following:
 - Trial pits and boreholes to collect soil samples including targeting the three suspected areas of tipping.
 - Installation of groundwater monitoring wells to collect groundwater samples and gas monitoring.
- Upon review and assessment of the additional ground investigation information, any contamination identified that could cause an unacceptable risk to the identified receptors will require appropriate remedial mitigation measures to be implemented. These measures would be identified within a remedial strategy for the Scheme. The remediation strategy is anticipated to include but is not limited to the below:
 - Addressing uncertain human health risk and controlled waters risk identified by the proposed additional ground investigation.
 - Risk assessment of piles / band drains and associated construction works creating pathways enabling contaminants migration.
 - Dealing with unexpected contamination.
 - Verification sampling strategy to confirm suitability for soils for retention / reuse.
 - Control measures to prevent risks to construction workers and the general public during construction.
 - Verification of imported topsoils for suitability of use.
- 10.2.3 The remediation strategy should include a remediation options appraisal, remediation implementation plan and remediation verification plan. The remediation strategy should be supported by a Scheme wide Material Management Plan prepared in accordance with CL:AIRE Code of Practice (CL:AIRE, 2011).

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12 Glossary

BF Blast Furnace

BGS British Geological Survey

BOD Biochemical Oxygen Demand

BOS Basic Oxygen Slag

BTEX Benzene, Toluene, Ethylbenzene and Xylene

CAT Cable Avoidance Tool

CDM Construction Design Management

CH₄ Methane

CLEA Contaminated Land Exposure Assessment

CO₂ Carbon Dioxide

CO Carbon Monoxide

COD Chemical Oxygen Demand

CSM Conceptual Site Model

DMRB Design Manual for Roads and Bridges

DO Dissolved Oxygen

DQRA Detailed Quantitative Risk Assessment

DWS Drinking Water Standard

EC Electrical Conductivity

EIA Environmental Impact Assessment

ES Environmental Statement

ESG Environmental Scientifics Group

EQS Environmental Quality Standard

FTIR Fourier Transform Infrared (spectroscopy)

GAC Generic Assessment Criteria

GDR Geotechnical Design Report

GIR Ground Investigation Report

GRO Gasoline Range Organics

LEL Lower Explosive Limit

LOD Limit of Detection

mAOD Metres Above Ordnance Datum

mb Millibars

mbGL Metres below Ground Level

MTBE Methyl Tert-butyl Ether

NRW Natural Resources Wales

ORP Oxidation Reduction Potential

O₂ Oxygen

OS Ordnance Survey

PAH Polycyclic Aromatic Hydrocarbon

PCB Polychlorinated Biphenyl

PCSM Preliminary Conceptual Site Model

PID Photo Ionisation Detector

PPE Personnel Protection Equipment

SGVs Soil Guideline Values

SSAC Site Specific Assessment Criteria

SSSI Site of Special Scientific Interest

SVOCs Semi-Volatile Organic Compounds

TOC Total Organic Carbon

TPH Total Petroleum Hydrocarbon

TPH CWG Total Petroleum Hydrocarbon Criteria Working Group

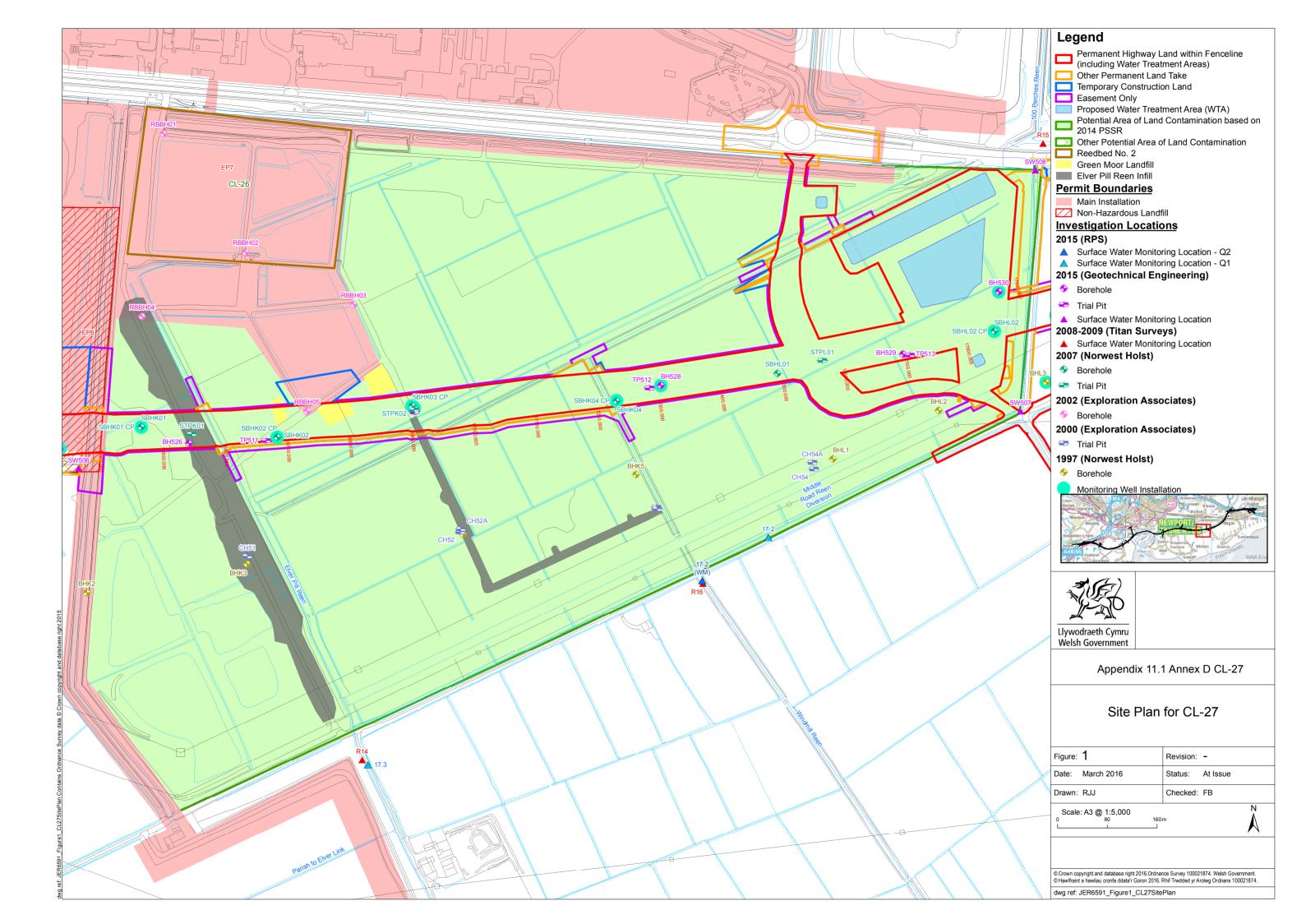
UKAS United Kingdom Accreditation Service

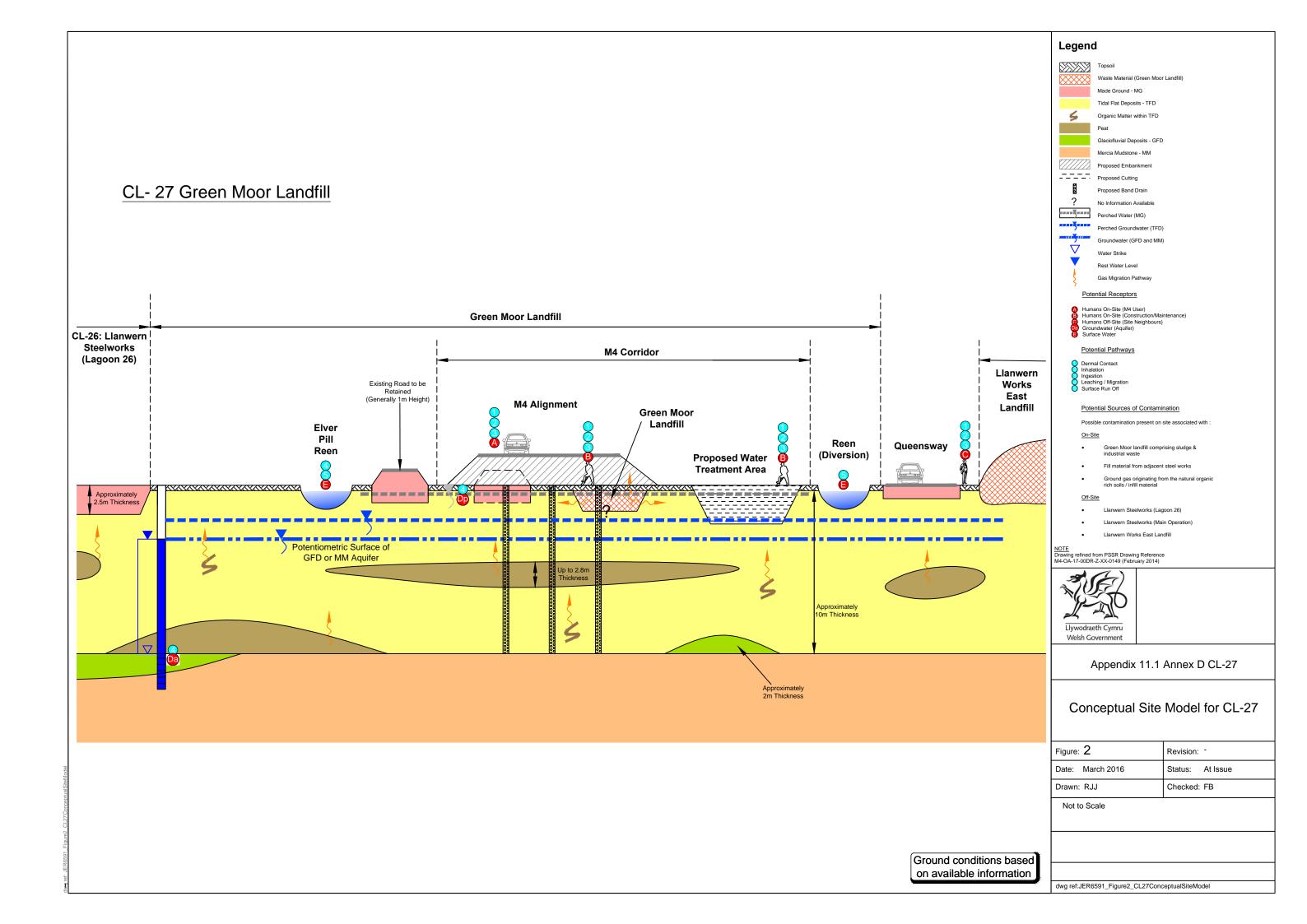
VOCs Volatile Organic Compounds

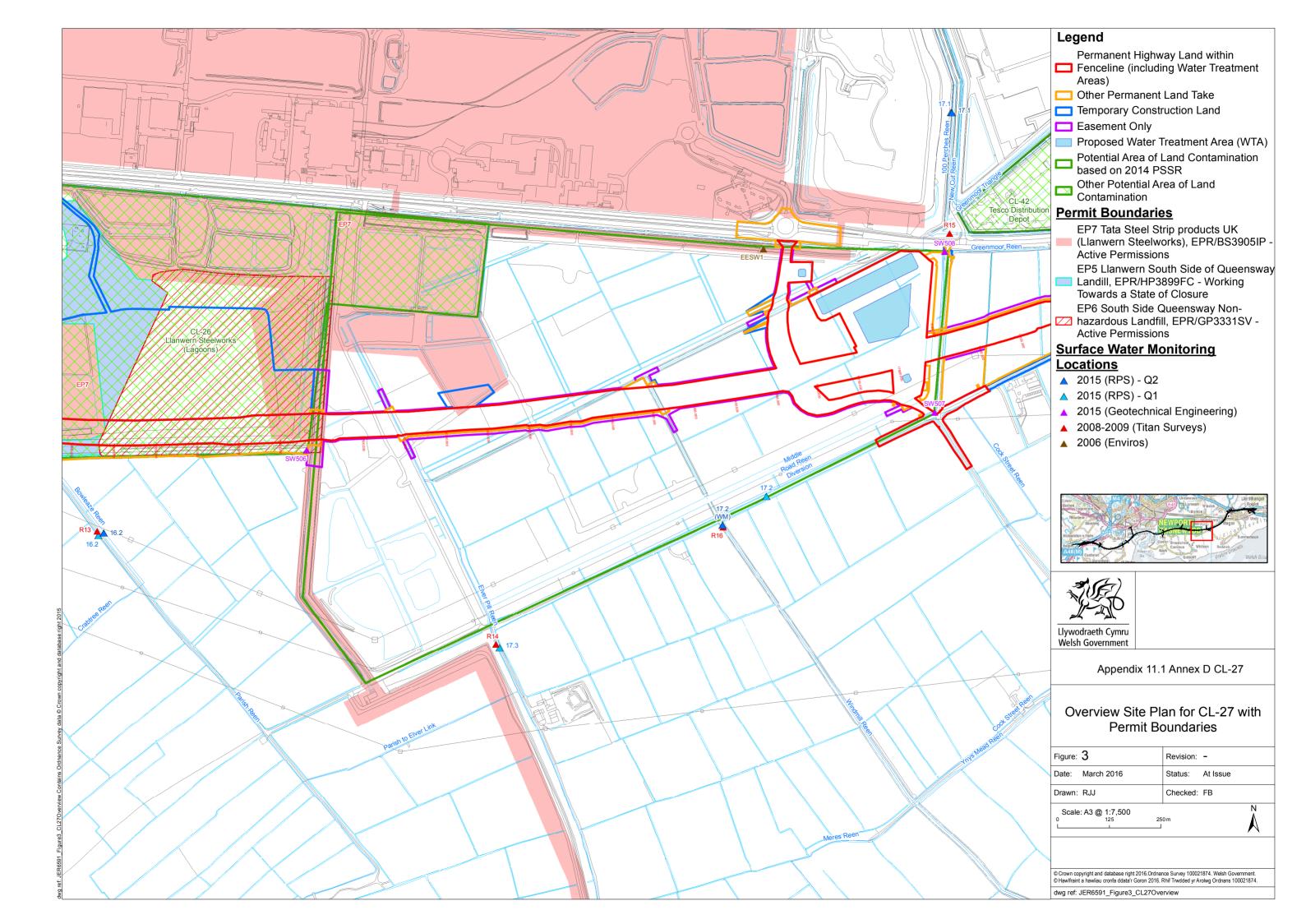
WFD Water Framework Directive

UXO Unexploded Ordnance Survey

Figures







Appendices

A1 Appendix 1

Exploratory Records



Borehole No.

BHK2

Contract No.

F10895

M4 Relief Road Magor to

Method

Cable Percussion

A.M

T.R

Coordinates

338344.8 E

Castleton Stage 2

Drilling Rig

Logged by

Pilcon

Ground Level

185347.3 N 7.30m AOD

Client

Project

Welsh Office

Driller

Orientation

Vertical 16/10/1997

Consultant

Ove Arup and Partners

Date Started Date Completed

16/10/1997

		Ι	PROGRESS				DRI	LLING DETA	JILS
Date	Time	Hole depth	Casing depth	Water depth	Remarks	Hardbore from depth	Hardbore to depth	Chiselling hours	Remarks
16/10/1997	1800	11.25	8.60	6.80		10.80	11.25	1.00	
			•						

				r										
	CAS	ING			WATER STRIKES									
Hole diameter	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow			
150	11.25	150	8.00	16/10/1997 16/10/1997	1500 1700	6.80 10.75	6.80 9.50	20.0	seepage fast	5.85 8.00	5.85 0.00			

GENERAL NOTES			SPT DETAILS
Borehole complete at 11.25m, grouted to ground level.	Depth	Туре	Incremental blow count/penetration in mm
	2.00 4.00 8.15 9.15 10.55 11.10	\$ \$ \$	N=7 (1,1,1,2,2,2) N=3 (0,1,1,0,1,1) N=20 (3,4,5,4,5,6) N=42 (4,7,8,10,10,14) 37/150mm 80/150mm*
			* Seating blows only.

NB All depths in metres, all diameters in millimetres, water strike rise time in minutes, chiselling time in hours. Form CP HEADER Version 2.00 Revised 25/06/1997



Borehole No.

BHK2

Sheet 1 of 2

Contract No.

Project

Client

Consultant

F10895

M4 Relief Road Magor to

Ove Arup and Partners

Castleton Stage 2

Welsh Office

Method

Driller

Drilling Rig

Cable Percussion

Pilcon A.M

Logged by T.R

Coordinates

338344.8 E

185347.3 N

7.30m AOD

Vertical

Orientation
Date Started

Ground Level

16/10/1997

Date Completed

16/10/1997

Description of Strata	Legend	Depth Below G.L.	O.D. Level	8	Samplin	ıg	SPT N & (U blows)		PT typ	
TOPSOIL		0.30	7.00	В	0.30 -	0.90	•			
Soft brown mottled grey CLAY with occasional partings of			_				-			
light brown fine sand and rootlets. (Estuarine Alluvium)			-	D	0.05		•			
			-	บั	0.95 1.00	1,45	(7)			13
			<u>-</u> -	D	1.45		• - •			
			-				-			-[- <u>-</u> -
			_	D	2.00			s	2.00	12
			_	_						2.45
			-	В	2.45 -	3.00	- -			
			_			ļ	-			75
		3.00	4.30	D	3.05	3.55	- - - (6)			
Very soft blue grey slightly organic CLAY. (Estuarine Alluvium)			_	U	3.05 3.10	3.33	- (0)			
Anuvium			- -	D	3.55	ļ	- -			
		}				ļ	- - -			1-1
			_	D	4.00			S	4.00	1.23
			<u>-</u> -	В	4.45 -	5.00	-			
		1	_		4.43	3.00	- - -			1
		1	<u>.</u>				- -			
]	<u> -</u>	D U	5.10 5.15	5.60				
]	F			-	-			33
	=====		-	D	5.60		- - -			
	الد عالد عالد	5.90	1.40	B	5.90 - 6.00 -	6,00 6,45				<u>-</u>
Firm dark brownish black fibrous PEAT. (Peat)	n silka silka nilka silka silka n silka silka		F				- -			7-
	مالاه مالاه مالاه مالاه مالاه مالاه	6.45	0.85	D	6.45		- -]=
Very soft to soft dark grey sandy organic CLAY with occasional gravel size pockets of dark brown sandy clayey			_				<u>-</u> - -			
peat. (Estuarine Alluvium)			Ė	_			<u>-</u> -			-
			-	D			<u>-</u>			15
			_	U	7.50 -	7.95	(10)			
			_	D	7.95		- -			1
		8.10	-0.80	1	8.15			s	8.15	
Bluish green grey completely weathered MUDSTONE, very weak.(Mercia Mudstone Group)			-				<u>-</u> -			8,60 <u>1</u>
~			-	В	8.60	- 9.10	- -			
			<u> </u>				<u>-</u>			
at 9.05m reddish brown mottled greyish			-	D	9.15	- 9.60	_ \$42	S	9.15	 9.60
green highly weathered very weak to weak			E	D	9.60	. 1075	<u>-</u>			亳
			-	•	2.00	- 10./3	<u>-</u>			丰

NB All depths in metres, all diameters in millimetres.

See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols. Form NH CP LOG

Version 2.00

Revised 19/12/1996



Borehole No.

BHK2

Sheet 2 of 2

Contract No.

Project

Client

F10895

M4 Relief Road Magor to

Castleton Stage 2

Welsh Office

Drilling Rig Driller

Method

Logged by

Cable Percussion

Pilcon

A.M T.R

Coordinates

338344.8 E

185347.3 N 7.30m AOD

Ground Level Orientation

Vertical

Date Started

16/10/1997

		D 2	· · · · ·	I			
Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling	SPT N & (U blows)	SPT type & depth	
Bluish green grey completely weathered MUDSTONE, very weak.(Mercia Mudstone Group)				D 10.55	- - - - S37/150mm	S 10.55 10.85	-
at 10.80m reddish brown moderately to highly weathered weak		11.25	-3.95		S80/150mm*	S 11.10 11.25	
Cable Percussion boring complete at 11.25 m.			-		Ē		1
				:	-		1
		:	-		-		-
			-		- - -		-
			-		-		1 1 1
			-		<u>-</u> -		1 1 1
			- - -		<u>-</u>		-
			Ē		-		-
					<u>.</u>		
			E		ŧ		-
			<u> -</u> 		- - -		-
			-		- - -		-
			<u>-</u>				-
			<u> </u>		- - -		-
			Ė		<u>-</u>		-
			F		-		-
			- - -				-
							-
			<u> -</u>		<u> -</u>		-

NB All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

NH CP LOG Version 19/12/1996



Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Borehole No. BHK3

Contract No.

F10895

M4 Relief Road Magor to

Castleton Stage 2

Method

Cable Percussion

Coordinates

338602.4 E 185393.9 N

NB All depths in metres, all diameters in millimetres,

water strike rise time in minutes, chiselling time in hours.

Drilling Rig Driller Logged by

Pilcon

Ground Level

6.00m AOD

Client

Project

Welsh Office

A.M M.B

Orientation Date Started

Vertical 17/10/1997

Consultant Ove Arup and Partners Date Completed

17/10/1997

Form

CP HEADER

		I	PROGRESS			DRILLING DETAILS						
Date	Time	Hole depth	Casing depth	Water depth	Remarks	Hardbore from depth	Hardbore to depth	Chiselling hours	Remarks			
17/10/1997	1800	11.20	9.50	7.10		0.70	0.95	0.25				
						1.45	1.75	0.25				
						10.85	11.20	1.00				
		•										

	CAS	ING					WATER	STRIKES			
Hole diameter	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
150	11.20	150	9,50	17/10/1997	0000	10.80	7,10	15.0	fast	9.50	0.00
				-							
						į					

GENERAL NOTES				SPT DETAILS
 Borehole complete at 11.20m. Backfilled with grout from 11.20m. 		Depth	Туре	Incremental blow count/penetration in mm
		1.00	С	N=43 (4,5,7,10,10,16)
		1.80 4.00	S	N=6 (2,2,1,2,2,1) N=2 (1,0,1,0,1,0)
		6.80 10.20	S	N=13 (1,1,3,3,4,3)
·		11.05	S	N=81 (8,8,12,16,22,31) 80/150mm*
		!		
				* 0 - 4 - 11
				* Seating blows only.



Borehole No.

BHK3
Sheet 1 of 2

Contract No.

Project

Client

F10895

M4 Relief Road Magor to

Castleton Stage 2

Welsh Office

Method Drilling Rig

Driller

Logged by

Cable Percussion

Pilcon

A.M M.B Coordinates

338602.4 E

185393.9 N

Ground Level
Orientation

6.00m AOD Vertical

Date Started

17/10/1997

Consultant

Ove Arup and Partners

Date Completed

npleted 17/10/1997

Description of Strata	Legend	Depth Below	O.D.	8	ampl	ing	SPT N &		SPTt	_	Ins
		G.L.	Level		_	-	(U blows)	L	& dej	oth	at
MADE GROUND: Reddish brown sandy gravelly clay with				В	0.00	- 0,95	_				-:-
some gravel sized black clayey ash sand and occasional			_			-	_				
cobbles and boulders.			Ē			ļ	<u>-</u>			-	
							_				
		0.95	5.05	_	l		_				-[
MADE GROUND: Reddish brown very sandy clay with mu		0.50		В	1.00	- 1.80	C43	C	1.00		7
angular to sub-angular siliceous clinker and occasional	cn 💥 💥		_				_			1.45	<u> </u>
cobbles and boulders.			_				-				<u> </u> :-:
condics and boulders.	****						_			-	
		1.80	4.20	D	1.80	- 2.25	- S6	s	1.80] -
Soft becoming very soft brown mottled grey slightly sandy			-							2.25]-
CLAY locally very silty. (Estuarine Alluvium)			_				_			-	₫=:
ODITI IOURIS FOLS SHOT, (DSUMINO PHINTING)			<u> </u>				-				
at 1.80m very silty			F		}		-]-
			F				-			-	1=
			E				-				<u> </u>
			-				Ē				7-1-
			F				-			_	1
		1	L				_				<u>}</u> :-:
			}				-				43
			F				_			_	Ţ- <u>-</u> -
		Í	-	İ			-				Į
		1	_	D	4.00		_ S2	S	4.00	_	<u> </u>
						1	-			4.45	-
			F				-				1-1
				В	4.50	- 5.00	_			_	<u>-</u> [-
		1	<u> </u>				_				-[=
			F				-				Ţ- <u>-</u> -
			-				-			_	1=
			_	n	£ 20						<u> </u>
			F	D B	5.30 5.40	- 5.90	(4)				-[-
			_	Ū		- 5.85				-]-:
			-				_				1.
			_	D	5.95	- 645	(11)				<u>-</u> -
at 5.95m becoming grey mottled black				U	6.00	- 6.45	(11)			-	
slightly organic clay		1	F				Ē				-
	شده ریشه ریشه مراهای است مراهای است	6.45	-0.45	D	6.45						<u> </u>
at 6.00m very silty	الله عالم عالم الله الله الله عالم عالم الله الله الله الله الله الله الله ا	1	-				-			-	-[-
	stro stro stro		F	D	6.80		S13	s	6.80		7-3
Spongy dark brown slightly sandy clayey fibrous PEAT.	12 19 19 19 19 19 19 19 19 19 19 19 19 19		-	-				~		7.25	#=
(Peat)	ية بقالات غالان مثلاد جنالة جنالة		_				_		1	-	
	athe atte						-				7-
	2 3016 3016	7.40	-1.40				_	1			
Soft dark grey slightly sandy CLAY. (Estuarine Alluvium)			-				_			-	╁-
		4		D	7.80		-				
			F		1			1			1
			_	U	8.10	- 8.55	(11)			-	1
		1	ļ.				<u> </u>		1		1-
•			F	D	8.55		-		1		-[
		7	F	D	8.70		F		1	•	7-
at 8.70m becoming grey mottled black		1		Ū	8.75	- 9.20	ļ.		1		1-
slightly organic clay	مرات منوان توسیق مرات این	1	L				_				_[_
		9.25	-3.25	D	9.20		F		1	-	7-
Y11, (4.114 1.1 4.14.4.4.4.4.4.4.4.4.4.4.4.4.4		7.23	-5.23		9,40	- 9.80	(48)				1-
Light grey mottled blue completely weathered slightly			L	ľ	1,70	3.00	(46)				
sandy MUDSTONE, very weak. (Mercia Mudstone Group)			-				H				-[-
•			_	D	9.80		F		1		1=
		7	L-	1	1		L	1	1		- I

NB All depths in metres, all diameters in millimetres.

See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

 Form
 NH CP LOG

 Version
 2.00

 Revised
 19/12/1996



Borehole No.

BHK3 Sheet 2 of 2

Contract No.

Consultant

F10895

M4 Relief Road Magor to

Castleton Stage 2

Method

Cable Percussion

Coordinates

338602.4 E

Project Client

Welsh Office

Drilling Rig Driller Logged by

Pilcon A.M M.B

Ground Level Orientation 185393.9 N 6.00m AOD

Vertical

Ove Arup and Partners

Date Started

17/10/1997 17/10/1997

Date Completed 17/1

Description of Strata	Legend	Depth Below G.L.	O.D. Level	í	Sampling	SPT N & (U blows)		SPT type & depth	Install- ation
Light grey mottled blue completely weathered slightly sandy MUDSTONE, very weak. (Mercia Mudstone Group)			-	B D	10.20 - 10.80 10.20 - 10.65	S81	S	10.20 10.65	
Reddish brown highly weathered silty MUDSTONE, weak to very weak. (Mercia Mudstone Group)		10.80 11.20		w D	10.80	S80/150mm*	S	11.05 – 11.20	
Cable Percussion boring complete at 11.20 m.						- 		-	
						-		<u>-</u>	
			- - -			-		-	
			- - - -			- - -		-	
			- - - -			 		-	
			- - - -			- - - -		-	
			- - -			1.a 			- - - -
								_	-
			- - - -			- - -			
			<u>-</u> - -			-		-	
			- - - -			<u>-</u> -			
								-	
			_ - - -			- - - -			-
			_ [_					-	
			-			- - - -			
						- - - - - - - - -		-	T - 1
			- - - -			- - - -			- - - -

NB All depths in metres, all diameters in millimetres.

See header sheet for details of drilling, progress and water

See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.
 Form
 NH CP LOG

 Version
 2.00

 Revised
 19/12/1996



Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Borehole No.

BHK4
Header

Contract No.

F10895

M4 Relief Road Magor to

Castleton Stage 2

on stage 2

Method

Cable Percussion

Coordinates

338949.9 E

185441.6 N

Client

Project

Welsh Office

Drilling Rig Driller

Logged by

Pilcon I.M T.R Ground Level

5.50m AOD Vertical

Consultant

Ove Arup and Partners

Orientation Date Started

Vertical 16/10/1997

Date Completed

17/10/1997

		F	ROGRESS				DRILLING DETAILS							
Date	Time	Hole depth	Casing depth	Water depth	Remarks	Hardbore from depth	Hardbore to depth	Chiselling hours	Remarks					
16/10/1997	1800	10.00	10.00	Dry		1.25	1.50	1.00						
17/10/1997	0800	10.00	10.00	8.20		10.80	11.05	1.00						
17/10/1997	1000	11.05	10.80	8.20										
							.							

	CAS	ING					WATER	STRIKES			
Hole diameter	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Tîme	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
150	11.05	150	10.80	16/10/1997	0000	1.10	1.00	15.0	slight	1.00	3.00
]			

						ana n		1	1
 GENERA	LNOTES	 			1		ETAILS		
			Depth	Туре	Incremental	blow count/pene	tration in mm		
			1.00	С	67/115mm (1	0,11,17,50)			
			2.00 3.50	C S	N=18 (6,7,7,8 N=3 (1,0,1,0,	3,2,1) 1.1)			
			6.00	S	N=7 (1,2,2,1,	3,1)			
			9.40 10.50	S S	N=30 (4,6,7,7 80/150mm (1	7,8,8) 4,19,30,50)			
			11.05	s	50/20mm*	•			
					* Seating	blows only.			

NB All depths in metres, all diameters in millimetres, water strike rise time in minutes, chiselling time in hours.

Form	CP HEADER
Version	2.00
Revised	25/06/1997



Borehole No.

BHK4

Sheet 1 of 2

Contract No. Project F10895

Welsh Office

M4 Relief Road Magor to Castleton Stage 2

or to Drilling Rig Driller

Method

Logged by

Cable Percussion

Pilcon

I.M T.R Coordinates

338949.9 E 185441.6 N

Ground Level Orientation 5.50m AOD Vertical

Date Started Date Completed 16/10/1997 17/10/1997

Consultant

Client

Ove Arup and Partners

Description of Strata	Legend	Depth Below G.L.	O.D. Level		ampling	SPT N & (U blows)		PT type & depth	Inst ati
MADE GROUND: Dark brown black sandy fine to coarse		·	-	В	0.00 - 0.50	- -			‡
angular to subangualr ash, clinker and silicious gravel.			-			-			7
			-			E		-	}
			-	_	1.00	000015	اءا	1.00]
			_	D W	1.00 1.00	C67/115mm		1.00	Ⅎ
]	-			 - -			1
			- :			<u>-</u>		-	1
			-			E			3
				D	2.00	C18	c	2,00	1
		2.30	3.20			-		2.45	╡
MADE GROUND: Very soft to soft greyish blue silty slightly		2.50	- 3.20	a	2.50	<u>-</u>			‡
organic clay with occasional gravel size pockets of black		3	-	Ũ	2.60 - 3.05	(6)		-	7
fine to coarse ash sand and fine to coarse subangular to						Ē			3
subrounded clinker and silicious gravel.		2 20	2.30	D	3.05	F		-]
TO AUGUST AND CONTRACTOR OF ANY	<u> </u>	3.20	2.30	D	3.30	ţ			-
Very soft light greyish blue slightly organic CLAY. (Estuarine Alluvium)	E===	1	_	D	3.50	<u>-</u> 83	s	3.50	1
(====	1	-			F		3.95	7
]	F	В	4.00 - 4.50	_		_	3
		}	<u> </u>			E		_	3
		1	È	 ,,	4.50 - 4.95	(8)			1
	2) Kir 23 Kir 23 Kir	4.60	0.90	"	4.50 - 4.55	- (6)			7
Spongy dark brownish black fibrous PEAT.	مادي بهد به د بنائد بهاد مادد بهاد بهاد	}	-	D	4.05	-			-
(Peat)	نے بغاش بناش بنائم بنائر بنائر		F		4.95	-		-	7
	نه بنالتو مناش منافع بنافه بنافة	4	E			E]
	ت بداین ماین ماین بناین ماین	1	_	D	5.50	E			
from 5.50m with occasional gravel to cobble	د بالاد بالاد بالاد بالاد بالاد بالد بالا	1	-			-			-
size pockets of light grey very organic clay	نه بمالاد بمالاد مالاد مالاد مالا م بمالاد مالاد	1	-	D	6.00	- S7	s	6.00	‡
from 6.00m becoming spongy to firm	مثالات مثالات مثالا بي مثالاتي مثالا		F			E		6.45	3
	مادي يمادي يماد د جادي يادي	4	[_	6.60 7.00	E]
	بادر بادر بادر د بنادر بنادر	4	F	В	6.50 - 7.00	' -			
	عالای عالای عال به بناقی بناقم بناقی بناقی بنا	4	ļ-			 			-
	بالدر ينادر بالدر ينادر بالدر ينادر يناد	1	F			F		-	
	د مثاقد مثاقد مثالاد مثالاد مثا	j	1 00	_	2.40	-			1
V	بالاد بالاد	7.40	-1.90	ט	7.40	s [(3)			1
Very soft to soft light greyish blue organic CLAY. (Estuarine Alluvium)		1	<u> </u>			ļ.			‡
· ·	====	3	-	D	7.95	-			7
from 7.95 to 8.50m very organic		=	_			E			3
		Ħ	E	_	. 50	-			1
		3	-	מ	8.50	F			-
		3	-			-		}	1
		9.10	-3.60	D	9.10				_
Blue greenish grey completely weathered silty MUDSTONE,			-			-	_		1
very weak. (Mercia Mudstone)			E	D	9.40	S30	S	9.40 9.85]
			F			-			-

NB All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form NH CP LOG

Version 2.00

Revised 19/12/1996



Borehole No.

BHK4
Sheet 2 of 2

Contract No Project

Consultant

Client

F10895

M4 Relief Road Magor to

Castleton Stage 2

Welsh Office

Ove Arup and Partners

Method

Cable Percussion

I.M

T.R

Drilling Rig Pilcon

Driller Logged by ible Percussion

Coordinates

338949.9 E

Ground Level

185441.6 N 5.50m AOD

Orientation
Date Started

Vertical

Date Completed

16/10/1997 17/10/1997

	3.3.1.4.5 tild X distrib				 Date Compl	leted 17/10	0/19	197	
	Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling	SPT N & (U blows)		SPT type & depth	Install
	Blue greenish grey completely weathered silty MUDSTONE, very weak. (Mercia Mudstone)		10.00		10.00 - 10.50 10.50	S80/150mm		10.50	
	Red brown mottled grey green highly to completely weathered silty MUDSTONE very weak to weak. (Mercia Mudstone Group)		l i	-5.30 5.55	11.05	S50/20mm*		10.80	
//	Brown highly weathered silty MUDSTONE, weak. (Mercia Mudstone Group)			-	11.05	- 530/2011lik	٦	11.05	
\ 	Cable Percussion boring complete at 11.05 m.			-		- - - - -	İ	- - -	
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NB All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

 Form
 NH CP LOG

 Version
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Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Borehole No.

BHK5 Header

Contract No.

F10895

M4 Relief Road Magor to

Castleton Stage 2

Method

Cable Percussion

Coordinates

 $339228.1 \to$

Welsh Office

Drilling Rig

Pilcon

Ground Level

185536.9 N 5.20m AOD

Client

Project

Driller Logged by I.M T.R

Orientation Date Started Vertical 17/10/1997

Consultant

Ove Arup and Partners

Date Completed

17/10/1997

		I	PROGRESS	DRILLING DETAILS					
Date	Time	Hole depth	Casing depth	Water depth	Remarks	Hardbore from depth	Hardbore to depth	Chiselling hours	Remarks
17/10/1997	1800	11.55	11,30	Dry		11.30	11.55	1.00	
								-	

	CAS	ING		WATER STRIKES									
Hole diameter	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow		
150	11.55	150	11.30	17/10/1997	1600	9.20	5.40	15.0	fast	9.00	11.30		
										;			
				:									

	<u> </u>] [1	 <u></u>
	GENERA	L NOTES					SPT D	ETAILS	
				Depth	Туре	Incremental t	olow count/pene	etration in mm	
				2.00 4.00 11.50	S	N=7 (2,1,3,1,2 1/450mm* 50/50mm*	2,1)		
						* Seating	blows only.		

NB All depths in metres, all diameters in millimetres, water strike rise time in minutes, chiselling time in hours.

Form	CP HEADER
Version	2.00
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Borehole No.

BHK5

Sheet 1 of 2

Contract No.

Project

Client

F10895

M4 Relief Road Magor to

Castleton Stage 2

Welsh Office

Method Drilling Rig

Driller

Logged by

Cable Percussion

Pilcon

I.M T.R Coordinates

339228.1 E

Ground Level

185536.9 N 5.20m AOD

Orientation

Vertical

Date Started Date Completed

17/10/1997 17/10/1997

Consultant

Ove Arup and Partners

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling	SPT N & (U blows)	SPT type & depth	Insta atio
TOPSOIL		0.30	4.90	B 0.30 - 1.00		_	
Firm greyish brown occasionally thinly laminated CLAY. (Estuarine Alluvium)		•		U 1.00 - 1.45	(10)		
				D 1.45	- - - - -		
at 2.00m becoming soft		2.40	- 200	D 2.00	S7	S 2.00	
Very soft grey very silty CLAY. (Estuarine Alluvium)	XX XX XX	2.40	2.80	B 2.50 - 3.00	<u></u>		
			- - - -	U 3.00 - 3.45	(4)		
			- - - -	D 3.80 D 4.00 - 4.60	 	S 4.00	
			-	B 4.60 - 5.00		4.45	
Firm dark brownish black fibrous PEAT with gravel to cobble size pockets of grey organic clay. (Peat)	X	5.30	-0.10	D 5.40 W 5.40 W 5.40 - 6.05 U 5.60 D 6.05	(7)		
	able, able, oble, of able, oble, obl	7.10		B 6.50 - 7.10	- - - - - - - - -		
Very soft grey organic CLAY with gravel to cobble size pockets of dark brown slightly clayey peat. (Estuarine Alluvium)	9-0-0			D 7.20 U 7.40 - 7.85	(8)	-	
				D 7.85	- - - - - - - - -		
Soft to firm reddish brown sandy very clayey SILT with gravel size pockets of sandy clay and occasional fine to medium angular to subrounded gravel. (Mercia Mudstone	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	8.90	-3.70	D 8.90 U 9.20 - 9.65	(20)		
Group)	× × × × × × × × × × × × × × × × × × ×		-	D 9.65			

NB All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

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Borehole No.

BHK5

Sheet 2 of 2

Contract No.

Project

Client

F10895

M4 Relief Road Magor to

Castleton Stage 2

Welsh Office

Method **Drilling Rig**

Logged by

Driller

Cable Percussion

Pilcon

I.M T.R Coordinates

339228.1 E 185536.9 N

Ground Level

5.20m AOD

Orientation

Vertical

Date Started Date Completed 17/10/1997 17/10/1997

Consultant

Ove Arup and Partners

	Description of Strata		Legend	Depth Below G.L.	O.D. Level	8	Sampling	SPT N & (U blows)		SPT type & depth	Insta atio
\	Soft to firm reddish brown sandy very clayey SILT with gravel size pockets of sandy clay and occasional fine to medium angular to subrounded gravel. (Mercia Mudstone Group)	/	X X X X X X X X X X X X X X X X X X X	10.30	-5.10	В	10.30 10.50 - 11.30 10.50	- - - -		-	
Γ.	Blue greenish grey completely weathered silty MUDSTONE, very weak. (Mercia Mudstone Group)				- - -			· - ·			
	from 11.30m becoming moderately to highly weathered	/		11.55	-6.35	D	11.50	S50/50mm*	s	11.50	
_	Cable Percussion boring complete at 11.55 m.				- - -			- -		-	
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NB All depths in metres, all diameters in millimetres.

See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form	NH CP LOG
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Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Borehole No.

BHL1 Header

Contract No.

F10895

M4 Relief Road Magor to Castleton Stage 2

Method

Cable Percussion

Coordinates

339545.0 E 185562.1 N

Project Client

Drilling Rig

Pilcon

Ground Level

5.00m AOD

Welsh Office

Driller Logged by

A.M MB Orientation

Vertical

Consultant

Ove Arup and Partners

Date Started Date Completed 18/10/1997 18/10/1997

		I	PROGRESS		DRILLING DETAILS						
Date	Time	Hole depth	Casing depth	Water depth	Remarks	Hardbore from depth	Hardbore to depth	Chiselling hours	Remarks		
18/10/1997	1600	10.91	9.30	8.80		10.40	10.70	1.00			
							·				
							:				

	CAS	NG		WATER STRIKES									
Hole diameter	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow		
150	10.91	150	9.30	18/10/1997 18/10/1997 18/10/1997	0000 0000 0000	1.68 6.10 10.40	1.68 5.80 8.80	0.00 15.0 15.0	slight slow fast	1.50 6.00 8.85	NR NR NR		

										·	
		GENERA	LNOTES					SPT DI	ETAILS		
Borehole Backfille	le complete ed with be	at 10.93m	ut from 10.93	3m.	Depth	Туре	Incremental	blow count/penet	tration in mm		
					1.95 4.00 6.20 9.00 10.70	s s	0/450mm* 0/450mm* N=7 (1,1,2,2, N=22 (3,4,4,6 50/75mm (17)	5,5,7)			
								blows only.			

NB All depths in metres, all diameters in millimetres, water strike rise time in minutes, chiselling time in hours.

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Method

Driller

Drilling Rig

Logged by

Borehole No.

BHL1

Sheet 1 of 2

Contract No. Project

F10895

M4 Relief Road Magor to

Castleton Stage 2

Welsh Office

igor to

Cable Percussion

Pilcon

A.M M.B Coordinates

339545.0 E

185562.1 N

Ground Level Orientation 5.00 m AOD

Date Started

Vertical 18/10/1997

Date Completed

18/10/1997

Consultant

Client

Ove Arup and Partners

Depth O.D. SPT N & SPT type Install-Below Description of Strata Legend Sampling Level (U blows) & depth ation G.L Firm to stiff grey mottled brown slightly sandy CLAY with occasional rootlets. (Estuarine Alluvium) 0.50 0.95 (12)1.50 1.68 3.32 Very soft grey slightly sandy CLAY. (Estuarine Alluvium) D 1.95 S0/450mm* S 2.40 --- from 1.95 to 3.00m slightly organic 2.60 -3.10 D 3.55 D 4.00 S0/450mm* 4.00 (5) -0.63 5.63 Firm black slightly sandy fibrous PEAT. (Peat) 6.10 -1.10 6.20 6.20 Soft dark grey mottled black slightly organic very sandy CLAY. (Estuarine Alluvium) D 7.20 Very soft dark grey mottled black sandy CLAY with (9) occasional thin beds of firm black fibrous peat. (Estuarine Alluvium) 7.75 -2.75 D 7.75 Soft dark grey slightly organic sandy CLAY with 8.10 -NR occasional sub-angular gravel and cobbles. (Estuarine Alluvium) 8.55 - 8.80 8.80 -3.80 Grey mottled pale blue highly weathered sandy D MUDSTONE, weak to moderately weak. (Mercia Mudstone Group)

NB All depths in metres, all diameters in millimetres.

See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.
 Form
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Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - CABLE PERCUSSION

Borehole No.

BHL1

Sheet 2 of 2

Contract No.

Project

Client

Consultant

F10895

M4 Relief Road Magor to

Castleton Stage 2

Welsh Office

Method Drilling Rig Driller Cable Percussion

Pilcon

A.M M.B Coordinates

339545.0 E

185562.1 N 5.00m AOD

Ground Level
Orientation

Vertical

Date Started

18/10/1997

Ove Arup and Partners D

Logged by

Date Completed

18/10/1997

	Description of Strata	Legend	Depth Below G.L.	O.D. Level	5	Sampling	SPT N & (U blows)		SPT type & depth	Install ation
M	rey mottled pale blue highly weathered sandy MUDSTONE, weak to moderately weak. (Mercia Mudstone broup)		10.40	-5.40	W	10.40 10.40 10.70	S50/75mm		10.70	
n	frown mottled grey highly weathered sandy MUDSTONE, anderately weak to moderately strong. (Mercia fudstone Group)		10.93	- -5.93 -	D .	10.70	- 2500 / 511011N	۵	10.93	
C	table Percussion boring complete at 10.93 m.			- - - -			- - - -		-	
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NB All depths in metres, all diameters in millimetres.

See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.
 Form
 NH CP LOG

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Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Borehole No.

BHL₂ Header

CP HEADER

25/06/1997

2.00

Form

Version

Revised

Contract No.

Project

Client

F10895

M4 Relief Road Magor to Castleton Stage 2

Welsh Office

Method

Driller

Drilling Rig

Logged by

Cable Percussion

Coordinates

339715.5 E

185640.1 N

Pilcon I.M

T.R

Ground Level Orientation

6.10m AOD Vertical

Consultant

Ove Arup and Partners

NB All depths in metres, all diameters in millimetres,

water strike rise time in minutes, chiselling time in hours.

Date Started

18/10/1997

Date Completed

18/10/1997

		F	PROGRESS			DRILLING DETAILS					
Date	Time	Hole depth	Casing depth	Water depth	Remarks	Hardbore from depth	Hardbore to depth	Chiselling hours	Remarks		
18/10/1997	1800	11.00	9.20	8.60		10.50	10.80	1.00			
	:										
								:			

	CAS	ING					WATER	STRIKES			
Hole diameter	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
150	11.00	150	9.20	18/10/1997	1600	10.40	9.05	20.0	slow	9.20	NR

				<u> </u>					ļ	
		GENERA						SPT D	ETAILS	
1. Bore 2. Bore	ehole comple ehole backfill	te at 11.00m ed with bent	ı. onite/cemen	t grout.	 Depth	Туре	Incremental b	olow count/pene	tration in mm	
2. Dui	enore backim	ed with bein	ome/cemen	a grout.	2.10 4.00 7.20 9.20 10.80	S S S	N=3 (1,0,0,1,1 N=1 (1,0,1,0,0 N=3(1,0,1,1,1,1 N=25 (2,4,5,6,50/60mm (19,2),0) ,0) ,7,7)		
	·						* Seating b	olows only.		



Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - CABLE PERCUSSION

Borehole No.

BHL2 Sheet 1 of 2

Contract No. Project F10895

M4 Relief Road Magor to

Castleton Stage 2

Welsh Office

Method Drilling Rig

Driller

Logged by

Cable Percussion

Pilcon

I.M T.R Coordinates

339715.5 E

Ground Level

185640.1 N 6.10m AOD

Orientation Date Started Vertical

Date Completed

18/10/1997 18/10/1997

Consultant

Client

Ove Arup and Partners

Description of Strata	Legend	Depth Below G.L.	O.D. Level	S	ampling	SPT N & (U blows)	SPT type & depth	
TOPSOIL		0.20	- 5.90					_
				_				
Soft to firm becoming soft brownish grey occasionally			_		0.50 - 1,00 0.50	-		-
thinly laminated CLAY with occasional rootlets. (Estuarine Alluvium)			_					
Adiavianty			_	U	1.00 - 1.45	(10)		_
-at 1.00m becoming soft very silty			-					
			-	D	1.45			
			_	D	1.70	-		-
		2.10	- 4.00	D	2.10		S 2.10	_
Very soft bluish grey very silty CLAY. (Estuarine	<u> </u>	2,110	- """	~	2		2.55	5 .
Alluvium)	×_×_×		-	_	255 250			:
	<u> </u>		-	В	2.55 - 3.00	_		
	×××-		-		ļ			
	<u> </u>		_	U	3.00 - 3.45	(2)		_
	<u>xx</u>				-			
	<u>x</u> x		_	D	3.45	• •		
	×		_	D	3.70	- •		-
	<u>×x</u>		_	_				
	<u>x</u> x		_	D	4.00	\$1	S 4.00 4.41	s -
	<u></u>		_				""	
	×××		_	В	4.50 - 5.00	_		
	x_x_x		_					
	<u> </u>		-	U	5.00 - 5.45	(3)		
	<u> </u>		_	Ů	3.43	(D)		-
	<u>~_~</u>		_	_				
	×xx	5.60	0.50	D	5.45 5.60	•		-
Firm dark brownish black slightly sandy fibrous PEAT.	عقابي يفادر يفادر د يفادر دفادر		_	υ	5.70 - 6.15	(20)		
(Peat)	المالات المالات المالات المالات المالات المالات		-					
C 600 M 14 111 M	عالاد عادد عالد عادد عالد		-	D	6.15 - 6.80			-
from 5.70m with gravel to cobble size pockets of brownish green slightly sandy clayey	28/40 24/40 24/40 2 24/40 24/40 2			В	6.20			
very organic silt	يالان يتادي بالاد بالدي يتادي		_			• =		-
-	بالله بالله ماله بالله بالله ب	6.80	-0.70					
Very soft grey sandy CLAY. (Estuarine Alluvium)	Xx_		_	D	7.00	_		
	XX-		<u> </u>	D	7.20		S 7.20	-
	<u>x</u> <u>x</u>		_			-	7.65	5
	<u>xx-</u>		<u> </u>	в	7.65 - 8.00	<u>-</u>		-
	X—————————————————————————————————————		<u> </u>					
	X		_			-		
	X—————————————————————————————————————		 	υ	8.30 - 8.75	. (7)		
from 8.30m with occasional firm black	<u>×——×</u>		-		C1.50 - 0C.15	. (1)		
slightly sandy fibrous peat	<u> </u>		-			-		-
	<u>x</u>		-	_		•		
	×		Ė		8.95 9.05	-		
	<u> </u>	9,20	-3,10	w	9.05	S25	S 9.20	
Greenish blue completely weathered silty MUDSTONE,			- -	D	9.20		9.6	5.
very weak. (Mercia Mudstone Group)			F	В	9.70 - 10.50	-		-
		}	ŀ	ا " ا	0	-		-

NB All depths in metres, all diameters in millimetres.

See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

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Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - CABLE PERCUSSION

Borehole No.

BHL2

Sheet 2 of 2

Contract No.

Project

Client

F10895

M4 Relief Road Magor to

Castleton Stage 2

Welsh Office

Method

Logged by

Cable Percussion

Drilling Rig Pilcon
Driller I.M

I.M T.R Coordinates

339715.5 E

185640.1 N

Ground Level 6.
Orientation V

6.10m AOD Vertical

Date Started

18/10/1997

Consultant

Ove Arup and Partners

Date Completed

18/10/1997

Description of Strata	Legend	Depth Below G.L.	O.D. Level	San	npling	SPT N & (U blows)		PT type & depth	Insta
Greenish blue completely weathered silty MUDSTONE, very weak. (Mercia Mudstone Group)	XXXXXX	10.50	-4.40	D 10	.50	-		-	
Light greyish green moderately weathered slightly sandy SILTSTONE moderately weak. (Mercia Mudstone Group)	******* ******* ******* ******* *******	11.00	-4.90		-	S50/60mm	S	10.80 11.01	
Cable Percussion boring complete at 11.00 m.			-		-	-			
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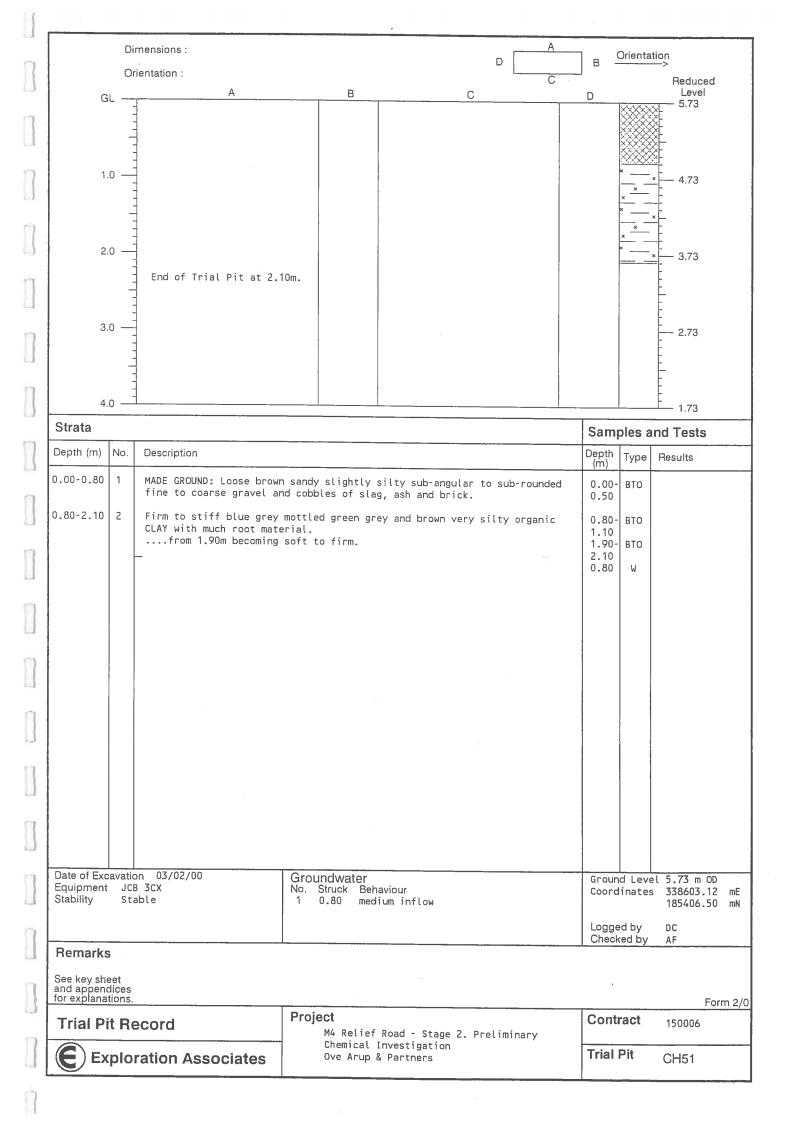
NB All depths in metres, all diameters in millimetres.

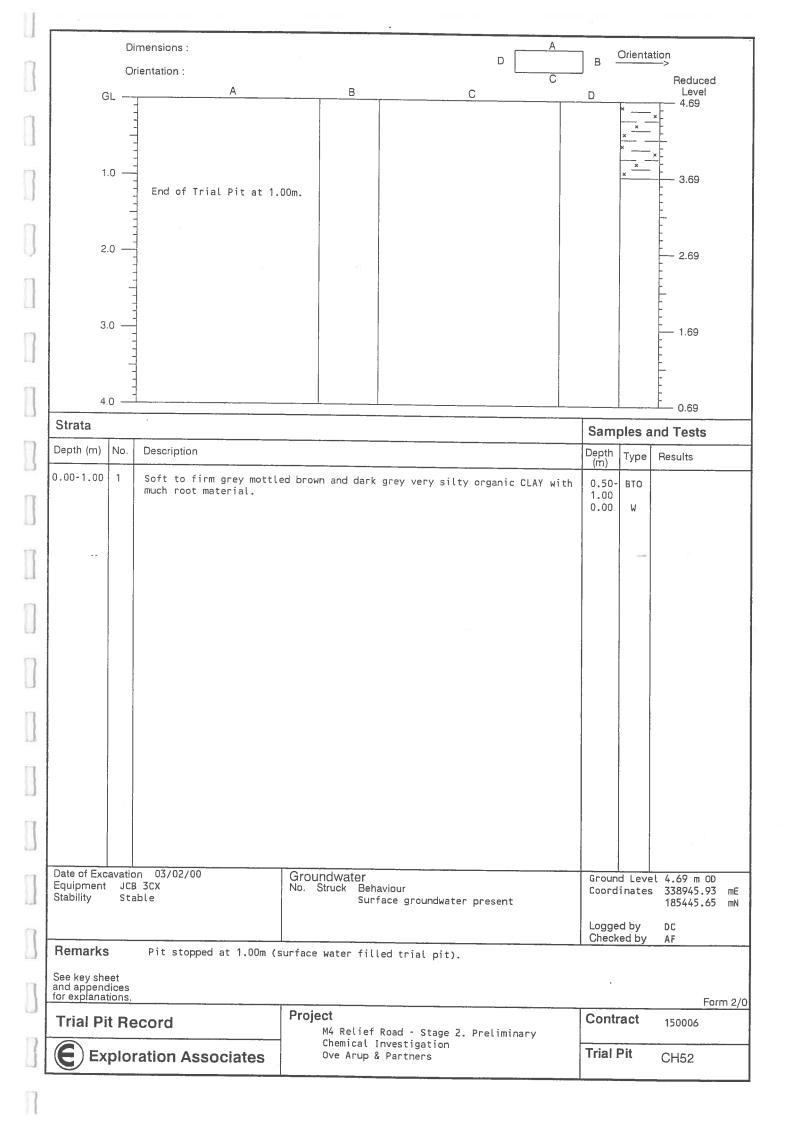
See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

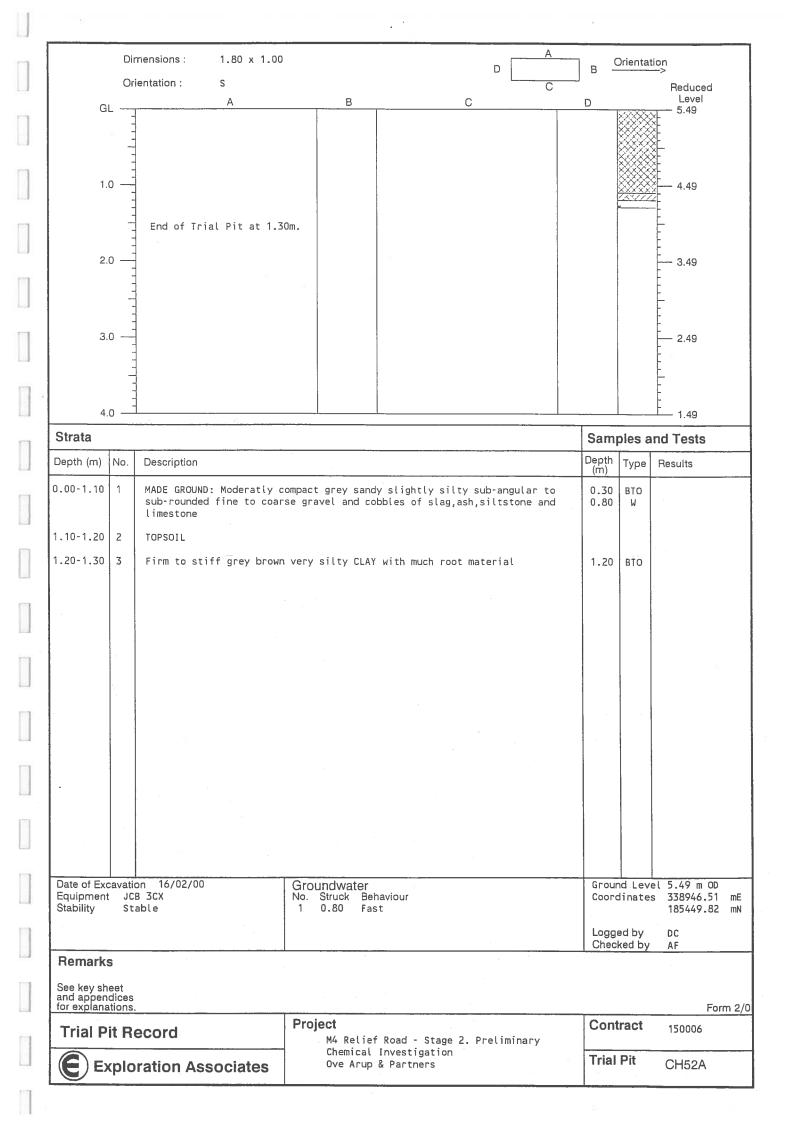
 Form
 NH CP LOG

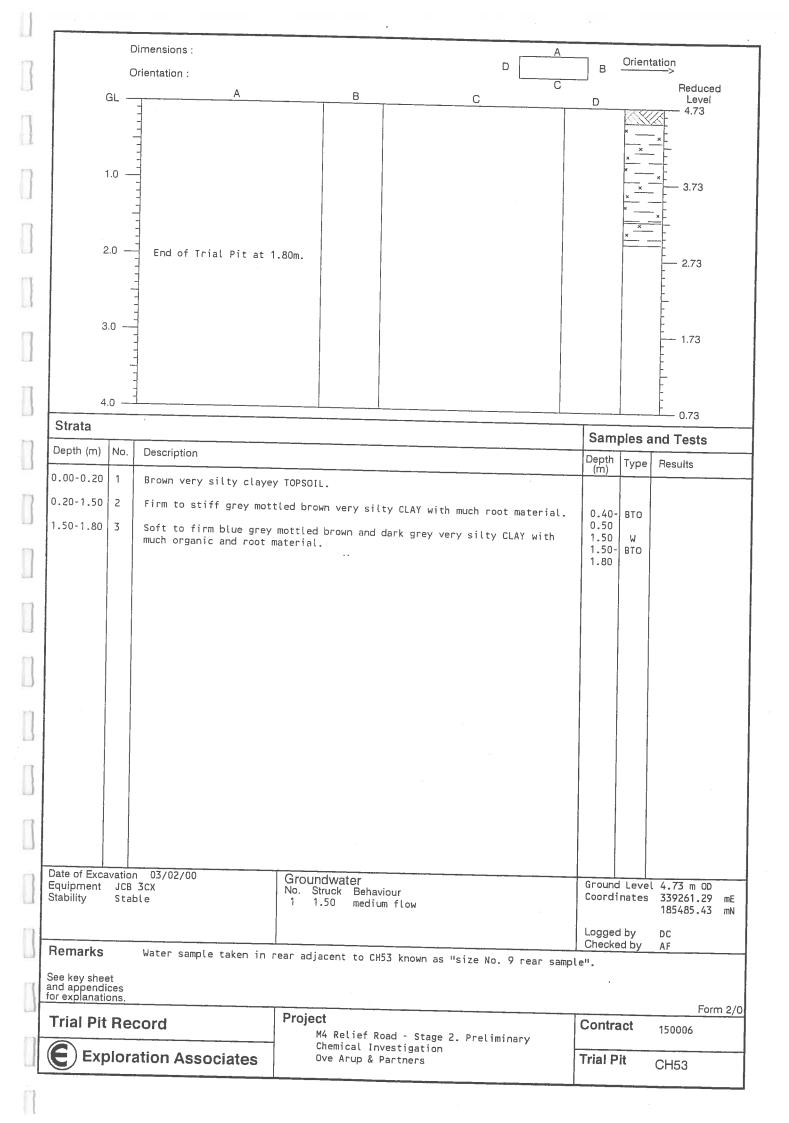
 Version
 2.00

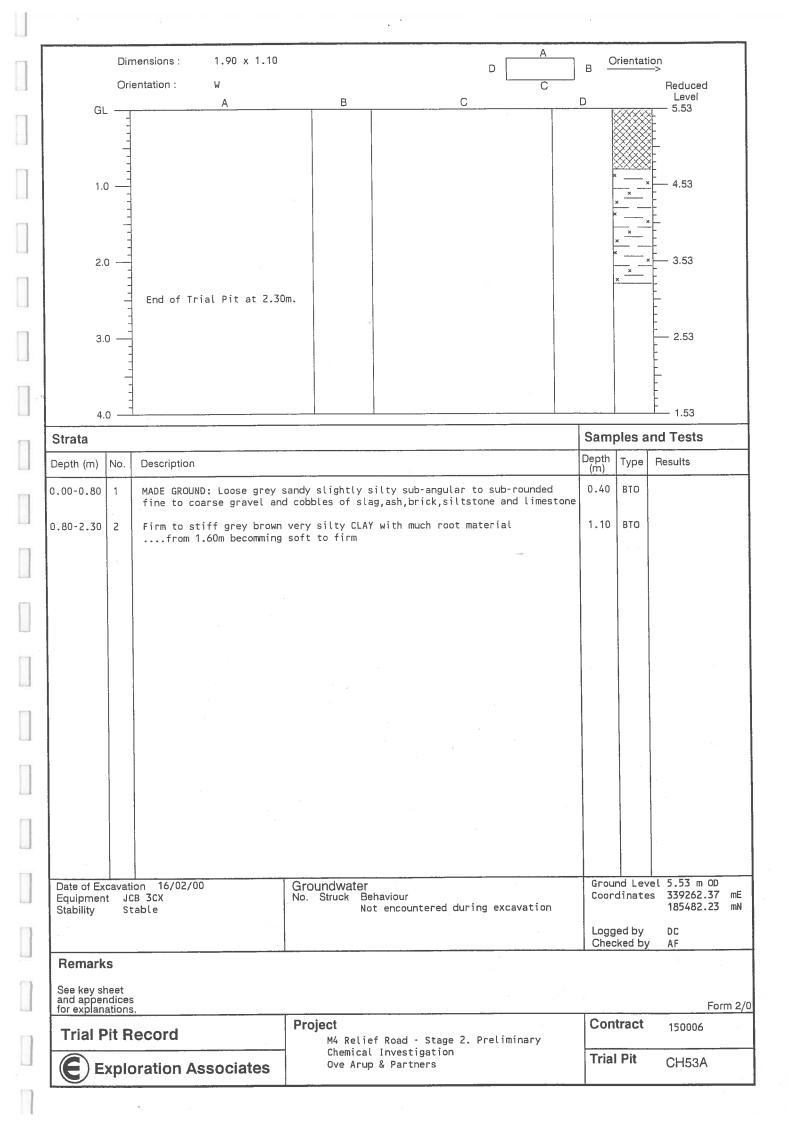
 Revised
 19/12/1996

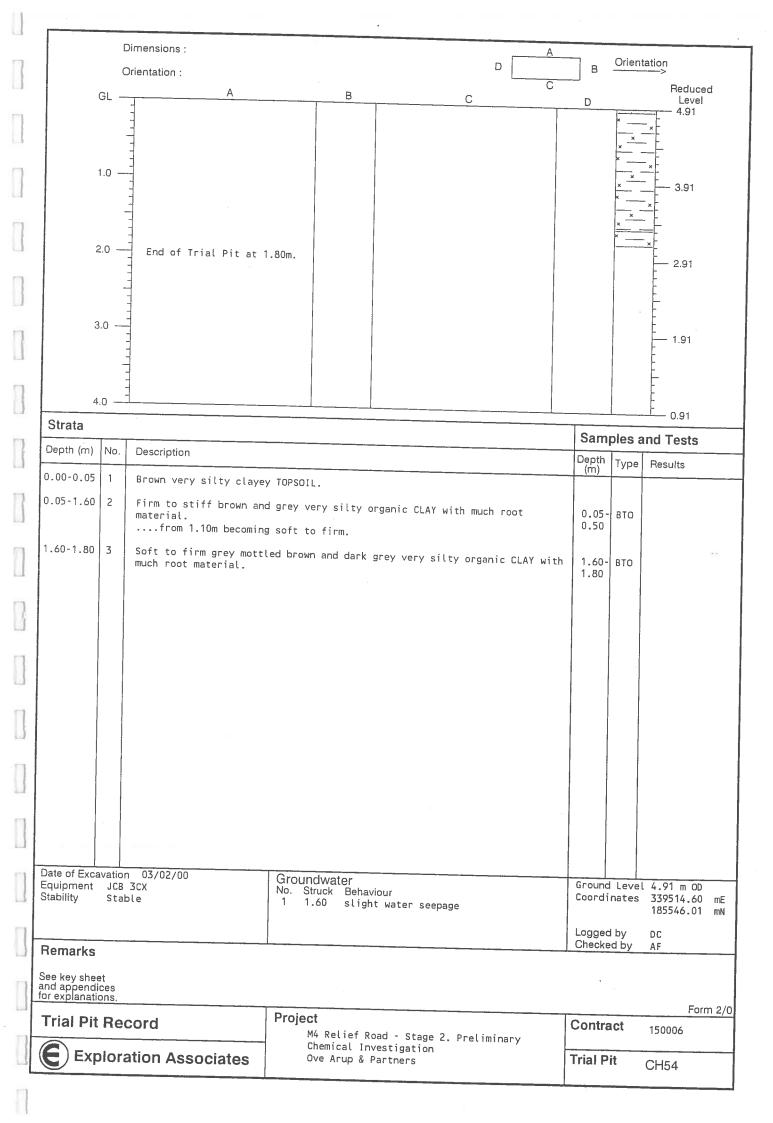


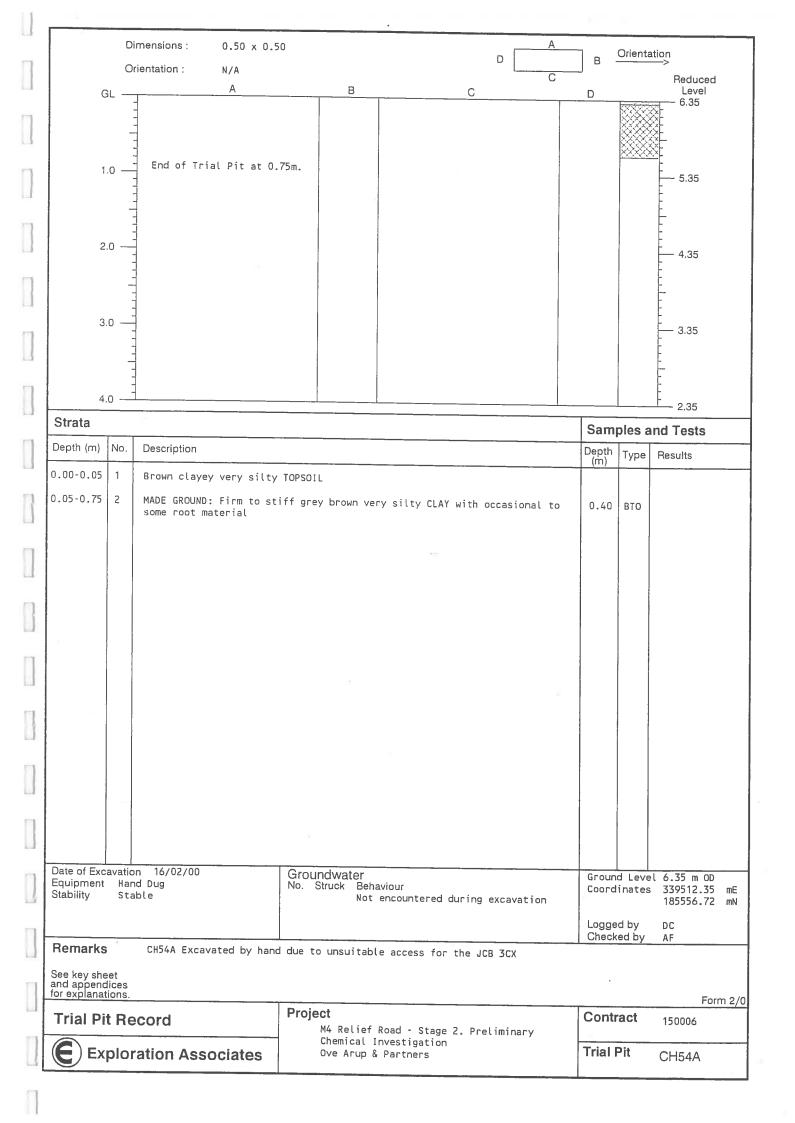














Drilled by Equipment and Methods
Cable Percussion 150 mm diameter from 0.00m to 7.00m. + 4.59 m OD Logged by E 338486.07 National Grid Checked by Coordinates N 186080.47 Samples and Tests Strata Type & No. Records Date Time Description Depth,Level Casing Water (Thickness) 30/01/2002 MADE GROUND: Black and grey sandy GRAVEL. Gravel is angular and subangular fine to coarse (1.50) of slag and limestone. 1.00 ES1 +3.09 Soft to firm grey slightly gravelly CLAY. Gravel is angular and fine. Driller reports $\{1.70\}$ 2.50 ES2 sandy clay. 3.20 +1.39 Very soft PEAT (DRILLERS DESCRIPTION). (3.80pen) MIL 30/01/2002 7.00 7.00 side, kRH 7.00 EXPLORATORY HOLE ENDS AT 7.00 m. No. Struck Behavlour Chiselling: 1,10m to 1,50m 90minutes
Hole backfill: 0,00m to 0,30m Concrete (c), 0,30m to 1,00m Bentonite (b). Surface protection: Stop Cock Cover
Standpipe installed, 50mm diameter, response zone from 1,00m to 7,00m: 0.30m Seepage Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets ENVIRONMENTAL INVESTIGATION AT LLANWERN Project Borehole STEELWORKS RBBH1 Project no. 152002 in depth column. Scale 1:50 Corus pic Carried out for Sheet 1 of 1



Equipment and Methods
Cable Percussion 150 mm diameter from 0.00m to 7.00m. Prilled by Ground Level + 5.22 m OD ogged by National Grid E 338597.19 Checked by Coordinates N 185909.39 Samples and Tests Strata Depth Type & No. Records Date Time Description Depth,Level Legend Casing Water (Thickness) 29/01/2002 MADE GROUND: Dark grey SAND AND GRAVEL. Gravel is angular to subrounded fine and medium of (1.50)0.90 ES₁ 1.50 +3.72 2,50 ES2 (2.70) Soft to firm grey mottled brown sandy CLAY. 4.20 +1.02 4.50 ES3 Black spongy pseudofibrous PEAT with frequent (1.90)soft light grey SILT pockets. 6.10 --0.88 Soft dark grey SILT. (0.90pen) 29/01/2002 0.00 ES4 6.80 7.00 EXPLORATORY HOLE ENDS AT 7.00 m. kRH Groundwater Hole backfill: 0.00m to 0.50m Concrete (c), 0.50m to 2.00m Bentonite (b). Surface protection: Stop Cock Cover Standpipe installed, 50mm diameter, response zone from 2.00m to 7.00m. Not encountered during drilling. Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets Project ENVIRONMENTAL INVESTIGATION AT LLANWERN Borehole STEELWORKS RBBH2 Project no. 152002 Carried out for Sheet 1 of 1 Corus plc



Equipment and Methods Drilled by + 4.64m OD ction Pit from 0.00m to 1.20m. Cable Percussion 150 mm diameter from 1.20m to 7.00m. ogged by National Grid E 338770.81 necked by Coordinates N 185836.90 Samples and Tests Strata Depth Type & No. Records Date Description Depth,Level Legend Casing Water (Thickness) 29/01/2002 MADE GROUND : Dark grey SAND AND GRAVEL. Gravel (0.70) is angular to rounded fine to coarse of Slag. 0.50 ES1 0.70 1.00 ES2 Soft to firm grey mottled orange brown slightly (4.70)sandy CLAY. 5.50 ES3 5.40 Soft light grey mottled dark grey and brown SILT with black spongy pseudofibrous PEAT (1.60pen) pockets. 29/01/2002 7.00 7.00 EXPLORATORY HOLE ENDS AT 7.00 m. Groundwater No. Struck Behaviour Hole backfill: 0,00m to 0,30m Concrete (c), 0,30m to 0,90m Bentonite (b). Surface protection: Stop Cock Cover Standpipe installed, 50mm diameter, response zone from 0,90m to 7,00m. 0.70m Rising to 0.70m after 20 mins. Sealed 1.00. Slow inflow Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. ENVIRONMENTAL INVESTIGATION AT LLANWERN STEELWORKS **Borehole** RBBH3 Project no. Carried out for Corus pic Sheet 1 of 1



Borehole

RBBH4

Sheet 1 of 1

Exploration Associate Drilled by GW Equipment and Methods
Cable Percussion 150 mm diameter from 0.00m to 7.00m. Ground Level ogged by + 5.05m OD JN necked by National Grid E 338433.74 Coordinates N 185791.62 Samples and Tests Strata Depth Type & No. Records Date Time Description Depth,Level Legend Casing Water (Thickness) MADE GROUND: Grey brown very sandy GRAVEL. 0.50 ES1 Gravel is angular and subangular fine and (1.00)medium of slag. 1.00 1.20 ES2 Firm grey mottled orange brown slightly sandy (5.60) 6.70 ES3 6.60 -1.55 30/01/2002 PEAT (DRILLERS DESCRIPTION). (0.40pen) EXPLORATORY HOLE ENDS AT 7.00 m. 7.00 --1.95 Groundwater Not encountered during drilling. Chiselling: 0.00m to 1.00m 180minutes

Hole backfill: 0.00m to 0.30m Concrete (c), 0.30m to 0.90m Bentonite (b). Surface protection: Stop Cock Cover Standpipe installed, 50mm diameter, response zone from 0.90m to 7.00m. Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. ENVIRONMENTAL INVESTIGATION AT LLANWERN STEELWORKS Project

Project no. Carried out for

Corus plo

03/05/2002 11:16:19 ESGLog v2.10



Orilled by agged by Checked by	GW LM		om 0.00m to 1.00m.	Cable	Percussion 150 mm diameter from 1.00m to 7.00m.	Ground Levi National Gri Coordinates	d	-
Samples	and Test	S			Strata			_
Depth	Type & No.	Records		Time Water	Description	Depth,Level (Thickness)	Legend	_
0.50	ES1		29/01/2002		MADE GROUND: Dark grey SAND AND GRAVEL. Gravel is subangular and subrounded fine and medium of slag.	(1.50)	c b	
1.70	ES2				_	1.50		
)					- -			
		,			Soft to firm grey mottled orange brown slightly sandy CLAY with rare pockets of decaying plant matter.	(5.20)		
			29/01/2002 7.00		Soft dark grey SILT with frequent brown spongy pseudofibrous PEAT pockets.	6.70 Z	, salete, sale	
6.80 7.00	ES3	kRH			EXPLORATORY HOLE ENDS AT 7.00 m.	7.00		
	·				777777777777777777777777777777777777777	·		
	g to 1.30m after 20	0 mins. Sealed 2.00). Slow inflow	C	emarks hiselling : 1,00m to 1,50m 90minutes ble backfill : 0,00m to 0,30m Concrete (c), 0,30m to 0,90m Bentonite (b). Sur andpipe installed, 50mm diameter, response zone from 0,90m to 7,00m.	face protection : St	op Cock Cover	_
: For explana- riations see ke in metres. Stra th column. 1:50	tion of symbols an ey sheet. All depth atum thickness giv	d is and reduced ven in brackets	Project Project no. Carried out for	ENVII STEE 15200 Corus	12 12	Borehole RBI Sheet		_

DDC
RP3

Borehole No.

SBHK01 CP

Sheet 1 of 2

Project Name: M4 CaN (Temp)			Co-ordinates:					Hole Type	э:			
Project	No:	JER6591-Temp	Easti	ng:	338433	Dr	illing Met	hod:			СР	
Locatio	n:		North	ning:	185614		Dando)	Casing Diameter (mm)	Casing Depth (m)	Scale:	
Client:			Groun (mAOI	d Level O):	5.26	Log	ged By:	DH	200	12.50	1:50	
		Samples & In Situ Testing		Donath	Thickness	Laval			-			

			(mAi	_	5.20	Logi	,ou by.	D.1			1.00	
Water Strike(s)		1	Situ Testing	Depth (mbGL)	Thickness (m)	Level (mAOD)	Legend		Strat	um Description		Sca
1	Depth (m)	Туре	Results	0.00	(111)	5.26	<u> </u>	Firm a	rey mottled orangis	h brown slightly gr	avelly CLAY with	_
	0.50 - 1.00 1.00 1.00 1.50 1.50 2.00 - 2.50	B1 W1 W001 D3 SPT(S)	N=8 (1,1/1,2,2,3)	1.50	(1.50)	3.76		occasi (Estua (TFD)	ional rootlets. Grave irine Alluvium) in 1.30m becomes fir oft to soft grey silty	ekl is angular fine o	f mudstone.	
	3.00 3.00 - 3.45 3.00 3.50 3.50 - 3.95 3.50	ES006 U6 U006 D7 D8 SPT(S)	Blows=6 N=4 (1,0/1,1,1,1)		(3.20)							
	4.70 5.00 - 5.45 5.50 - 5.95 5.50 5.50 6.00 - 6.50	D9 U10 D12 D11 SPT(S) B13	Blows=10 N=7 (1,1/2,1,2,2)	4.70	(2.10)	0.56	atles alles a so alles atles at so atles atles at so atles atles at so atles at so atles at so atles at so atles at so atles at so atles at so atles at so atles at so atles at so atles at so at so at so at so so so so so so so so so s	(PEAT fron sized	yy black pseudofibro) n 4.70m to 5.50m wi pockets of very soft	th closely spaced co	arse gravel	
	6.80 6.80 6.80 7.00 - 7.45	D14 W1 W001 U15	Blows=5	6.80		-1.54	alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle,	Uncon (Orgar (TFD)	npact grey and blac nic odour). Estuarin	k clayey slightly sa e Alluvium)	ndy SILT	
1	7.50 - 7.95 7.50 8.00 - 8.50	D17 SPT(S) B18	N=2 (1,0/0,1,0,1)	***************************************	(2.20)							
	9.00 - 9.45	U19	Blows=12	9.00	(1.00)	-3.74	X X X X X X X X X X X X	occasi pseudo	oft grey slightly silty ional medium to coa ofibrous peat. Grav rse of sandstone ar	arse gravel sized po el is subangular to	ockets of black subrounded fine	
	9.50 9.50 9.50 - 9.95	D021 D21						(110)				

Remarks

1. Cable Percussive boring terminated at 13.50m. 2. 50mm standpipe installed, slotted from 4.80m to 6.80m.

(Groundwate	er	Chiselling						
Strike Depth (m)	Casing Depth (m)	Level After 20 Mins (m)	Duration (Mins)	Top Depth (m)	Base Depth (m)				
			01:00	12.90	13.20				



	RP	S			В	OR	EH	ЭL
Projec	t Name	e: M4 Cal	N (Temp	p)	Co-	ordinate	s:	
Projec	t No:	JER65	91-Tem)	Easti	ng:	338433	
Location	on:				Nortl	ning:	185614	
Client:					Grour (mAO	nd Level D):	5.26	Lo
Well	Water		oles & In S	Situ Testing		Depth	Thickness	Leve
vven	Strike(s)	Depth (m)	Туре	Results		(mbGL)	(m)	(mAO
							(0.40)	
		10.50 10.50 - 10.90	U023 U23	Blows=100)	10.40		-5.14
		11.00 11.00 - 11.40 11.00	D24 D25 SPT(S)	50 (6,8/50 fc	or			

E LOG

Date(s): 06/12/2007 - 07/12/2007

Hole Type: СР

Borehole No.

SBHK01 CP Sheet 2 of 2

Scale:

Drilling Method:

Casing Diameter (mm) 200 Casing Depth (m) Dando 12.50 ogged By: DH

										(11111)		1	
Client:					Ground Level (mAOD):	5.26	Log	ged By:	DH	200	12.50	1:50	
Well	Water			Situ Testing	Depth	Thickness	Level	Legend		Strat	um Description		Scale
- VVCII	Strike(s)	Depth (m)	Туре	Results	(mbGl	(m) (0.40)	(mAOD)	Logona as es	Soft to	firm greenish grey	slightly sandy grav	velly CLAY with	Joans
		10.50 10.50 - 10.90	U023 U23	Blows=10	10.40		-5.14		to coar are sub (TFD)	rse of sandstone, moangular of limesto	nudstone and limes ne. (Estuarine Allu	stone. Cobbles vium?)	-
		11.00 11.00 - 11.40 11.00	D24 D25 SPT(S)	50 (6,8/50 fc	or				CLAY.	Gravel is angular fi one). (Mercia Muds	ne to medium (We	athered	11 -
	<u>.</u>	11.50 - 12.00	B26	200mm)									 -
						(3.10)							12 –
		12.50 - 12.90 12.50	D27 SPT(S)	50 (9,13/50 t 190mm)	or								13 –
		13.20 - 13.50 13.20	D28 SPT(S)	50 (8,15/50 t 170mm)	or					End of	Borehole at 13.50m		
										Elio di	Doronolo de 10.00m		14 –
													-
													15 –
													16 –
													-
					# # # # # # # # # # # # # # # # # # #			<u> </u> 					17 -
					1								18 –
													19 –
													-
			, ,	!	•	į	į	!	!				20 –

1. Cable Percussive boring terminated at 13.50m. 2. 50mm standpipe installed, slotted from 4.80m to 6.80m.

Groundwater Chiselling Strike Depth (m) Casing Depth (m) Duration (Mins) Level After 20 Mins (m) Top Depth (m) Base Depth (m) 01:00 12.90



RPS

Borehole No.

SBHK02 CP

Sheet 1 of 2

Project Name	e: M4 CaN (Temp)	M4 CaN (Temp) Co-ordinate				ordinates: Date(s): 11/12/2007 - 12/12/20			
Project No:	JER6591-Temp	Easting:	338651	Drilling Method:				СР	
Location:		Northing:	185597	Dando)	Casing Diameter (mm)	Casing Depth (m)	Scale:	
Client:		Ground Leve (mAOD):	^{el} 5.53	Logged By: DH		200	12.00	1:50	
	Complea & In City Teating	_							

ieni.	Sam	nlos & In S	Situ Testing		5.55		jeu by.	υп		1.50	_
Water Strike(s)	Depth (m)	Type	Results	Depth (mbGL)	Thickness (m)	Level (mAOD)	Legend		Stratum Description		Sc
	0.30	ES1	7.000.00	0.00	(0.50)	5.53		MADE (MG)	GROUND: Slag, stone. (Driller & des	cription)	
	0.50 - 1.00	B2		0.50		5.03		fragme	GROUND: Black and grey sandy gra ents are coarse. Gravel sized fragmen gular fine to coarse of ash and clinke	nts are angular to	
	1.00 1.00 - 1.45 1.00 1.00	ES003 D4 L003 ES3						(MG)			
	1.00 - 2.00 1.00 1.33 1.33	B5 SPT(S) W1 W001	N=20 (3,3/3,4,6,7)		(2.00)						
	2.00 2.00 - 2.45 2.00 2.50 - 2.95	ES6 D7 SPT(S) U9	N=21 (2,3/4,5,6,6) Blows=9	2.50		3.03			n 2.00m with gravel of mudstone oft extremely low strength grey silty C	NAV (Estuarina	-
	2.50 3.00	D8 ES011	DIOWS=3					Alluviu (TFD)		LAY. (Estuarine	
	3.00 - 3.45 3.00 3.00 3.00 3.00 3.50 - 4.00 3.50 4.00	D12 D10 ES11 L011 SPT(S) B13 B013 ES14	N=3 (1,0/1,1,0,1)								
	4.50 4.50 4.50 - 4.95	U015 ES015 U15	Blows=6		(4.50)						
	5.00 - 5.45 5.00 - 5.45 5.00 5.00	D18 D16 ES17 SPT(S)	N=3 (1,0/1,0,1,1)								
	6.00	D19									
	6.50 - 6.95	U20	Blows=7		 			from plastic	n 6.50m with very closely spaced thin la black pseudofibrous peat	minations of	
	7.00 - 7.45 7.00	D22 SPT(S)	N=6 (1,1/1,2,1,2)	7.00		-1.47	n silen silen silen silen si n silen silen	(PEAT)	y black pseudofibrous PEAT. (Peat)		
	7.50 - 8.00	B23		7.00	(0.90)	0.07	a sance sance able able a a able able able able a a able able				Ì
				7.90		-2.37		subano	oft grey slightly gravelly silty CLAY. G gular to well rounded of mudstone, sa ne. (Estuarine Alluvium)		
	8.50 - 8.95 8.50	U24 U024			(1.20)			,			
	9.00 9.00 - 9.45 9.00	D25 D26 SPT(S)	N=14 (1,2/3,3,4,4)	9.10		-3.57		CLAY of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o	ueish grey mottled greyiosh brown sli with closely to very closely spaced fin sized lenses of light brown fiberous p ir to subangular fine to medium of mu rine Alluvium)	e to coarse eat. Gravel is	1
	10.00 - 10.45	U27	Blows=21					(TFD)	Continued on next sheet		

Cable Percussive boring complete at 13.70m. 2. Insitu permeability testing carried out from 12.00m to 13.70m. 3. 50mm standpipe installed, slotted from 7.20m to 11.20m.

(Groundwate	er	Chiselling					
Strike Depth (m)	Casing Depth (m)	Level After 20 Mins (m)	Duration (Mins)	Top Depth (m)	Base Depth (m)			
1.00	0.00	0.80	01:00	13.00	13.40			



DDC
KPS

Borehole No.

SBHK02 CP

Sheet 2 of 2

Project Name:	M4 CaN (Temp)	Co-ordinat	es:	Date(s):	Hole Type:		
Project No:	JER6591-Temp	Easting:	338651	Drilling Method:			СР
Location:		Northing:	185597	Dando	Casing Diameter (mm)	Casing Depth (m)	Scale:
Client:		Ground Level (mAOD):	5.53	Logged By: DH	200	12.00	1:50

lient:				ound Level AOD):	5.53	Logg	ged By:	DH	200	12.00	1:50	
Well Water Strike(s)	Samp Depth (m)	ples & In Type	Situ Testing Results	Depth (mbGL)	Thickness (m)	Level (mAOD)	Legend		Stra	tum Description		Sca
	10.50	D28	Results	(mboz)	(2.10)	(1111/02)						
	11.20 11.20 11.30 11.50 - 11.75 11.80 - 12.20 11.80	W001 W1 D29 B30 D31 SPT(S)	50 (10,15/50 for 155mm)	11.20		-5.67		Very sti subang sandsto Group) (MMG)	ff reddish brown s ular fine to coarso one (Weathered N	slightly gravelly CLA e of mudstone siltsto fudstone). (Mercia M	Y. Gravel is ine and Mudstone	11
	12.50 12.80 - 13.10 12.80 13.20 13.40 - 13.70 13.40	D34 D35	50 (26 for 135mm/s for 115mm) 50 (25 for 125mm/s		(2.50)							13
			for 85mm)						End o	Borehole at 13.70m		. 14
												15
		l I			 			l !				10
				U U U								1
												1
												1
					!							2

Cable Percussive boring complete at 13.70m. 2. Insitu permeability testing carried out from 12.00m to 13.70m. 3. 50mm standpipe installed, slotted from 7.20m to 11.20m.

(Groundwate	er	Chiselling					
Strike Depth (m)	Casing Depth (m)	Level After 20 Mins (m)	Duration (Mins)	Top Depth (m)	Base Depth (m)			
1.00	0.00	0.80	01:00	13.00	13.40			



RDS
Kra

Borehole No.

SBHK03 CP

											Sheet 1 of	2
Project	t Name: M4 CaN (Temp)			Co-ordinates:			D	ate(s):	18/12/2007 - 2	0/12/2007	Hole Type	э:
Project	No:	JER6591-Temp	Easting	ı:	338868	Drilli	ing Meth	nod:			CP	
Location:		Northin	g:	185648		Dando)	(mm)	Casing Depth (m)	Scale:		
Client:		Ground L (mAOD):		5.83	Logge	d By:	PH	200	11.00	1:50		
		0 1 01 0" T "										

JIICITE.				(mAC)U):			,	' ' '			1.50	
Well	Water Strike(s)			Situ Testing	Depth (mbGL)	Thickness (m)	Level (mAOD)	Legend		Strat	um Description		Scale
111		Depth (m)	Туре	Results	0.00	(111)	5.83	*****	MADE	GROUND: Very co	ompact slag. (Driller	s description)	
		0.30	ES1		0.00		0.00		(MG)	ortoons. vory of	ompact dag. (Dillion	o docompaion)	
		0.30	EST										
						(1.20)							
		0.89	W1										
		0.89	W001										1 -
		1.00	ES2		1.20		4.63	***************************************	Firm are	ev mottled arevish	brown slightly sand	v slightly	4
	i i	1.00 1.00	L002 ES002		į	j	i i		gravelly	CLAY. Gravel is a	angular fine of muds		İ
	: : ! !	1.20	D3		!	(0.70)			(Estuari (TFD)	ne Alluvium)			2 -
		1.20 - 1.65 1.70	U4 D005	Blows=14	1.90		3.93		from	1.46m soft			
		1.70	D5		1.90		3.93			y silty CLAY with ne Alluvium)	rare pieces of organ	ic material.	2 -
		1.70 1.70	D6 SPT(S)	N=8 (2,2/3,2,2,1)					(Estuan	ne Anaviani)			
		2.00	ES007	N=0 (2,2/3,2,2,1)		1 1	1		` ′				1
		2.00	ES7										
		2.50 2.50	D008 D8										
		3.00 - 3.45	U10	Blows=5									3 -
		3.00	ES9			(2.60)							
		3.50	D12										
		3.50	D12					<u> </u>					
		3.50	D011	N 0 (4 0 4 0 4 0)									
		3.50 4.00	SPT(S) ES13	N=2 (1,0/1,0,1,0)									4 -
			-5.5										
					4.50		1.33						
					4.50	(0.40)	1.33				sely spaced very th		
					4.00	(0.40)	0.02			rey siity CLAY and ne Alluvium with p	d plastic black amor beat bands)	pnous PEAT.	
		5.00 - 5.45	U16		4.90		0.93	اد مالاد مالاد مالاد مالاد م	(TFDP)	•	•		5
		5.00 5.00	U016 ES015					e alle alle	Spongy (PEAT)	black pseudofibro	ous PEAT. (Peat)		
		5.00	ES15			(1.00)		સોર્ધર સોર્ધર સે દિ સોર્ધર સોર્ધર	(FLAI)				
		5.50	D017					مالاد مالاد م د مالاد مالاد					
		5.50 5.50	D18 D17		5.00		0.07	مالاء مالاء م					
'		5.50	SPT(S)	N=10 (1,2/2,3,3,2)	5.90		-0.07	$\times \times \times \times$		ely low strength gr	ey SILT. (Estuarine /	Alluvium)	6
		5.90 5.90	W001 W1					((TFD)				
	 	6.00	D19	 		1		$\times \times \times \times$					1
	; !					1		$\times \times $					1
								$\times \times $					
		7.00 - 7.45	U21	Blows=3				$\times \times \times \times$					7
	ļ	7.00 7.00	U021 ES021		1	(2.60)	!	$\times \times $					
		7.00	D020	l I				$\times \times $					1
		7.00 7.50	D20 D022					$\times \times \times \times \times$	from	7.50m coarse grav	rel sized pockets of fin	e sand	
	l	7.50	D022					$\times \times $					
	i	7.50	D22	N 4 (4 0/0 4 0 0)	i			$\times \times $					8
		7.50	SPT(S)	N=1 (1,0/0,1,0,0)				$\times \times \times \times$					
		8.50	D24		0.50		2.67	(
		8.50	D024		8.50		-2.67				medium to coarse gr	ravel sized	9
						į			(TFD)	of peat. (Estuarine	: Aluvium)		1
	1	9.00 - 9.45	U25	Blows=11	1	(1.00)			, ,				9
					i			<u> </u>					
		9.50	D026		9.50		-3.67						İ
	İ	9.50	D26		9.50		-3.07				lightly gravelly CLA		
		9.50	D27	N-12 (2.2/2.2.2.2.)	į	(0.50)				um. Gravel is subi ine. (Estuarine Alli	angular fine to coars uvium)	e or	
		9.50 10.00	D028	N=12 (2,2/3,3,3,3)	10.00	!	-4.17				nued on next sheet		10
		10.00	D28							Contir	iueu on next sneet		
											01: 11:		
narks							G	roundwa	ter		Chiselling		

1. Cable Percussive boring from GL to 11.50m. 2. 50mm standpipe installed, slotted from 4.90m to 5.90m.

| Strike Depth (m) | Casing Depth (m) | Casing Depth (m) | Level After 20 | Mins (m) | O2:30 | 0.00 | 1.00 | 01:00 | 11.20 | 11.50 |



	RPS	5			В	BOREHOLE LOG							Borehole N SBHK03 Sheet 2 of	СР
Project	Name	M4 Ca	N (Temp	D)	Co-d	ordinate	s:			Hole Typ				
Project	No:	JER65	91-Tem	 р	Easti	ng:	338868	Di	rilling Metl	hod:			СР	
Location	on:				Northing: 185648		Dando		Casing Diameter (mm)	Casing Depth (m)	Scale:			
Client:	nt:			Groun (mAOI	d Level D):	5.83	Log	ged By:	200 11.00			1:50		
Well	Water Strike(s)			Situ Testing	1	Depth	Thickness	Level	Legend		Strat	tum Description		Scale
Well	Water Strike(s)	11.00 11.00 11.20 11.50 11.50 11.50	D29 D029 D30	Results 50 (25 for 40m for 30mm)) m/50	11.00 11.20	(1.00) (0.20) (0.30)	-5.17 -5.37	Legend	Very st angula (Mercia (MMG) Very w angula Mudsto (MMG)	very stiff grey CLA iff reddish brown s r fine to medium of a Mudstone Group eak reddish brown r fine to medium g one Group) in 11.20m recovered ents	tum Description Y. (Estuarine Alluviu Ilightly gravelly CLA' f mudstone (Weather) MUDSTONE. Recoravel sized fragment as fine to medium gra f Borehole at 11.50m	Y. Gravel is ered Mudstone). overed as ts. (Mercia	11 — 11 — 13 — 14 — 15 — 16 — 17 — 18 — 18 — 18 — 18 — 18 — 18 — 18
														19

Remarks	
	Percussive boring from GL to 11.50m. 2. 50mm standpipe installed, om 4.90m to 5.90m.

(3roundwate	er	Chiselling					
Strike Depth (m)	ke Depth (m) Casing Depth (m)		Duration (Mins)	Top Depth (m)	Base Depth (m)			
			02:30 01:00 01:00	0.00 1.00 11.20	1.00 1.20 11.50			



DDC
KP5

Borehole No.

SBHK04 CP

Sheet 1 of 2

Project Name:	M4 CaN (Temp)	Co-ordinat	es:	Date(s):	Hole Type:							
Project No:	JER6591-Temp	Easting:	339197	Drilling Method:			СР					
Location:		Northing:	185656	Dando	Casing Diameter (mm)	Casing Depth (m)	Scale:					
Client:		Ground Level (mAOD):	5.55	Logged By: DH	200	11.00	1:50					

/oll	Water	Sam	ples & In	Situ Testing	Depth	Thickness		Logond	Stratum Description	Sca
/ell	Strike(s)	Depth (m)	Туре	Results	(mbGL)	(m)	(mAOD)	Legend	Stratum Description	Sca
П					0.00		5.55		Firm to stiff grey mottled orangish brown CLAY. (Estuarine	
		0.30	ES1						Alluvium)	
		0.30	L001						(TFD)	
		0.30	ES001							
		0.50	12001							
		1.00	U4	Blows=12						
		1.00	ES2	DIOW3=12						
		1.00	ES002			Į.				-
i	i	1.00	D3	İ	i	i	i			Ì
ļ	ļ	1.50	D6	!	ļ.	ļ.	!			!
;	1	1.50	D5	 	1	1	1			1
1	1	1.50	SPT(S)	N=12 (1,2/3,3,3,3)		İ				
- 1	1	2.00	D7							
- 1		2.00	ES8							
ı	- 1	2.00			ĺ	i	i	Hi		
- 1			T.	l .	t .	t .	t			1
- 1	1					(5.00)	1			1
		3.00	D9							
		3.00	ES10							
		3.00	U11	Blows=11						
				Diows-11						
		3.50	D12						from 3.50m to 4.00m slightly sandy slightly gravelly. Gravel	
		3.50	SPT(S)	N=7 (1,2/1,2,2,2)					is angular fine of orangish brown mudstone	
		4.00	D14							
		4.00	ES15						from 4.00m becomes soft	
		4.00	L010							
		5.00	ES017		5.00		0.55			4
		5.00	D16		3.00		0.55		Very soft grey silty CLAY. (Estuarine Alluvium)	Ι'
		5.00	ES17						(TFD)	
		5.00 - 5.45	U18	Blows=12		(0.00)				
		5.50	D20	DIOW3=12		(0.90)				
		5.50	D19							
		5.50	SPT(S)	N=12 (2,2/2,3,3,4)						
		6.00	D21	14-12 (2,2/2,0,0,4)	5.90		-0.35	ماد ماد ه	Plastic black pseudofibrous PEAT. (Peat)	١,
		0.00	521					معدد معدد م د مقاش مقاش	(PEAT)	'
-	- 1				I	!	l	مادر عادر ما		
!			!	!		!		د عادد عاده		1
- !			!			(4.40)		عادد عادد م		1
1			-			(1.40)		n sälen sälen		1
- 1						1		مثلاد مثلاد م د مثلاد مثلاد		1
		7.00 - 7.45	U23	Blows=14		1		ر مسر مسرم مناخر مناخر م		-
		7.00 - 7.43	D23	DIOW5=14	:		:	د عادد عاده	from 7.00m becomes firm brown	1
i	- 1	7.00	1	Ì	720	İ	1 75	مالاد مالاد م		1
•					7.30	t .	-1.75		Soft grey CLAY with closely to very closely spaced medium	7
		7.50	D25			l			to coarse gravel sized lenses of spongy black fibrous peat	1
		7.50	D24			1			(Organic odour). (Estuarine Alluvium)	
		7.50	SPT(S)	N=3 (1,0/1,0,1,1)		1		H <u>-</u>	(TFD)	
		8.00	D26			1	:	-		
	I	0.00	D20			1	[-		
						1				
						(2.20)]		
						(====)				
						1				
H						1				1
		8.87	W1							
į	i	8.87	W001	. DI ::	į	İ	į	[-		İ
!		9.00 - 9.45	U28	Blows=11	i	!	i			1
- 1	į	9.00	ES028		į	}	į			1
ļ	i	9.00	D27	ļ	9.50	ļ	-3.95			_
į	- 1	9.00	U028		3.50	ì			Firm greenish grey mottled orangish brown slightly sandy	į.
i		9.50	D30	i		į			CLAY. (Estuarine Alluvium)	į.
- 1		9.50	D29			:			(TFD)	1
\dashv		9.50	SPT(S)	N=26 (3,3/6,6,7,7)	-		-		Continued on next sheet	- 1
									Continued on heat sheet	
										İ
\dashv										<u> </u>
rks						1	(-)	roundwa	ter Chiselling	

1. Cable Percussive boring complete at 12.20m. 2. 50mm standpipe installed, strike Depth (m) Casing Depth (m) (m)

Groundwater Chiselling

Strike Depth (m) Casing Depth (m) Level After 20 Mins (m) Duration (Mins) Top Depth (m) Base Depth (m) 01:00 12:00 12:20



DDC
KLS

Borehole No.

SBHK04 CP Sheet 2 of 2

Project Name:	M4 CaN (Temp)	Co-ordinate	es:	Date(s):	08/12/2007 - 1	Hole Type:	
Project No:	JER6591-Temp	Easting:	339197	Drilling Method:			CP
Location:		Northing:	185656	Dando	Casing Diameter (mm)	Casing Depth (m)	Scale:
Client:		Ground Level (mAOD):	5.55	Logged By: DH	200	11.00	1:50

Client:					Ground Level (mAOD):	5.55	Log	ged By:	DH	200	11.00	1:50	
Well	Water Strike(s)			Situ Testing	Depth (mbGL)	Thickness	Level	Legend		Stra	tum Description		Scale
Well	Water Strike(s)	Sam Depth (m) 11.00 11.00 11.00 - 11.45 11.50 11.50 12.20 12.20 12.20	U033 D32 U33 D34 D35 SPT(S)	Results Blows=96	(mbGL)	Thickness (m) (1.50)	Level (mAOD)	Legend	Very st CLAY. (Weath (MMG)	in 10.00m becomes irounded fine to meditiff medium stength Gravel is angular facred Mudstone).	slightly gravelly. Grav dium of sandstone an n reddish brown slig fine to medium of m (Mercia Mudstone G	htly gravelly	11 —
													15 -
	1												17 -
													19 –
Remarks	<u> </u>						G	roundwa	tor		Chiselling		_

Cable Percussive boring complete at 12.20m. 2. 50mm standpipe installed, Strike Depth (m)

slotted from 10.20m to 12.20m.

Strike Depth (m)

Groundwater Chiselling

Strike Depth (m) Casing Depth (m) (m) Level After 20 Mins (m) (Mins) Top Depth (m) Base Depth (m)

O1:00 12:00 12:20



RPS

Borehole No.

SBHL01 CP Sheet 1 of 2

Project Name:	M4 CaN (Temp)	Co-ordinate	es:	1	Date(s): 11/12/2007 - 12/12/2007				
Project No:	JER6591-Temp	Easting:	339456	Drilling Met	thod:			СР	
Location:		Northing:	185700	Dando	ס	Casing Diameter (mm)	Casing Depth (m)	Scale:	
Client:		Ground Level (mAOD):	4.93	Logged By:	DH	200	10.50	1:50	

1,00 1,45	esults (mbGL) (m) (mAOD) Legend Stratum Description Scal 0.00 4.93 Firm grey mottled orangish brown slity CLAY with occasional rotelets. (Estuarline Alluvium) 1. 2.272,3.3.4) 2.00 2.93 Very soft grey locally mottled orangish brown slightly gravelly CLAY. Gravel is angular fine of mudstone. (Estuarline Alluvium) 1. 2.273,3.4.5) (1.19) Spongy black fibrous PEAT. (Peat) (PEAT) 1. 2.7 (PEAT) 1. 3. 3. 4. 3. 3. 4. 3. 4. 3. 3. 4. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	Client:				Gro (m)	ound Level AOD):	4.93	Log	ged By:	DH	200	10.00	1:50	
1.00 - 1.45	1	Well	Water Strike(s)		-					Legend		Stra	tum Description		s
1.00 - 1.45	ws=14 5.31 -0.38 ws=14 5.31 -0.38 ws=14 7.10 -1.57 ws=12 7.10 -2.17 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.57 -3.5		Ourke(s)	Depth (m)	Туре	Results	1 ' '	(111)	`	,	Firm a	rev mottled orangi	sh brown silty CLAY	with occasional	-
1.00	2.2/2,3,3,4) 2.00 2.93 Very soft grey locally motited orangish brown slightly gravelly (LAX Gravel is angular line of mudstone. (Estuarine Alluvium) (TFD) ws=14 5.31 -0.38 2.2/3,3,4,5) 6.50 -1.57 (0.60) -1.57 (0.60) -1.57 (0.60) -2.17 -2.17 -2.17 -2.35 Dense grey slightly sandy subangular to rounded line to coarse GRAVEL of mudstone, slitstone, sandstone and siltstone. (Fluvial Alluvium) (1.90) -2.57 Dense grey slightly sandy subangular to rounded line to coarse GRAVEL of mudstone, slitstone, sandstone and siltstone. (Fluvial Alluvium)						0.00				rootlet	s. (Estuarine Alluvi	um)		
1.50 D4 D3 SPT(S) N=12 (2.2/2.3.3.4) 2.00 2.93 Very soft grey locally mottled orangish brown slightly grac CLAY. Gravel is angular fine of mudstone. (Estuarine (IFD)) 3.00 - 3.45 U6 Blows=7 3.50 D7 3.50 D8 3.50 D8 3.50 SPT(S) N=1 (1,0/0,1,0,0) (3.31) 4.50 D9 5.00 - 5.45 U10 Blows=14 5.50 SPT(S) N=15 (2,2/3,3,4,5) (1.19) Spongy black fibrous PEAT. (Peat) Spongy black fibrous PEAT with coarse graver sized pockets of soft grey slipy clay. (PeAT) 7.00 U14 Blows=12 7.10 (6.69) SPT(S) N=14 (2,3/4,3,3,4) (1.49) Spongy dark brown amorphous PEAT with coarse graver sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) (FPAT) Sized pockets of soft grey slipy clay. (PeAT) Sized pockets of soft grey slipy clay. (PeAT) Sized pockets of soft grey slipy clay. (PeAT) Sized pockets of	Very soft grey locally mottled orangish brown slightly gravelly CLAY Gravel is angular fine of mudstone. (Estuarine Alluvium) Wes=14 5.31 -0.38 (1.19) -1.57 (0.60) -1.57 (0.60) -1.57 (0.80) -3.57 -3.57 Dense grey slightly sandy subangular to rounded fine to coarse GRAVEL of mudstone, sandstone and slitstone. (FiLUV)			1.00 1.00	D1 U002	Blows=16		(2.00)							
2.50 D5 3.00 - 3.45 U6 Blows=7 3.50 D7 3.50 D8 3.50 SPT(S) N=1 (1,0/0,1,0.0) 4.50 D9 5.00 - 5.45 U10 Blows=14 5.50 D12 5.50 SPT(S) N=15 (2,2/3,3,4.5) 6.50 D13 6.50 C.50 C.50 D13 C.50 C.50 C.50 D15 C.50 D15 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D16 C.50 D1	Alluvium) (TFD) ws=14 5.31 -0.38 2,2/3,3,4,5) (1.19) 5,31 -1.57 (0.60) -1.57 (0.60) -1.57 -1.64 -2.17 -2.17 Dense grey slightly sandy subangular to rounded line to coarse (RAVEL of mudstone, silfstone, sandstone and limestone with medium cobble contents. Sand is fine to coarse. Cobbles are subrounded of sandstone and siltstone. (FLUV)			1.50 1.50	D4 D3	N=12 (2,2/2,3,3,4			2.93		Very s	soft grey locally mo	ottled orangish brow	n slightly gravelly	
3.00 - 3.45	5.31 -0.38 Spongy black fibrous PEAT. (Peat) (1.19) Spongy black fibrous PEAT. (Peat) (PEAT) (0.60) Spongy dark brown amorphous PEAT with coarse gravel slike, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle, alle,				_						Alluviu	Gravel is angular f m)	fine of mudstone. (E	Estuarine	
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5.00 - 5.45 U10 Blows=14 5.50 D12 SPT(S) N=15 (2,2/3,3,4,5) 6.50 D13 6.50 7.00 U14 Blows=12 7.10 7.00 ES014 7.50 D15 7.50 D16 7.50 SPT(S) N=14 (2,3/4,3,3,4) 8.50 W17 N=44 (7,9/9,11,12,12) 9.00 B018 9.00 - 9.50 B18	2.2/3,3,4,5) 5.31 -0.38 Spongy black fibrous PEAT. (Peat)			3.50	D8	N=1 (1,0/0,1,0,0)		(3.31)							
5.50 SPT(S) N=15 (2,2/3,3,4,5) 6.50 D13 6.50 D13 6.50 D13 7.00 U14 From grey silty organic CLAY. (Estuarine Aluvium) 7.50 D15 7.50 D16 7.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT(S) 8.50 SPT	2.2/3,3,4,5) 5.31 -0.38 Spongy black fibrous PEAT. (Peat)			4.50	D9										
5.50 D12 SPT(S) N=15 (2,2/3,3,4,5) 6.50 D13 6.50 D13 6.50 D13 7.00 U14 Blows=12 7.10 7.50 D15 7.50 D16 7.50 SPT(S) 8.50 SPT(S) N=14 (2,3/4,3,3,4) 8.50 SPT(S) N=14 (2,3/4,3,3,4) 8.50 SPT(S) N=44 (7,9/9,11,12,12) 9.00 B018 9.00 9.50 B18	2,2/3,3,4,5) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19) (1.19)			5.00 - 5.45	U10	Blows=14	5.04		0.00						
6.50 D13 6.50	-1.57 Spongy dark brown amorphous PEAT with coarse gravel sized pockets of soft grey silty clay. (Peat) (PEAT) Spongy dark brown amorphous PEAT with coarse gravel sized pockets of soft grey silty clay. (Peat) (PEAT) Firm grey silty organic CLAY. (Estuarine Aluvium) (TFD) Spongy dark brown amorphous PEAT with coarse gravel sized pockets of soft grey silty clay. (Peat) (PEAT) Firm grey silty organic CLAY. (Estuarine Aluvium) (TFD) Spongy dark brown amorphous PEAT with coarse gravel sized pockets of soft grey silty clay. (Peat) (PEAT) Firm grey silty organic CLAY. (Estuarine Aluvium) (TFD) Spongy dark brown amorphous PEAT with coarse gravel sized pockets of soft grey silty clay. (Peat) (PEAT) Firm grey silty organic CLAY. (Estuarine Aluvium) (TFD) Spongy dark brown amorphous PEAT with coarse gravel sized pockets of soft grey silty clay. (Peat) (PEAT)					N=15 (2,2/3,3,4,5		(1.19)	-0.38	عالاد عالاد ، قد عالاد عالاد عالاد عالاد ، قد عالاد عالاد عالاد عالاد ،			AT. (Peat)		
7.00 U14 Blows=12 7.10	ws=12 7.10 -2.17 -2.17 Firm grey silty organic CLAY. (Estuarine Aluvium) (TFD) -3.57 Dense grey slightly sandy subangular to rounded fine to coarse GRAVEL of mudstone, siltstone, sandstone and limestone with medium cobble content. Sand is fine to coarse. Cobbles are subrounded of sandstone and siltstone. (Fluvial Alluvium) (FLUV)			6.50	D13		6.50	 	-1.57	مالاد مالاد م لاد مالاد مالاد ببلد ببلد ب	Spana	u dark brown amai	rnhous DE AT with o	oorno gravol	
7.00	Pursuppose the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second stat							(0.60)		21/6 21/6 2 6 21/6 21/6	sized p	ockets of soft grey		oaise gravei	
7.50 D16 SPT(S) N=14 (2,3/4,3,3,4) (1.40) 8.50 W17 SPT(C) N=44 (7,9/9,11,12,12) 9.00 B018 9.00 - 9.50 B18 (9.00 - 9.50 B18) 9.00 B18 (Fluvial Alluvium)	N=44 (11,12,12) (1.90) -3.57 Dense grey slightly sandy subangular to rounded fine to coarse GRAVEL of mudstone, siltstone, sandstone and limestone with medium cobble content. Sand is fine to coarse. Cobbles are subrounded of sandstone and siltstone. (Fluvial Alluvium) (FLUV)					Blows=12	7.10		-2.17			rey silty organic Cl	LAY. (Estuarine Aluv	vium)	-
8.50 SPT(C) N=44 (7,9/9,11,12,12) 9.00 B018 9.00 - 9.50 B18 One of the first standard substance and siltsto coarse. Cobbles are subrounded of sandstone and siltsto coarse. Cobbles are subrounded of sandstone and siltsto (Fluvial Alluvium)	N=44 ,11,12,12) (1.90) Coarse GRAVEL of mudstone, siltstone, sandstone and limestone with medium cobble content. Sand is fine to coarse. Cobbles are subrounded of sandstone and siltstone. (Fluvial Alluvium) (FLUV)			7.50	D16	N=14 (2,3/4,3,3,4		(1.40)							
9.00 B018 coarse. Cobbles are subrounded of sandstone and siltsto (Fluvial Alluvium)	coarse. Cobbles are subrounded of sandstone and siltstone. (Fluvial Alluvium) (FLUV)						8.50		-3.57		coarse	GRAVEL of muds	tone, siltstone, sand	dstone and	
	Continued on next sheet							(1.90)			coarse (Fluvia	e. Cobbles are sub al Alluvium)			
10.00 D19 Continued on next sheet				10.00	D19							Conti	nued on next sheet		

Cable Percussive boring complete at 11.50m. 2. Borehole grouted upon completion.

(Groundwate	er	Chiselling				
Strike Depth (m)	Casing Depth (m)	Level After 20 Mins (m)	Duration (Mins)	Top Depth (m)	Base Depth (m)		
8.50	8.50	5.20	00:50 01:00	9.10 11.20	9.30 11.50		



DDC
KP5

Borehole No.

SBHL01 CP Sheet 2 of 2

Project Name:	M4 CaN (Temp)	Co-ordinat	es:	Date(s):	11/12/2007 - 12	Hole Type:	
Project No:	JER6591-Temp	Easting:	339456	Drilling Method:			CP
Location:		Northing:	185700	Dando	(mm)	Casing Depth (m)	Scale:
Client:		Ground Level (mAOD):	4.93	Logged By: DH	200	10.50	1:50

Client:					Ground Level (mAOD): 4.93 Logo			ged By: DH 200 10.50 1:50			1:50		
Well	Water Strike(s)	Sam Depth (m)	ples & In	Situ Testing Results	Depth (mbGL	Thickness (m)	Level (mAOD)	Legend		Strate	um Description	,	Scale
		10.50 10.50 10.50 11.00 11.00 11.00 11.50 11.50	U021 D20 U21 D23 D22 SPT(S)	Blows=11 50 (25 for 95mm) 50 (25 for 10mm for 15mm)	10.40 m/50	(1.10)	-5.47		Very sti Gravel Mudsto (MMG)		eenish grey slightly nedium of mudstor tone Group) Borehole at 11.50m	gravelly CLAY. le (Weathered	11
													13 —
													14 —
						1							16 —
													18 —
													19

Cable Percussive boring complete at 11.50m. 2. Borehole grouted upon completion.

(Groundwate	er	Chiselling				
Strike Depth (m)	Casing Depth (m)	Level After 20 Mins (m)	Duration (Mins)	Top Depth (m)	Base Depth (m)		
8.50	8.50	5.20	00:50 01:00	9.10 11.20	9.30 11.50		



DDC
RES

Borehole No.

SBHL02 CP

Sheet 1 of 2

										_
Project Name	: M4 CaN (Temp)	Co-ordinates:				Date(s):	06/12/2007 - 0	Hole Type	e:	
Project No:	JER6591-Temp	Easting	g:	339805	Drilling Me	thod:			CP	
Location:		Northir	ng:	185767	Dand	lo	(mm)	Casing Depth (m)	Scale:	
Client:			Level :	6.52	Logged By: DH		200	12.00	1:50	
	Complex 9 In City Testing									

Client:				(Ground Level mAOD):	6.52	Log	ged By:	DH	200	12.00	1:50	
Well	Water Strike(s)	Sam Depth (m)	ples & In	Situ Testing Results	Depth (mbGL)	Thickness (m)	Level (mAOD)	Legend		Strat	um Description	,	Sca
		1.00 - 1.45 1.00 1.50 1.50 1.50 2.00	U2 D1 D3 D4 SPT(S)	Blows=14 N=6 (1,2/2,2,1,	0.00	(4.10)	6.52		sandy: of mud (TFD)		ĀY. Gravel is angī Alluvium)	gish brown slightly ular fine to coarse	1
		3.00 3.00 - 3.45 3.00 3.50 3.50 3.50	D6 U7 U007 D8 D9 SPT(S)	Blows=12 N=5 (2,2/1,2,1,	1)	(4-10)							3
		5.00 5.00 5.50 5.50 5.50 6.00	D10 U12 D11 D14 D13 SPT(S) D15	Blows=5 N=1 (1,0/0,1,0,0	4.10	(2.40)	2.42		spaced		AY with very close kets of black amor		
		6.50 - 7.00 6.50 7.00	B16 B016	= = = = = = = = = = = = = = = = =	6.50	 	0.02	te salte salte salte salte s te salte salte salte salte s	Spong (PEAT)	y black psuedofibre	ous PEAT. (Peat)		
		7.00 - 7.45 7.00 7.00 7.00 7.50 7.50 - 7.95 7.50 8.00 8.00	U18 U018 ES018 ES017 D19 D20 SPT(S) ES021 D21	Blows=12 N=14 (2,2/3,5,3	3) 7.90	(1.40)	-1.38	to allee allee allee allee to allee allee allee allee allee allee allee allee allee allee allee allee allee allee	Soft gre		sional coarse grav dofibrous locally fib		8
		9.00 - 9.45 9.00 9.50 9.50 9.50	U23 D22 D25 D24 SPT(S)	Blows=10 N=23 (3,4/4,6,6	9.30	(1.40)	-2.78		angula	r fine to coarse of a Mudstone Group	ightly gravelly CLA mudstone (Weathe) nued on next sheet		1
emarks							<u></u>	roundwa	tor		Chiselling		

Cable Percussive boring complete at 12.60m. 2. Borehole grouted upon completion.

(Groundwate	er	Chiselling					
Strike Depth (m)	Casing Depth (m)	Level After 20 Mins (m)	Duration (Mins)	Top Depth (m)	Base Depth (m)			
10.80	10.50	10.80	01:00	12.10	12.50			



	RP	S		-	В	OR	EHC	DL	ΕL	OG	}		Sheet 2 of	СР
Project	t Name	e: M4 Ca	N (Tem	p)	Co-d	ordinate	es:		[7/12/2007	Hole Typ			
Project	t No:	JER65	91-Tem	 р	Easti	ng:	339805	D	rilling Met	hod:			СР	
Location	on:				North	ning:	185767		Dando)	Casing Diameter (mm)	Casing Depth (m)	Scale:	
Client:					Groun (mAOI	d Level D):	6.52	Log	ged By:	DH	200	12.00	1:50	
Well	Water			Situ Testing		Depth	Thickness	Level	Legend		Strat	um Description		Scale
	Strike(s)	Depth (m)	Туре	Results		(mbGL)	(m)	(mAOD)		;				
		11.00 - 11.45 11.00 11.00 11.50 - 11.90 11.50 12.00 12.50 12.50	U28 U028 D27 D30 D29 SPT(S) D31	50 (8,15/50) 170mm) 50 (25 for 20m for 45mm)	for m/50		(3.30)				End of	Borehōle at 12.60m		11 —
														18 —

Remarks

1. Cable Percussive boring complete at 12.60m. 2. Borehole grouted upon completion.

(Groundwate	er	Chiselling				
Strike Depth (m)	Casing Depth (m)	Level After 20 Mins (m)	Duration (Mins)	Top Depth (m)	Base Depth (m)		
10.80	10.50	10.80	01:00	12.10	12.50		



20 -

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ROTARY BOREHOLE LOG

Borehole No.

SBHL02 RC

							Sheet 1 of 3
Project Name:	M4 CaN (Temp)	Co-ordinate	es:	Date(s)	Hole Type:		
Project No:	JER6591-Temp	Easting:	339806	Drilling Method:			RC
Location:		Northing:	185767	Dando Tractor	Casing Diameter (mm)	Casing Depth (m)	Scale:
Client:		Ground Level (mAOD):	6.53	Logged By: DH	121	11.20	1:50

:lient				I .	(OD):	6.53	Log	ged By:	DΗ			1:50	
Well	Water Strike(s)	Sam Depth (m)	ples & In S	Situ Testing Results & Coring	Depth (mbGL)	Thickness (m)	Level (mAOD)	Legend		Stratun	n Description		Sca
					1.00	(1.00)	6.53 5.53		(OH-OH	grey CLAY. (Driller S			1
						(2.30)							2
					3.30	(1.70)	3.23	23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4% 23/4%	PEAT. (OH-OH	Driller & description)			3
					5.00	(1.20)	1.53	a silea silea si silea silea si a silea silea silea silea silea a silea silea a silea silea a silea silea	Grey bl (OH-OH	ue CLAY. (Driller & de H)	escription)		- 5
	 !				6.20	 	0.33	مثالاد مثالاد م د مثالاد مثالاد مثالاد مثالاد م	PEAT. (Driller & description)			(
						(2.10)							7
					8.30	(2.90)	-1.77	k siller siller siller siller i siller siller siller siller i siller siller siller siller siller siller	Grey C (OH-Oł	LAY. (Driller § descrip H)	otion)		3
										Continu	ed on next sheet		10
marks	<u></u>						G	roundwa	ter	Drillir	ng Progress		

1. Rotary Openhole drilling from GL to 11.20m. 2. Rotary Coring from 11.20m to 20.30m. 3. 19mm piezometer installed, tip at 15.20m, with response zone from 14.80m to 15.40. 4. 0.00 indicates openhole drilling.

Strike Depth (m) Casing Depth (m) (m) Mins (m) Depth Remarks
12.00 11.20 11.20 14.90 Start of Shift End of Shift End of Hole



	RPS
_	

ROTARY BOREHOLE LOG

Borehole No.

SBHL02 RC

									Sheet 2 of 3	3
Project	Name	e: M4 CaN (Temp)	Co-ordinat	es:	Da	ate(s): 1	1/12/2007 - 12	2/12/2007	Hole Type	e:
Project	No:	JER6591-Temp	Easting:	339806	Drilling Metho	od:			RC	
Locatio	n:		Northing:	185767	Dando Trac	ctor	(mm)	Casing Depth (m)	Scale:	
Client:			Ground Level (mAOD):	6.53	Logged By: D	ЭН	121	11.20	1:50	
		Complex 9 In City Testing								

lient:				AOD):	6.53	Log	ged By:	DH			1:50	
Well Water Strike(s) Dep	Samp oth (m)	oles & In S Type & FI	Situ Testing Results & Coring	Depth (mbGL)	Thickness (m)	Level (mAOD)	Legend		Strat	tum Description		Sca
Well Water Strike(s) Dep 11.20 12.20 12.20 13.20 14.00 14.00 14.00 14.11 14.00 15.15 16.00 16.00	- 12.20 - 13.20 2.20 2.20 2.20 2.20 2.20 2.20 2.10 2.20 2.20 2.20 2.20 2.20 2.20 2.10 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	Type & FI C1 C007 C7 C001	Situ Testing Results & Coring 100 (25 for 0mm/10 for 0mm) RQD: 0 TCR: 34 SCR: 0 RQD: 0 TCR: 100 SCR: 28 100 (25 for 75mm/100 for 75mm) RQD: 0 TCR: 74 RQD: 0 TCR: 74 SCR: 47	Depth (mbGL)	Thickness	Level		Zone of (NR) Extrem greeni as nor gravel (MMGfrom 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from 10from	nely weak to weak ish grey locally gree intact core (angula sized fragments). () In 12.54m to 13.20m Teak to weak reddiscally greenish grey gextremely closely to smooth. 2) 60 - 8 ting rough and smooth. 21 60 - 8 ting rough and smooth. 21 60 - 8 ting rough and smooth. 21 60 - 8 ting rough and smooth. 21 60 - 8 ting rough and 14.00m to 14.10m lar medium to coarse in 14.50m to 14.58m lar fine to coarse grain 14.63m to 14.67m to 14.90m in 15.18m to 16.59m tone	reddish brown local enish grey MUDSTORE (Drill ar to subangular me (Mercia Mudstone of MUDSTONE). Discovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gravel sized fragments, recovered as non in the gra	lly mottled ONE. Recovered edium to coarse Group) ore loss attled greenish continuities: 1) 0 d undulating widely spaced tone Group) tact core ents) tact core ents) tact core ents) tact core ents) fact core fore loss f greenish grey	113 13 14
17 17 18.00 18.00	7.00 7.00 7.00 - 20.30 8.00 - 20.30	C10 ES010	RQD: 21 TCR: 95 SCR: 60 RQD: 19 TCR: 100 SCR: 63		(6.55)			(angufron (angufron (angufron (angufron (angufron (angufron (angufron (angufron (angufron (angufron (angufron (angufron (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu (angu 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lar fine to coarse gran lar fine to coarse gran lar fine to coarse gran lar fine to coarse gran lar fine to coarse gran lar fine to coarse gran lar fine to coarse gran lar	recovered as non in avel sized fragments, recovered as non in ravel sized fragment recovered as non in ravel sized fragment assumed zone of correcovered as non in ravel sized fragments, recovered as non in ravel sized fragments, recovered as non in ravel sized fragments, recovered as non in ravel sized fragments, recovered as non in ravel sized fragments, recovered as non in ravel sized fragments, recovered as non in ravel sized fragments, recovered as non in ravel sized fragments, assumed zone of correcovered as non in recovered as non in recovered as non in recovered as non in recovered as non in recovered as non in recovered as non in recovered as non in recovered as non in recovered as non in recovered as non in recovered as non in recovered as non in recovered as non in recovered as non in recovered as non in 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1. Rotary Openhole drilling from GL to 11.20m. 2. Rotary Coring from 11.20m to 20.30m. 3. 19mm piezometer installed, tip at 15.20m, with response zone from 14.80m to 15.40. 4. 0.00*indicates openhole drilling.

(Groundwate	er		Drilling Progress
Strike Depth (m)	Casing Depth (m)	Level After 20 Mins (m)	Depth	Remarks
12.00	11.20		14.90 14.90 20.30	Start of Shift End of Shift End of Hole



DDC
RP\

ROTARY BOREHOLE LOG

Borehole No.

SBHL02 RC

							Sheet 3 of 3
Project Name:	M4 CaN (Temp)	Co-ordinat	es:	Date(s):	11/12/2007 - 1	2/12/2007	Hole Type:
Project No:	JER6591-Temp	Easting:	339806	Drilling Method:			RC
Location:		Northing:	185767	Dando Tractor	Casing Diameter (mm)	Casing Depth (m)	Scale:
Client:		Ground Level (mAOD):	6.53	Logged By: DH	121	11.20	1:50

Client:				Gro (m/	ound Level AOD):	6.53	Log	ged By:	DH	121	11.20	1:50	
Well	Water Strike(s)	Sam Depth (m)	ples & In S	Situ Testing Results & Coring	Depth (mbGL)	Thickness (m)	Level (mAOD)	Legend		Strat	um Description	•	Scale
		Deptii (iii)	Type & FI	results & Colling	((")			(angul fron (angul fron mudst fron	a 19.13m to 19.20m far fine to coarse gra a 19.50m to 19.89m ar fine to coarse gra a 19.61m to 19.89m one a 20.00m to 20.10m ar fine to coarse gra End of	vel sized fragments recovered as non in vel sized fragments 1 no thin bed of gred recovered as non in) tact core) enish grey tact core	21 -
													22 -
													23 -
													24 -
													25 -
						 			l l				26 -
													27 -
													28 -
													29
													30 -

1. Rotary Openhole drilling from GL to 11.20m. 2. Rotary Coring from 11.20m to 20.30m. 3. 19mm piezometer installed, tip at 15.20m, with response zone from 14.80m to 15.40. 4. 0.00"indicates openhole drilling.

(Groundwate	er		Drilling Progress
Strike Depth (m)	Casing Depth (m)	Level After 20 Mins (m)	Depth	Remarks
12.00	11.20		14.90 14.90 20.30	Start of Shift End of Shift End of Hole



	RP	S				-	TRI	AL I	PIT	LC	G		STF Shee
Project	Name	e: M	14 Cal	V (Temp	o)	Co-	ordinate	es:		Г	Date(s):	18/12/2007	Hole
Project	Project No: JER6591-Temp						ing:	338514		Equipme	nt:	Orientation: 262°	Т
Locatio	n:					Northing:		185603		JCB 3C	X	Pit Length: 3.42 m	Sca
Client:						Ground Level (mAOD):		5.58	Log	Logged By: GS		Pit Width: 0.72 m	1:
Backfill	Water Strike(s)	Depth		oles & In S Type	Situ Testing Results		Depth (mbGL)	Thickness (m)	Level (mAOD)	Legend		Stratum Description	
					0.00		5.58		Gravel coarse conten	GROUND: Light reddish brown very gr. sized fragments are subangular to ang of clinker, concrete, brick and slag. Wit t, cobble sized fragments are subangul	ular fine to th low cobb		

	0.34 0.34 0.34 0.60	ES1 L001 ES001			(0.84)		Gravel sized fragments are subangular to angular fine to coarse of clinker, concrete, brick and slag. With low cobble content, cobble sized fragments are subangular of clinker, concrete, brick and slag. (MG)	
	1.20	B005		0.84		4.74	Soft to firm light grey mottled brown CLAY with frequent roots and rootlets up to 2mm diameter. (Estuarine Alluvium) (TFD)	1 —
	1.20 1.20 - 1.27 1.27 1.27 1.27 1.27 1.27 1.27	ES005 B5 ES3 ES003 D4 IVN03 IVN01 IVN02	55kPa 60kPa 55kPa		(2.00)			
	2.00 - 2.30	B8						2 —
	2.30 2.31 2.31 2.31 2.31	D7 ES6 IVN05 IVN06 IVN04	15kPa 20kPa 20kPa	2.84		2.74		- - - - - - - - -
	3.00 3.00 - 3.30	ES011 B11		2.04	(0.52)	2.74	Very soft light grey slightly silty CLAY with occasional pockets of dark brown black organic matter and rare roots and rootlets up to 6mm in diameter. (Estuarine Alluvium) (TFD)	3 —
	3.30 3.36	D10 ES9					 End of Pit at 3.36m	
	# # # # # # # # # # # # # # # # # # #			H H				- - - - -
								4
	1	į į				•		5 —

Remarks:

1. Trial pit complete at 3.36m.

Groundwater:

Stability: All faces stable



Pit No.

STPK01

Sheet 1 of 1

Hole Type:

TP

Scale:

1:25

Scale

DDC
RFS

TRIAL PIT LOG

Pit No.

STPK02

Sheet 1 of 1

Project Name:	M4 CaN (Temp)	Co-ordinat	tes:	Date(s):	Hole Type:		
Project No:	JER6591-Temp	Easting:	338872	Equipment:		TP	
Location:		Northina:	185642	JCB 3CX	Pit Length: 4 44 m	Scale:	

 Northing:
 185642
 JCB 3CX
 Pit Length: 4.44 m
 Scale:

 Ground Level (mAOD):
 6.04
 Logged By: GS
 Pit Width: 0.75 m
 1:25

Client:					Ground Level (mAOD):	6.04	Log	ged By:	GS	Pit Width: 0.75 m	1:25	
Backfill	Water Strike(s)		1	Situ Testing	Depth (mbGL)	Thickness (m)	Level (mAOD)	Legend		Stratum Description		Scale
1		Depth (m) 0.30 0.30 0.30 0.50	L001 ES1 ES001 D2	Results	0.00	(1.24)	6.04		coarse clinker	GROUND: Dark brown black slightly gravel sized fragments of concrete, to and slag with with high cobbble conte nts are angular of concrete, slag and	armacadam, ent. Cobble sized	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
		1.24 - 1.34 1.24 1.24 1.24 1.24	B5 D4 ES003 ES3		1.24		4.80		Soft ligi rootlets (TFD)	ht grey mottled brown CLAY with freq s up to 2mm in diameter. (Estuarine Al	uent roots and lluvium)	1
		2.00 - 2.30 2.00 2.24 2.24 2.24 2.30 2.30	B8 ES008 IVN03 IVN01 IVN02 ES6 D7	17kPa 19kPa 19kPa	2.40	(1.16)	3.64		dark br	oft light grey silty CLAY. With occasion own black organic material and occas up to 4mm in diameter. (Estuarine Al	sional roots and	2
		3.00 3.00 - 3.28 3.00 3.28 3.28 3.28 3.28	B011 B11 ES011 ES9 D10 IVN04	0kPa		(1.73)						3
		4.13 4.13	D13 ES12							End of Pit at 4.13m		4
Remar		1. Trial pit cor	mplete at 4	1 13m								5 —

Remarks:

Groundwater:

Stability: All faces stable



556
RPS

TRIAL PIT LOG

Pit No. STPL01

Sheet 1 of 1

Scale:

Project Name: M4 CaN (Temp) Co-ordinates: Date(s): 18/12/2007 Hole Type: Project No: 339528 TP JER6591-Temp Easting: Equipment:

Location: Northing: 185721 JCB 3CX Pit Length: 3.50 m Ground Level (mAOD): Client:

Pit Width: 0.45 m 1:25 5.15 Logged By: GS

ent:	, , , , , , , , , , , , , , , , , , , ,		, ,					Pit Width: 0.45 m 1:25			
ckfill	Water Strike(s)	Sam Depth (m)	ples & In S	Situ Testing Results	Depth (mbGL)	Thickness (m)	Level (mAOD)	Legend		Stratum Description	Sc
\longrightarrow		Deptil (III)	Туре	Nesuits	0.00		5.15	X//XX4/X	TOPSO	DIL.	
					0.16	(0.16)			(TOP)		
					0.16		4.99		Soft lig	ht grey mottled brown silty slightly sandy CLAY. With	
		0.31	ES1						Alluviu	nt roots and rootlets up to 2mm diameter. (Estuarine	
									(TFD)	,	
		0.54 0.54 - 1.00	D2 B3					-=-=			
	 	0.54	i ES003 i		ì	1 I					1
ļ	!	0.54	B003		!	! !					!
i	i					i i					- 1
		1.00 - 1.39	B6								
		1.00 - 1.39	БО			(1.72)					
ı	į.	1.15	IVN03	14kPa	!	i i					- !
ì	ì	1.15	IVN02	15kPa	ì						i
		1.15	IVN01	15kPa							
		1.39 1.39	D5 ES4								
		1.39	L34								
								-=-=			
		1.88 - 2.22	B9		1.88		3.27		Very so	oft grey silty slightly sandy CLAY. With frequent	=
		1.88 1.88	ES009 B009						pockets	s of dark brown black organic material and frequent	
		1.00	2000						roots a Alluviu	nd rootlets up to 4mm in diameter. (Estuarine	
		2.20	D8						(TFD)	····)	
		2.22	ES7						,		
		2.22 2.22	IVN05 IVN06	10kPa 10kPa							
		2.22	IVN04	8kPa							
			D.10								
		3.00 - 3.69	B12			(2.31)					
ļ	ı		!!!		1	! '					
į			į į			ļ					- į
1			1 1			1					1
ı											
1		3.60	D11								
,	i	3.69	ES10		1	,					1
	:	4.00 - 4.19	B15		i	;					
		4.19	D14							End of Pit at 4.19m	_
		4.19	ES13								
			1			1					
			j i						i		1
						<u> </u>		į į			- !

Remarks:

1. Trial pit complete at 4.19m.

Groundwater:

Stability: All faces stable

Geotechnical Engineering Limited

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

SITE M4 CORRIDOR AROUND NEWPORT Sheet 1 of 3

Start Date 24 February 2015

Easting 338301.6 Scale 1:50

End Date 26 February 2015

185578.3 Ground level Northing

5.95mOD

Depth 22.70 m

progress date/time water depth	no & type	depth (m)	depth (m)	test type & value	samp. /core range	If	instru -ment	description	depth (m)	reduced level (m)	legei
24/02/15 0800hrs	, , , , , , , , , , , , , , , , , , ,		_					Large slag BOULDERS (Driller's description). (MG)	-		
									-		XX
										-	\bowtie
	1D 2B	1.00 - 1.45 1.00 - 1.50	- 1.00	S 5					1.00	4.95	\otimes
	3D*	1.00 - 1.20	-	Vo 0.2				Soft dark grey slightly gravelly silty CLAY. Gravel is	_		
	4D 5B	1.50 - 1.95	1.50	S 8				angular and subangular fine to coarse brick, slag and limestone. (MG)	1.30	4.65	
	6D*	1.50 - 2.00 1.50 - 1.70	-	Vo 0.2				Stiff yellowish brown and grey slightly gravelly silty sandy	-	1	\bowtie
			E					CLAY. Gravel is angular and subangular fine to coarse	-	-	\bowtie
	7B 8D*	2.00 - 2.50 2.00 - 2.20	_	Vo 0.2				slag and limestone. (MG)	-	-	\bowtie
			_						-	1	\otimes
24/00/45	9UT	2.50 2.50 - 2.95	2.50	V 36				Very soft dark grey slightly sandy silty CLAY. (TFD)	2.50	3.45	$\stackrel{\times}{\times}$
24/02/15 1630hrs	11D*	2.75 - 3.00	- 2.00	Vo 0.0				2.54m: Low strength.	-	1	
1.50m 25/02/15	10D	2.95 - 3.05	_	VO 0.0					_		
0800hrs	12D	3.00 - 3.45 3.00 - 3.50	3.00	S<1					-		<u>×</u>
	13B 14D*	3.00 - 3.50	-	Vo 0.0					-	1	×
	15B 16D*	3.50 - 4.00 3.50 - 4.00	-	Vo 0.0					-	-	
		3.95	_	V 36					_	-	
	17P	4.00 - 5.00	- 4.00					3.95m: Low strength.	-		<u> </u>
					P/S				-	-	<u>×</u> _
					/ 0				-		<u>×</u>
			F						-	1	×
	18B	5.00 - 5.50	E						-		
		5.55	_	V 10					-		<u> </u>
	19P	5.50 - 6.50	5.50					5.55m: Extremely to very low strength.	-		<u>×</u> _
			E		D (C				-	-	<u>×</u>
			_		P/S				-	-	
			E						-	-	<u> </u>
	20B	6.50 - 7.00	-						=	1	
			Ė						-	1	×
	21P	7.10 7.00 - 7.60	7.00	V 12					-	-	
25/02/15 1700hrs		7.00	- 7.00		P/S			7.10m: Very low strength.	-	1	
NR			Ė						7.60	-1.65	<u> </u>
26/02/15 0800hrs			Ē					Very soft grey silty CLAY interbedded with firm dark brown	-		
JOUUIIIS			-					fibrous PEAT. (PEAT)	{8.00}		_1/

EQUIPMENT: Light cable percussive (shell and auger) rig and Geotechnical Pioneer rig. METHOD: Cable percussion (200mm) 0.00-2.00m and (150mm) 2.00-12.20m. Waterflush rotary core drilled (116mm) 12.20-22.70m. CASING: 200mm diam to 2.00m, 150mm diam to 12.20m.

BACKFILL: On completion, borehole backfilled with bentonite pellets 22.70-11.80m. A slotted standpipe (50mm) with geo-sock was installed to 11.60m, granular response zone 11.80-9.80m and bentonite seal 9.80-2.80m. A second slotted standpipe (35mm) with geo-sock was installed to 2.60m, granular response zone 2.80-0.50m, bentonite seal 0.50-0.25m, concrete and stopcock cover 0.25-0.00m.

REMARKS: Hole advanced by chiselling 0.00-1.00m (1hr10mins) and 10.90-12.20m (2hr). Downhole magnetometry for UXO risk mitigation undertaken 0.00-11.00m. No anomalies encountered. Bentonite seal for aquifer protection installed during drilling 1.00-2.00m, prior to reduction in casing diameter. Permeability test undertaken at 7.00m-8.00m.

MMG = Mercia Mudstone Group. Weathering zone after Chandler RJ and Forster CIRIA C570; Engineering in Mercia Mudstone (2001).

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) AGS CONTRACT **CHECKED** 1.50 1.50 1.30 20 Medium flow. 30238 EC

Geotechnical Engineering Limited

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

EC

1:50

SITE M4 CORRIDOR AROUND NEWPORT Sheet 2 of 3

Start Date 24 February 2015 338301.6 Easting

Scale

26 February 2015 Ground level 5.95mOD **End Date** Northing 185578.3 Depth 22.70 m depth reduced legend progress sample depth (m) test instru samp type & date/time /core I_f description (m) level no & depth -ment water depth value (m) type from (m) range 22D 8.00 - 8.45 8.00 S 15 23B 8.50 - 9.00 24UT 9.50 - 9.95 9.50 10.10 25D 9.95 - 10.05 10.10 - 10.20 26D Stiff dark reddish brown slightly gravelly CLAY. Gravel is subangular and subrounded fine and medium sandstone and siltstone. (RTD) 27B 10.50 - 11.00 11.00 - 11.45 - 11.00 S 39 28D 29B 11.50 - 12.20 26/02/15 1620hrs 5.90m 30D 12.10 S*113 12.20 - 12.43 27/02/15 0915hrs 97 NΑ 31C 12.20 - 12.50 7.87m 100 32C 12.50 - 13.70 12.10 12.90 - 13.05m: Light greenish grey. 13.70 -7.75 13.60 - 13.70m: Light greenish grey. 100 33C 13.70 - 15.20 12.10 Very stiff fissured dark reddish brown very gravelly CLAY. Gravel is subangular and subrounded fine and medium lithorelicts of extremely weak mudstone. Fissures are subhorizontal to 20° and subvertical extremely closely spaced. (MMG) (Grade III) 14.80 -8.85 Stiff fissured reddish brown gravelly CLAY. Gravel is angular and subangular fine and medium lithorelicts of extremely weak mudstone and very stiff clay. Fissures are 100 19 0 34C 15.20 - 16.70 -12.10 subhorizontal to 20° very closely spaced planar smooth. (MMG) (Grade III) 15.60 ⁻ -9.65 NI 40 80 15.55 - 15.70m: 70° to subvertical planar smooth. Weak thinly laminated reddish brown MUDSTONE with rare light greenish grey reduction spots (up to 20mm). Fractures are subhorizontal to 20° and subvertical very closely and closely spaced planar smooth. (MMG) (Grade 1/11) 15.60 - 16.20m: Light greenish grey. 93 5 0 35C 16.70 - 18.20 -12.10 15.70 - 15.80m: Tending to light greenish grey clay. 16.20 - 16.30m: Tending to reddish brown clay. 16.70 - 17.10m: Tending to light greenish grey clay. 17.30 - 17.40m: Tending to reddish brown clay. 17.50 - 17.60m: Tending to reddish brown clay. 17.60 - 18.20m: Subvertical fracture. {18.00} Continued Next Page AGS CONTRACT **CHECKED** water strike (m) casing (m) rose to (m) time to rise (m) 30238

30238 YODA GPJ TRIALJH GPJ GEOTECH GLB 16/07/2015 16:02:49 MC Geotechnical Engineering Ltd, Tel. 01452 527743

EC

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

3 of 3

SITE M4 CORRIDOR AROUND NEWPORT

> Scale 1:50

Start Date 24 February 2015 26 February 2015 **End Date**

Easting 338301.6

> > 30238

EC

Sheet

End Date	26	Februa	ary 20	015		Nortl	hing	18	5578.3 Ground level	5.95mOD	Depth	22	2.70 m
progress date/time water depth	sample no & type	depth from	(m) to	casing depth (m)	test type & value	samp. /core range	If	instru -ment	descriptio	n	depth (m)	reduced level (m)	legend
	36C			12.10		100 62 37 100 100 61	80 120 400		Very weak and weak thinly lamina MUDSTONE with rare light green (up to 20mm). Fractures are subh subvertical closely and medium s (MMG) (Grade I/II) 19.20 - 19.25m: 20° fracture with a brown clay.	ish grey reduction spots orizontal to 20° and paced planar smooth.	18.60	-12.65	
	38C	21.20 -	22.70	- - - - - 12.10		100 90 57			21.25 - 21.80m: 80° to vertical fra 22.00 - 22.40m: Tending to reddis				
27/02/15 1420hrs 2.60m									22.40m: Calcite crystals (up to 20 Borehole completed at 22.70m.		22.70	-16.75	
water strike	(m) casi	ng (m)	rose to		me to ris	se (m)	rema	arks		AGS CONTE	[28.00]	CHEC	CKED

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BOREHOLE LOG



CLIENT WELSH GOVERNMENT

SITE M4 CORRIDOR AROUND NEWPORT Sheet

1 of 2

1:50

Start Date 3 March 2015 Easting 338509.4 Scale

End Date 9 March 2015 Northing 185587.2 Ground level 5.95mOD Depth 17.70 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I _f	instru -ment	description	depth (m)	reduced level (m)	legend
03/03/15 1100hrs	1B	0.20 - 0.50						SLAG (Driller's description). (MG)	0.20	5.75	
TTOOTIIS	2D* 3B	0.20 - 0.50 0.50 - 1.00	-	Vo 0.0			15	Orangish brown and grey angular and subangular fine to	-		
	4D*	0.50 - 1.00		Vo 0.0				coarse limestone GRAVEL with low subangular sandstone cobble content. (MG)	-		
		1.00 - 1.45	1.00	C 10					-	-	
03/03/15	5B	1.00 - 1.50	1.45					1.00 - 1.30m: Loose to medium dense.	1.30	4.65	
1700hrs Dry	6D*	1.00 - 1.50	_	Vo 0.0				Firm light grey mottled brown slightly gravelly CLAY.	1.50	4.65	
04/03/15 0800hrs	7UT	1.50 - 1.95	1.50	\/- 0.0				Gravel is angular and subangular fine to coarse limestone. (MG)	-		
Dry	8D* 9D	1.50 - 1.70 2.00 - 2.45	2.00	Vo 0.0 S 4				Very soft light grey mottled brown CLAY. (TFD)	-	-	
	10B	2.00 - 2.50						voly contrigue groy modeca brown certification	-		
	11D*	2.00 - 2.50	-	Vo 0.0					-	1	
	12UT	2.50 - 2.95	2.50						-	1	
	13D	3.00 - 3.45	3.00	S 4					-		
	14D*	3.00 - 3.50	-	Vo 0.0					-	-	
			=						-	1	
	15UT	3.50 - 3.95	3.50	Vo 0.0					-		
	16D* 17D	3.50 - 3.70 4.00 - 4.45	4.00						4.00	1.95	==
	18B 19D*	4.00 - 4.50 4.00 - 4.50		Vo 0.0				Very soft dark grey silty CLAY. (TFD)	-		
	Ian	4.00 - 4.50	_	VO 0.0					-	1	<u></u>
	UT 20B	4.50 - 4.95 4.50 - 5.00	4.50								<u> </u>
	21D	5.00 - 5.45	5.00	S 1					_	1	<u>x</u>
	22B 23D*	5.00 - 5.50 5.00 - 5.50	_	Vo 0.0					-		
	230	3.00 - 3.30	_	VO 0.0					-		
	24B	5.50 - 6.00	-						-		×
			_						-		×
			-						-		×
									0.00	0.05	× -
04/03/15	25D	6.50 - 6.95	6.50	S 10				Firm dark grey peaty CLAY. (TFDP)	6.60	-0.65	
1700hrs 3.50m									7.00	-1.05	<u></u>
05/03/15 0800hrs			_					Firm spongy black PEAT (Driller's description). (PEAT)	-	-	71/71/
2.65m									-	1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	26B	7.50 - 8.00	_						7.70	-1.75	
	27D	8.00 - 8.45	8.00	S 8				Soft dark grey peaty CLAY. (TFDP)	8.00	-2.05	
								Continued Next Page	{8.00}		

EQUIPMENT: Light cable percussive (shell and auger) rig and Geotechnical pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.00m. Cable percussion (200mm) 1.00-11.50m. Waterflush rotary core drilled (140mm) 11.50-17.70m.

CASING: 200mm diam to 11.50m and 140mm diam to 11.70m.

BACKFILL: On completion, hole backfilled with bentonite pellets 17.70-0.40m and gravel 0.40-0.00m.

REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-10.00m. No anomalies encountered.

Permeability test undertaken at 6.00m-7.00m.

MMG = Mercia Mudstone Group. Weathering zone after Chandler RJ and Forster CIRIA C570; Engineering in Mercia Mudstone (2001).

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

2.50 2.50

2.10

20

AGS

CONTRACT

CHECKED

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

BH526

SITE M4 CORRIDOR AROUND NEWPORT

Sheet 2 of 2

Start Date 3 March 2015

Easting 338509.4

Scale 1:50

End Date 9 March 2015 Northing 185587.2 Ground level 5.95mOD Depth 17.70 m

progress date/time	sample	depth (m)	casing	test	samp.		instru		depth		Ι.
	na 0						motru			reduced	legen
ater depth	no & type	from to	depth (m)	type & value	/core range	If	-ment	description	(m)	level (m)	
	28B	8.00 - 8.50	()	74.40	. ugo			Firm block floores DEAT (DEAT)		()	<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>
	200	8.00 - 6.50	_					Firm black fibrous PEAT. (PEAT)]		1, 11,
			_						8.50	-2.55	
	29B	8.50 - 9.00	_					Soft dark grey peaty CLAY. (TFDP)			
			L]		<u>_1/</u> -
									-		
]		/
	30D	9.50 - 9.95	9.50	S 18					9.50	-3.55	
	31B	9.50 - 10.00						Stiff dark reddish brown slightly gravelly CLAY. Gravel is] -		
			_					subangular fine to coarse mudstone lithorelicts. (MMG)			
	32D	10.00 - 10.45	_ 10.00	S 43				10.00 11.70m; Vory etiff	_		
	020	10.00 10.40	- 10.00	0 40				10.00 - 11.70m: Very stiff.	_		
	33B	10.50 - 11.00	_								
			_								
E/02/4E			_								
5/03/15 700hrs			-								
.15m	_		-								
9/03/15 040hrs	34D		- 11.50	S*81	100				11.70	-5.75	
83m	35C	11.70 - 13.20	11.70		100			Stiff dark reddish brown slightly gravelly CLAY. Gravel is			
			_					subangular fine to coarse extremely weak mudstone lithorelicts of very stiff clay and extremely weak mudstone.			
			-					Fissures are subhorizontal to 20° and subvertical			
			_					extremely closely spaced planar smooth. (MMG) (Grade			
			_					III)			
			-								
			_								
	36C	13.20 - 14.70	11.70		100						
			_								
			-								
			-								
			_						1 7		
			_						1 7		
			F								
	37C	14.70 - 16.20	11 70		100]		
	370	14.70 - 10.20	_ 11.70		44 40]		
]		
			_						15.60	-9.65	
			_			NI 95 300		Weak and medium strong reddish brown MUDSTONE.			
			_			300		Fractures are subhorizontal to 20° and subvertical closely to medium spaced locally non intact planar smooth.			
			-		400			(MMG) (Grade I)			
	38C	16.20 - 17.70	_ 11.70		100 83 20			16.30 - 16.35m: Tending to reddish brown clay.			
			-		20			· ·	=		
			<u> </u>					16.60 - 16.80m: Tending to light greenish grey clay.			
			_					16.60 - 17.40m: Light greenish grey.			
			-					17.00 - 17.10m: 40° fracture planar smooth.			
9/03/15			_								
715hrs .96m			_						17.70	-11 75	
	1		-					Borehole completed at 17.70m.	1	0	
			_						4		
									{18.00}	_	
ater strike	(m) casi	ing (m) rose to	o (m) ti	me to ris	e (m)	rem	arks	AGS CONTR	RACT	CHE	CKE

Geotechnical Engineering Ltd, Tel. 01452 527743 30238 YODA, GPJ TRIALJH, GPJ GEOTECH. GLB 16/07/2015 16:02:54 MC

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BOREHOLE LOG

End Date



CLIENT WELSH GOVERNMENT

12 March 2015

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SITE M4 CORRIDOR AROUND NEWPORT

Scale 1 : 50

Start Date 9 March 2015 Easting 338871.9

Northing

185644.4

Ground level

5.95mOD

Depth 19.10 m

Sheet

progress date/time water depth	sample no & type	depth (m)	casing depth (m)	test type & value	samp. /core range	If	instru -ment	description	depth (m)	reduced level (m)	legend
09/03/15 0800hrs	1B 2D* 3B 4D*	0.20 - 0.50 0.20 - 0.30 0.50 - 1.00 0.50 - 1.00		Vo 0.0	range			Dark grey sandy angular and subangular fine to coarse slag and limestone GRAVEL. (MG)	- - - -	(11)	
	5D*	1.00 - 1.08 1.00 - 1.10	-	C*200 Vo 0.1				1.00m: Very dense.	- - - -		
	6D*	1.50 - 1.95 1.50 - 1.60	1.50	C 5 Vo 0.0				Soft dark greenish grey slightly gravelly CLAY. Gravel is angular and subangular fine to coarse limestone. (MG)	1.75	4.45 4.20	
	7B 8D 9B 10D*	1.75 - 2.00 2.00 - 2.45 2.00 - 2.50 2.00 - 2.50	2.00	S 5 Vo 0.0				Soft dark grey slightly sandy silty CLAY. (TFD)	-		
	11P 12B	2.50 - 3.50 2.50 - 3.00	2.50						- - - -		
	13P	3.00 - 4.00	3.00		P/S				- - - - - -		
09/03/15	14B 15D*	4.00 - 4.50 4.00 - 4.50		Vo 0.0					- - - - -		
1700hrs 4.10m 10/03/15	16P 17UT	4.50 4.50 - 4.70 4.70 - 5.15	4.50 - 4.70	V 28	P/S			Woody PEAT (Driller's description). (PEAT)	4.60 4.70	1.35 1.25	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
0800hrs 1.10m	18D	5.00 - 5.15						Very soft dark grey peaty silty CLAY. (TFDP)	-		
	19B	5.50 - 6.00							-		
	20D 21B	6.50 - 6.70 6.50 - 7.00	6.50	S<1					-		
	22B	7.50 - 8.00	- - - - - - -					Continued Next Page	- - - - - - - - - - - - - - - - - - -		

EQUIPMENT: Light cable percussive (shell and auger) rig and Geotechnical pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.00m. Cable percussion (200mm) 1.00-2.00m and (150mm) 2.00m to 13.10m. Waterflush rotary core drilled (116mm) 13.10-19.10m. CASING: 200mm diam to 2.00m and 150mm diam to 12.60m.

BACKFILL: On completion, borehole backfilled with bentonite pellets 19.10-19.00m. A slotted standpipe (50mm) with geo-sock was installed to 19.00m, granular response zone 19.00-12.90m and bentonite seal 12.90-9.00m. A second slotted standpipe (35mm) with geo-sock was installed to 9.00m, granular response zone 9.00-4.90m, bentonite seal 4.90-0.50m, concrete and stopcock cover 0.50-0.00m.

REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-11.00m. No anomalies encountered. Bentonite seal for aquifer protection installed during drilling 2.00m, prior to reduction in casing diameter. MMG = Mercia Mudstone Group. Weathering zone after Chandler RJ and Forster CIRIA C570; Engineering in Mercia Mudstone (2001).

flush.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered prior to use of water



CONTRACT

CHECKED

30238 | EC

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

12 March 2015

BH52/

19.10 m

SITE M4 CORRIDOR AROUND NEWPORT

Sheet 2 of 3

Start Date 9 March 2015

End Date

Easting 338871.9

185644.4

Ground level

Northing

Scale 1:50

Depth

5.95mOD

progress sample depth (m) casing test instru depth reduced legend samo date/time /core description level no & depth type & -ment (m) value water depth type (m) range (m) 23UT 8.00 - 8.45 8.00 24D 8.45 - 8.55 25B 9.00 - 9.50 9.50 -3.55 26D 9.50 - 9.95 9.50 S 28 Stiff dark reddish brown and greenish grey slightly gravelly CLAY. Gravel is subangular fine to coarse mudstone lithorelicts. (MMG) (Grade III) 27B 10 50 - 11 00 11.00 - 11.45 | 11.00 | S 42 280 11.00 - 13.10m: Very stiff. 10/03/15 1700hrs 3.10m 11/03/15 0800hrs 29B 12.00 - 12.50 10.60m 30D 12.50 - 12.67 12.50 S*500 11/03/15 1700hrs 31D 12.70 - 13.00 10.60m 13.10 -7.15 13.00 - 14.20m: Light greenish grey. 100 23 0 12/03/15 1130hrs 11.28m 32C 13.10 - 14.60 12.60 Very stiff fissured reddish brown CLAY. Relict fissures are randomly orientated very closely spaced. (MMG) (Grade IVb) 13.50m: Subhorizontal band (30mm) of extremely weak mudstone. 13.70m: 20° band (50mm) of extremely weak thinly 14.25 -8.30 laminated mudstone. NI 20 60 Extremely weak thinly laminated reddish brown 100 46 0 MUDSTONE recovered non intact. Fractures are 33C 14.60 - 16.10 -12.60 subhorizontal to 20° and 70° to subvertical very closely spaced planar smooth rarely stained back. (MMG) (Grade 15.30 -9.35 Extremely weak thinly laminated reddish brown NI 60 MUDSTONE locally disintegrated to subrounded coarse mudstone lithorelicts with 30% stiff clay matrix. Fractures are subhorizontal to 20° and 70° to subvertical extremely closely and very closely spaced planar smooth rarely 100 36 0 stained back. (MMG) (Grade II/III) 340 16.10 - 17.60 -12.60 15.70m: 70° fracture planar smooth stained black 16 45 -10.50 Extremely weak to weak thinly laminated reddish brown MUDSTONE locally recovered non intact. Fractures are subhorizontal to 20° and 70° to subvertical very closely spaced planar smooth rarely stained back. (MMG) (Grade 16.55 - 16.65m: Greenish grey gravelly clay.

Geotechnical Engineering Ltd, Tel. 01452 527743 30238 YODA.GPJ TRIALJH.GPJ GEOTECH.GLB 16/07/2015 16:02:58 MC/PR

water strike (m) casing (m)

35C

17.60 - 19.10

rose to (m) time to rise (m)

flush

12.60

remarks
Groundwater not encountered prior to use of water

Continued Next Page

AGS

30238

17.70

18.00<u></u> {18.00}

CHECKED

-11.75

-12.05

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

3 of 3

SITE M4 CORRIDOR AROUND NEWPORT

> Scale 1:50

9 March 2015 Start Date

Easting 338871.9 Sheet

progress	sample	depth	(m)	casing	test	samp.		instru		depth	reduced	legan
date/time	no &	from	to	depth (m)	type & value	/core range	If	-ment	description	(m)	level (m)	legen
	турс	IIOIII		-	value	range	NI 90 200		Very stiff greenish grey gravelly CLAY. Gravel is subangular fine to coarse lithorelicts of extremely wea mudstone. Fissures are subhorizontal to 20° and 70° subvertical very closely spaced planar smooth. (MMG (Grade III)	o ·	(11)	
2/03/15 700hrs 31m				- - - -					Weak thickly laminated reddish brown MUDSTONE. Fissures are subhorizontal to 20° and 70° very closely closely spaced planar smooth frequently stained black (MMG) (Grade II)	and [-13.15	
				_					Borehole completed at 19.10m.			
				- - - -							-	
				- - - -						-		
				- - - - -								
										<u> </u>	-	
				_								
				-								
										-		
				- - - - -								
				- - - -								
ter strike	(m) casi	na (m)	rose t	- - - - - - -	ime to ric	e (m)	rema	arke		{28.00}	CHE	CKE
ater strike	(III) Casi	ing (III)	rose to	J (111) L	ime to ris	(III)			AUS	NTRACT 0238		CKE

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S

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

4 March 2015

1 of 2

1:50

SITE M4 CORRIDOR AROUND NEWPORT

Scale

Sheet

Start Date 3 March 2015

End Date

Easting 339268.2

185680.5 Ground level

Northing

5.20mOD

Depth 17.00 m

progress date/time	sample no &	depth	(m)	casing depth	test type &	samp. /core	If	instru -ment	description	depth (m)	reduced level	leger
vater depth	type	from	to	(m)	value	range	Ιţ	-ment	description	(111)	(m)	
03/03/15 000hrs	1B	0.25 - 0						11/11/	Grass over firm dark grey mottled orangish brown silty	=		<u>×</u>
0001113	2D*	0.25 - 0 0.35	0.40	_	Vo 0.1 H 36				CLAY with frequent rootlets (up to 1mm diam). (TFD)	_		×
	3B	0.70 - (200	_	1130							;
	3D 4D*	0.70 - 0		-	Vo 0.0			HHH		-	-	× ;
	5B	1.00 - 1		_						_	-	×
	6D*	1.00 - 1			Vo 0.0					1.20	4.00	
	7UT 10X	1.20 - 1 1.20 - 2		- Nil					Very soft dark bluish grey silty CLAY with frequent plant fragments (up to 50mm). (TFD)			Ĺ
	8D	1.65 - 1	1.80	-					riagnierits (up to soniiri). (TPD)	-	1	<u>x</u>
	11D*	1.70 - 1		-	0.4			国国国		-		
	9D	1.80 - 2	2.25	- NII	S<1					_	1	
	40D*	0.00	2.40	F						-	1	<u>_×</u> _
	12D*	2.20 - 2		2.40						-	1	
	13UT 16X	2.40 - 2 2.40 - 3		2.40						_	1	
				F						_		<u>×</u> _
	14D 15D	2.85 - 3 3.00 - 3		2.40	C 1					-	1	
	130	3.00 - 3	5.45	2.40	3 1]		
17D*	3.30 - 3	3.50	E]		<u>×</u> _	
	18UT 21X	3.50 - 3		_ 3.50						-		× _
		3.50 - 4	4.60					HHH		-		
	19D	3.95 - 4	4.10	_						-		×
	20D	4.10 - 4	4.55	3.50	S<1					-		
				_						-		
	22UT	4.60 - 5	5.05	4.60						-		×
	25X	4.60 - 6								-		×
	23D	5.05 - 5	5 20	-						_		
	24D	5.20 - 8		4.60	S<1							<u> </u>
				-						-		<u>×</u> _
				-						-		
				F						5.95	-0.75	
	26UT	6 1 0 (. EE	6.10					Firm black fibrous PEAT. (PEAT)	-		71/
	28X	6.10 - 6 6.10 - 7		6.10							1	1/ /1
				F		•				6.60	-1.40	71/
	27D	6.55 - 6	5.70	F					Soft dark bluish grey organic CLAY with frequent plant		1	
				L					fragments (up to 50mm). (TFD)			_1/
									7.10 7.15m; Firm block fibrous post			[-
				L					7.10 - 7.15m: Firm black fibrous peat.	-		' <i>/</i>
				F						-	-	
	29D	7.60 - 8		7.60	S<1							
	30X	7.60 - 9	9.10	-				=		-	-	L==

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (113mm) 1.20-11.00m. Waterflush rotary core drilled (116mm) 11.00-17.00m. CASING: 140mm diam to 10.60m.

BACKFILL: On completion, a slotted standpipe (50mm) with geo-sock was installed to 17.00m, granular response zone 17.00-11.80m and bentonite seal 11.80-7.00m. A second slotted standpipe (35mm) with geo-sock was installed to 7.00m, granular response zone 7.00-6.00m, bentonite seal 6.00-0.25m, concrete and raised cover 0.25-0.00m. REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-10.60m. No anomalies encountered. Permeability test undertaken at 8.90m- 10.60m. MMG = Mercia Mudstone Group. Weathering zone after Chandler RJ and Forster CIRIA C570; Engineering in Mercia Mudstone (2001). Falling head permeability test undertaken at 10.60m.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks AGS CONTRACT **CHECKED** 0.25 0.20 30238 EC

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

BH528

SITE M4 CORRIDOR AROUND NEWPORT

Sheet 2 of 2

Start Date 3 March 2015 Easting

Scale 1:50

End Date 4 March 2015 Northing 185680.5 Ground level 5.20mOD Depth 17.00 m

339268.2

End Date	-T 1V	larch 2015			Nort	mig	10	5680.5 Ground level 5.20mOD	Depth	'	7.00 r
progress	sample	depth (m)	casing	test	samp.		instru			reduced	legen
date/time vater depth	no & type	from to	depth (m)	type & value	/core range	If	-ment	description	(m)	level (m)	
			- 1		-				_	` ′	
			E						=		_47/_
								8.40 - 8.60m: Firm black fibrous peat.	-	0.00	
			-					Firm light brown slightly sandy slightly gravelly CLAY.	8.80	-3.60	
	31UT	9.10 - 9.55	9.10					Gravel is subangular fine and medium sandstone. (TFD)	9.10	-3.90	
	33X	9.10 - 10.60						Firm light greenish grey slightly sandy silty CLAY. (TFD)	_		
	32D	9.55 - 9.70	-		-				-		
			E						_		
3/03/15									_		
740hrs .80m			-						10.60	-5.40	
04/03/15 I 100hrs	34D 35X	10.60 - 11.02 10.60 - 11.00		S*56	-	NA		Very stiff dark reddish brown very gravelly CLAY with] =		==
.83m	36C	11.00 - 12.50	_		100			frequent light greenish grey reduction spots (up to 20mm). Gravel is subangular fine to coarse extremely weak	_		
	000	11.00 12.00	- 10.00					mudstone and very stiff clay. Fissures are subhorizontal to 20° and subvertical extremely closely spaced planar	-		
								smooth. (MMG) (Grade III)	_		
									=		
			E						_		===
			-						12.50	-7.30	
	37C	12.50 - 14.00	10.60		100	NA		Very stiff dark reddish brown very gravelly CLAY. Gravel is			===
						angular and subangular fine to coarse lithorelicts of extremely weak mudstone. Fissures are subhorizontal to	_				
			-					20° extremely closely spaced planar smooth. (MMG) (Grade III)	-		
			E						=		
									-		
	38C	14.00 - 15.50	- - 10.60		98				-		
	300	14.00 - 15.50	- 10.00					14.15 - 14.40m: Light greenish grey.	_		
			_						=		
									_		<u> </u>
			-						_		
						NI NA		15.20 - 15.40m: Tending to extremely weak mudstone.	=		
	39C	15.50 - 17.00	10.60		100	147			_		==
			_						_		
			-						-		
			E						=		
04/03/15 1400hrs									=		
2.15m			E					Darahala assertated at 17 00m	17.00_	-11.80	
			_					Borehole completed at 17.00m.	-		
			E								
			- - -						_		
									{18.00}		
vater strike	(m) casi	ng (m) rose t	o (m) ti	me to ris	e (m)	rem	arks	AGS CONTR		CHE	CKE
								302	38		C

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BOREHOLE LOG



CLIENT WELSH GOVERNMENT

BH529

SITE M4 CORRIDOR AROUND NEWPORT

Sheet 1 of 3

Start Date 23 March 2015

Easting 339657.7

Scale 1:50

End Date 25 March 2015 Northing 185730.8 Ground level 5.10mOD Depth 18.50 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	If	instru -ment	description	depth (m)	reduced level (m)	legend
23/03/15 1150hrs	1B 2D* 3B 4D* 5B 6D*	0.20 - 0.50 0.20 - 0.50 0.50 - 0.80 0.50 - 0.80 0.80 - 1.20 0.80 - 1.20	-	Vo 24.0 Vo 23.8 Vo 15.0				Grass over firm dark greenish grey mottled orangish brown silty CLAY with frequent rootlets. (TFD)	- - - - - - -		x
23/03/15 1325hrs	P 7X 8D*	1.20 - 2.00 1.20 - 2.00 1.50 - 1.60	Nil					Soft dark grey silty CLAY. (TFD)	1.20 <u>-</u> - - - - -	3.90	
1.52m 24/03/15 0930hrs 1.62m	9X 10D* 11X	2.00 - 2.50 2.30 2.40 - 2.50 2.50 - 3.30	- - 2.00 - - 2.00	V 14				2.30m: Very low strength.	- - - - - -		x
	12X 13D*	3.30 - 3.80 3.50 - 3.60	200	V 24					- - - - - - -		x x x x x
	14X 15D	3.60 3.80 - 4.60 4.60 - 5.05	3.80						4.60	0.50	X — X—
	16X	4.60 - 5.50	3.00	02				Very soft dark grey and black peaty silty CLAY. (TFDP) Very soft black fibrous PEAT. (PEAT)	5.15	-0.05	x - x - x - x - x - x - x - x - x - x -
	17D 18X	5.50 - 5.95 5.50 - 7.00	3.80 - 5.50	S 2				Very loose dark grey silty fine and medium SAND. (TFD)	5.60 <u>-</u> - - -	-0.50	
	19D	7.00 - 7.45 7.00 - 8.50	5.50 - 7.00	S<1					- - - - -		× · · · · · · · · · · · · · · · · · · ·
	20X	7.00 - 8.50	7.00					Very soft dark grey silty peaty CLAY. (TFDP)	7.25 - - - - 7.80 -	-2.15 -2.70	
			E					7.70 - 7.80m: Tending to firm black fibrous peat. Continued Next Page	{8.00}		<u>×</u>

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (113mm) 1.20-9.50m. Waterflush rotary core drilled (116mm) 9.50-18.50m.

CASING: 140mm diam to 9.00m.

BACKFILL: On completion, hole backfilled with bentonite pellets.

REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-9.50m. No anomalies encountered.

MMG = Mercia Mudstone Group. Weathering zone after Chandler RJ and Forster CIRIA C570; Engineering in Mercia Mudstone (2001). Falling head permeability test undertaken at 10.60m.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks
0.90 Nil 0.52 20 CONTRACT
30238 EC

R

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

2 of 3

SITE M4 CORRIDOR AROUND NEWPORT

> 1:50 Scale

Start Date 23 March 2015 Easting 339657.7

> > 30238

EC

Sheet

progress date/time water depth	sample no & type	der from	oth (n	n) to	casing depth (m)	test type & value	samp. /core range	I _f	instru -ment	description	depth (m)	reduced level (m)	l lege
24/03/15 1640hrs 0.40m 25/03/15 0850hrs 0.50m	21D 22X	8.50 8.50			7.00 - 8.50	S 17				Stiff light greenish grey slightly sandy silty CLAY with frequent plant fragments (up to 50mm). (TFD)			x
	23D 24C	9.50 9.50		Г	8.50 - 9.00	S*83	92	NA		9.50 - 10.10m: Very stiff.		- - - - - - -	x
	25C	11.00 11.00			9.00	C*88	100	NI		Very stiff fissured light greenish grey slightly gravelly CLAY. Gravel is angular and subangular fine to coarse very stiff clay and extremely weak mudstone lithorelicts. Fissures are subhorizontal to 20° planar smooth. (MMG) (Grade III) Extremely weak thinly bedded light greenish grey	10.10	-	
	26C	12.50) - 14	4.00	9.00		97 23 0			MUDSTONE. Fractures are subhorizontal to 20° and subvertical extremely closely spaced planar smooth. Recovered non intact. (MMG) (Grade II) Extremely weak locally weak thinly bedded reddish brown MUDSTONE. Fractures are subhorizontal to 20° and subvertical extremely closely spaced planar smooth. Recovered non intact. (MMG) (Grade III) 13.00 - 13.10m: Tending to stiff reddish brown clay.	12.50	-7.40	
	27C	14.00	D - 18	5.50	9.00		99 27 0			13.70 - 13.80m: Tending to stiff reddish brown clay.			
	28C	15.50	0 - 17	7.00			95 30 10						
	29C	17.00	D - 18	8.50	9.00		92 79 17	NI 60 150		Weak thinly laminated to very thinly bedded dark reddish brown MUDSTONE. Fractures are subhorizontal to 20° extremely closely and closely spaced planar smooth. (MMG) (Grade II)	16.55	- - - - - - - -	
					- - - -			250		Weak thinly bedded light greenish grey MUDSTONE. Fractures are subhorizontal to 20° and subvertical		-12.90	

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

3 of 3

SITE M4 CORRIDOR AROUND NEWPORT

> Scale 1:50

Start Date 23 March 2015 Easting 339657.7 Sheet

date/time water depth type 25/03/15 1545hrs 1.30m	from to	depth (m)	type & value	/core range	I _f	-ment	description medium spaced locally non intact planar smooth. (MMG)	(m)	level (m)	
25/03/15 1545hrs 1.30m		-			NI		medium spaced locally non intact planar smooth. (MMG)	1 -		
1.30m		-						- -	4	
		- - - - -					Grade II) 17.80 - 18.00m: Tending to light greenish grey clay.	18.50	-13.40	
		-					Weak thinly laminated to very thinly bedded light greenis grey MUDSTONE. Fractures are subhorizontal to 20° extremely closely and very closely spaced planar smooth (MMG) (Grade I/II)	- -	-	
							Borehole completed at 18.50m.			
		- - -								
		- - -						-		
		- - -						-	-	
		<u> </u>						-		
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		- - -						-		
		- -						{28.00}		
vater strike (m) cas	sing (m) rose t	o (m) tii	me to ris	e (m)	rem	arks	AGS CON	rract	CHE	CKE

BOREHOLE LOG

End Date



CLIENT WELSH GOVERNMENT

20 March 2015

BH530

1:50

SITE M4 CORRIDOR AROUND NEWPORT

Sheet 1 of

Start Date 18 March 2015 Easting 339811.7

Northing

185831.4

Depth 21.00 m

Scale

6.25mOD

progress	sample	depth (m)	casing	test	samp.		instru		depth		legend
date/time	no &		depth	type &	/core	If	-ment	description	(m)	level	
water depth	type	from to	(m)	value	range					(m)	
18/03/15 0800hrs	1B	0.20 - 0.50	E				11/	Soft dark grey CLAY with frequent rootlets (up to 1mm).	-		
U800nrs	2D*	0.20 - 0.50		Vo 0.3				(MG)			
	3B	0.50 - 0.80	F	H 43			ĦĦĦ		0.50	5.75	$\times \times \times \times$
	4D*	0.50 - 0.80	F	Vo 3.9				Soft dark grey mottled light bluish grey slightly sandy silty	_	1	
	5B	0.80 - 1.00	ļ.				BBB	CLAY with rare fibrous roots (up to 3mm diam) and rootlets (up to 1mm diam). (TFD)	_		
	6D*	0.80 - 1.00	- Ni	Vo 6.2					_	1	
	6UT 7D	1.00 - 1.45 1.45 - 1.50	-						-	-	
	8D	1.50 - 1.95	Ni	S 5					_		
	9X	1.50 - 2.00	ļ						_	1	
	10D*	1.50 - 1.60	-						-		
			_				EEE		_		
	11UT	2.00 - 2.45	- Ni					2.00 - 2.50m: Firm.	-		
	12D	2.45 - 2.50	F				HHE		-	-	
	13D	2.50 - 2.95	Ni	S 6	-				_	1	
	14X 15D*	2.50 - 3.00 2.50 - 2.60	Ė						-		
	130	2.50 - 2.00									
	16UT	3.00 - 3.45	- Nil		<u> </u>			2.00 4.40 \/	_	1	
	1001	3.00 - 3.43	-				EEE	3.00 - 4.10m: Very soft.	-	-	
	17D	3.50 - 3.95	Nii	S 1					_	1	
	18X	3.50 - 4.00	- '	'					_		
	19D*	3.50 - 3.60									
									4.40	0.45	
	UT	4.00 - 4.45	- Ni					V 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.10	2.15	
	20X	4.00 - 4.50	F					Very soft dark grey mottled light grey CLAY. (TFD)	_		
	21D	4.50 - 4.95	Ni	S<1			EEE		_	1	
	22X	4.50 - 5.00									
	000	500 545							4.90	1.35	
	23D 24X	5.00 - 5.45 5.00 - 6.50	_ 5.00	S 4	+		57 F. S	Soft black clayey fibrous PEAT with fine fibrous organic	5.00	1.25	
	247	3.00 - 0.30	-					fragments (up to 5mm). (PEAT)	5.25 -	1.00	
			F					Very soft light grey mottled yellowish grey CLAY. (TFD)	-	1	71/
			F					Spongy black pseudofibrous PEAT with rare rootlets (up	-	1	1/ 1//
			Ė				$[. \parallel . \parallel]$	to 1mm diam). (PEAT)	_		71 1/ VI 1/
							ŀ ŀ .		_	1	1, 11,
									-		11/ 11/
			_				- - -		-	-	
	25D	6.50 - 6.95		S 1	\vdash				-	1	1/ 1/1/
	26X	6.50 - 8.00	- 6.50				ŀ		6.85 -	-0.60	71 71
			F					Variable light may matted block your parts OLAY with	0.00 -	-0.60	<u> </u>
			-				1.11.11.	Very soft light grey mottled black very peaty CLAY with frequent rootlets (up to 1mm diam) and organic material	-	1	
								(up to 3mm). (TFDP)	-		<u> </u>
			-				- - -		-	1	
18/03/15			F						7.65	-1.40	
1700hrs			F					Light grey very clayey SAND with rare rootlets. (TFD)	7.75	-1.50	<u> </u>
3.40m	27D	8.00 - 8.45	_ 6.50	S 2				Continued Next Dags	7.95 -	-1.70	
								Continued Next Page	{8.00}		

Ground level

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.00m. Dynamic sampled (128mm) 1.00-4.00m and (113mm) 4.00-10.60m. Waterflush rotary core drilled (116mm) 10.60-21.00m.

CASING: 140mm diam to 9.80m.

BACKFILL: On completion, a slotted standpipe (50mm) was installed to 21.00m, granular response zone 21.00-12.00m and bentonite seal 12.00-8.00m. A second slotted standpipe (35mm) was installed to 8.00m, granular response zone 8.00-5.00m, bentonite seal 5.00-0.20m, concrete and stopcock cover 0.20-0.00m.

REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-10.60m. No anomalies encountered. Falling head permeability test undertaken at 8.00m- 9.50m. MMG = Mercia Mudstone Group. Weathering zone after Chandler RJ and Forster CIRIA C570; Engineering in Mercia Mudstone (2001).

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered prior to use of water flush.



30238

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В

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

2 of 3

1:50

SITE M4 CORRIDOR AROUND NEWPORT

Scale

Start Date 18 March 2015

Easting 339811.7 Sheet

progress date/time	sample no &	depth (m)	casing	test type &	samp. /core	If	instru -ment	description	depth (m)	level	lege
vater depth	type	from to	(m)	value	range					(m)	_
9/03/15 0800hrs 0.37m	28X	8.00 - 9.50	- 8.00 - - - - -					Soft light grey sandy CLAY with rare rootlets. (TFD) Very soft light grey mottled dark grey slightly sandy silty CLAY with rare rootlets (up to 1mm diam). (TFD) 8.45 - 8.75m: Slightly gravelly. Gravel is rounded fine to	8.75	-2.50	× -
	29D 30X	9.50 - 9.95 9.50 - 10.60	8.00 - 9.50	S 23				Coarse sandstone. Stiff light greenish grey slightly sandy silty CLAY with rare fragments of black organic material (up to 2mm). (TFD)	J =	-	x
	31D	10.60 - 10.83	- - - - - - - - - 9.50	S*158							× _
	32C	10.60 - 11.95	- - - - - - - -		86	NA		Stiff fissured light greenish grey slightly sandy gravelly CLAY. Gravel is subangular and subrounded fine to coarse lithorelicts of very stiff clay and extremely weak mudstone. (MMG) (Grade III)	10.80	-4.55	
	33C	11.95 - 12.11 11.95 - 13.40	9.50	C*176	90				-		
			= - - - - - -			NI		Extremely weak and very weak thinly laminated light	12.85	-6.60	
	34C	13.40 - 14.90	9.50		100 0 0			reddish brown MUDSTONE recovered non intact as sandy subangular fine to coarse gravel. (MMG) (Grade II)			
13.40 - 14.90 9.50			NA		Stiff fissured light greenish grey sandy gravelly CLAY. Gravel is subangular and angular fine and medium lithorelicts of very stiff clay and extremely weak mudstone. (MMG) (Grade III)	14.15	+				
	35C	14.90 - 16.40	9.50 - - - -		100			Very stiff fissured reddish brown sandy gravelly CLAY. Gravel is subangular fine to coarse mudstone lithorelicts. (MMG) (Grade III)	-		
									16.40	-10.15	
36C	16.40 - 17.90	9.50 - - - - - - -		98	NA		Very stiff locally stiff fissured reddish brown gravelly CLAY. Gravel is subangular and subrounded fine to coarse lithorelicts of extremely weak and very weak mudstone. Fissures are subhorizontal to 20° and subvertical very closely and closely spaced undulating smooth. (MMG) (Grade III)	10.40			
19/03/15 1700hrs 2.60m			- - - - - -						17.90	-11.65	
	(m) casi	ing (m) rose to		me to ris			arks	Continued Next Page	{18.00}	CHE	

BOREHOLE LOG

SITE



CLIENT WELSH GOVERNMENT

M4 CORRIDOR AROUND NEWPORT Sheet 3 of 3

Start Date 18 March 2015 Easting 339811.7 Scale 1 : 50

End Date 20 March 2015 Northing 185831.4 Ground level 6.25mOD Depth 21.00 m

End Date	20	March	2015	5		Nortl	ning	18	35831.4	Ground	level 6	.25mO	D	Depth	2	1.00 m
progress date/time water depth	sample no & type	depth	to	casing depth (m)	test type & value	samp. /core range	I _f	instru -ment			description			depth (m)	reduced level (m)	legend
date/time	no &		to 19.00	depth	type &	/core	I _f NI NA NI NA NI 120	-ment	Weak thir MUDSTO Very stiff is subang extremely Weak and bedded re [MMG] (G) Stiff and w Gravel is mudstone and subve 19.65 - 19 mudstone Very weal reddish bic closely an I)	NE recovered issured light ular and substant weak siltstor medium streddish brown rade I/II) ery stiff fissus ubangular a lithorelicts. Fertical planar a.80m: Very vox and weak the own MUDST	to very thinly be do non intact. (M bluish grey gravounded fine to one. (MMG) (Gravong thinly lamin. MUDSTONE reserved reddish brounded Fissures are substantially lamin. (MMG weak thinly lamin.)	MG) (Gravelly CLA coarse lit de III) ated to ve ecovered wn grave fine and ohorizont) (Grade In nated red to very the s are 20°	Y. Gravel horelicts of ery thinly non intact. Illy CLAY. medium al to 20° Va) dish brown inly bedded very	(m) 18.25 18.80 19.25 20.15	level (m) -12.00 -12.55 -13.00	legend
water strike	(m) casi	ng (m)	rose to		me to ris	se (m)	rema	arks				AGS	CONTR	{28.00}	CHE	CKED
	, , , ,	3 ()	•	. ,				undwat	ter not enco	untered prior	to use of water	AGS	302			C

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В

TRIAL PIT LOG



CLIENT WELSH GOVERNMENT

11 010

1 of 2

SITE M4 CORRIDOR AROUND NEWPORT

Sheet

Start Date 13 February 2015

Easting 338872.1

Scale 1 : 25

End Date 13 February 2015 Northing 185638.5 Ground level 5.90mOD Depth 4.50 m

water		sample/te		description	depth	level	legend
record	no/type	result	depth (m)	·	(m)	(m)	legeria
	1B 2D*	Vo 0.8	0.00- 0.30 0.00- 0.30	Dark purplish grey sandy angular and subangular fine to coarse slag GRAVEL with rare angular and subangular slag cobbles. (MG)	- - -		
	3B 4D*	Vo 1.1	0.70- 0.90 0.70- 0.90		0.90	5.00	
1.05m: Rapid ingress	5B 6D*	H 53 Vo 1.2	1.00- 1.20 1.00- 1.20	Firm locally stiff dark bluish grey mottled light orangish brown slightly gravelly sandy CLAY with rare angular and subangular slag cobbles. Gravel is angular and subangular fine slag. (MG)		3.00	
	7B 8D* 9B 10D*	Vo 1.4	1.60- 1.80 1.60- 1.80 1.80- 2.00 1.80- 2.00	Soft light bluish grey slightly sandy CLAY with rare organic fragments (<1mm). (TFD)	- - - 1.80 _	4.10	
	11B 12D*	H 28	2.00 2.50- 2.70 2.50- 2.70	Very soft dark bluish grey sandy CLAY with frequent organic fragments (up to 3mm). (TFD)	2.50	3.40	
	13B 14D*	H 17	3.00 3.10- 3.30 3.10- 3.30		- - - -		
	15B 16D*	Vo 0.8	3.70- 3.90 3.70- 3.90		- - - -		

Notes

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Sketch of Foundation - Not to scale. All dimensions in metres.

Trial pit excavated by JCB 3CX mechanical excavator.

Groundwater encountered at 1.05m.

Trial pit sides remained stable and vertical.

Trial pit dimensions 0.90x2.60x4.50m.

On completion, the trial pit was backfilled with materials arising.

AGS

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30238 EC

TRIAL PIT LOG



CLIENT WELSH GOVERNMENT

SITE M4 CORRIDOR AROUND NEWPORT Sheet 2 of 2

Start Date 13 February 2015

338872.1 Easting

Scale 1:25

13 February 2015 **End Date** Northing 185638.5 Ground level 5.90mOD Depth 4.50 m

water		sample/te	est	description	depth	level	lagand
record	no/type	result	depth (m)	description	(m)	(m)	legend
	17B 18D*	H 13	4.00 4.30- 4.50 4.30- 4.50		- - - 4.50	1.40	
3.80m				Trial pit completed at 4.50m.	_		
Notes				Sketch of Foundation - Not to scale. All dim	ensions	in metr	20

Trial pit excavated by JCB 3CX mechanical excavator.

Groundwater encountered at 1.05m.

Trial pit sides remained stable and vertical.

Trial pit dimensions 0.90x2.60x4.50m.

On completion, the trial pit was backfilled with materials arising.

CONTRACT

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EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

30238

TRIAL PIT LOG

SITE



CLIENT WELSH GOVERNMENT

M4 CORRIDOR AROUND NEWPORT Sheet 1 of 2

Start Date 13 February 2015 Easting 338633.9 Scale 1 : 25

End Date 13 February 2015 Northing 185592.3 Ground level 5.85mOD Depth 4.50 m

water		sample/te	est	description	depth	level	legeno
record	no/type	result	depth (m)	description	(m)	(m)	legerit
	1B 2D*	Vo 0.3	0.00- 0.40 0.00- 0.40	Dark purplish grey sandy angular and subangular fine to coarse slag GRAVEL with medium subangular slag cobble content. (MG)	-		
				Dark brownish grey sandy angular and subangular fine to coarse slag GRAVEL with medium subangular slag cobble content. (MG)	0.40	5.45	
	3B		0.70- 0.90	0.70 - 0.90m: Frequent angular to subangular coarse dark yellowish brown slag gravel.	-		
	4D*	Vo 0.4	0.70- 0.90	Firm dark bluish grey slightly sandy slightly gravelly CLAY. Gravel is angular and	0.90	4.95	
1.05m: Rapid ingress		H 67	1.00	subangular slag. (MG)	-		
	5B		1.30- 1.50		-		
	6D*	Vo 1.9	1.30- 1.50	Firm light grey mottled dark orangish brown slightly sandy CLAY. (TFD)	1.50	4.35	
	7B		1.90- 2.10		-		
	8D*		1.90- 2.10		-		
		H 74	2.00		- - -		
	9B		2.50- 2.70		-		
	10D*	Vo 0.8	2.50- 2.70	Soft light bluish grey sandy CLAY with frequent organic fragments (up to 3mm). (TFD)	2.70	3.15	
		H 31	3.00		_		<u></u>
	11B		3.10- 3.30		_		
	12D*	Vo 0.6	3.10- 3.30		-		
	13B		3.70- 3.90		-		
	14D*	Vo 1.2	3.70- 3.90		_		
Notes				Sketch of Foundation - Not to scale, All dim	oncione	in motr	00

Notes

Trial pit excavated by JCB 3CX mechanical excavator.

Groundwater encountered at 1.05m.

Trial pit sides remained stable and vertical.

Trial pit dimensions 0.80x2.50x4.50m.

On completion, the trial pit was backfilled with materials arising.

Sketch of Foundation - Not to scale. All dimensions in metres.



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EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

SF/EC

TRIAL PIT LOG



CLIENT WELSH GOVERNMENT

11 011

Sheet

SITE M4 CORRIDOR AROUND NEWPORT

Scale 1 : 25

Start Date 13 February 2015

Easting 338633.9

End Date 13 February 2015 Northing 185592.3 Ground level 5.85mOD Depth 4.50 m

water		sample/to		description	depth	level	legend
record	no/type	result	depth (m)	doorpron	(m)	(m)	Jogoria
9.90m	15B 16D*	H 19	4.00 4.30- 4.50 4.30- 4.50	Trial pit completed at 4.50m.	- - - 4.50 _	1.35	
Notes				Sketch of Foundation - Not to scale, All dim			

Notes

SF/EC

30238 YODA.GPJ TRIALJH.GPJ GEOTECH.GLB 16/07/2015 15:53:34 RDL

Sketch of Foundation - Not to scale. All dimensions in metres.

Trial pit excavated by JCB 3CX mechanical excavator.

Groundwater encountered at 1.05m.

Trial pit sides remained stable and vertical.

Trial pit dimensions 0.80x2.50x4.50m.

On completion, the trial pit was backfilled with materials arising.

AGS

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30238 EC

TRIAL PIT LOG



CLIENT WELSH GOVERNMENT

11 012

SITE M4 CORRIDOR AROUND NEWPORT

Start Date 3 March 2015

Easting 339250.2

Scale 1:25

Sheet

End Date 3 March 2015 Northing 185676.9 Ground level 5.10mOD Depth 3.00 m

water		sample/te	est	description	depth	level	legend
record	no/type	result	depth (m)	description	(m)	(m)	legena
	1B 2D*	Vo 0.00	0.00- 0.10 0.00- 0.10	Grass over soft dark brown silty CLAY (TOP) Firm bluish grey mottled yellowish brown silty CLAY with frequent fine rootlets (up	0.10 _	5.00	===
1.50m: Fast inflow.	3B 4D*	Vo 0.00	0.90- 1.00 0.90- 1.00	to 1mm). (TFD)	- - - - - - - -		
	5B 6D*	Vo 0.00	2.00- 2.10 2.00- 2.10	Soft bluish grey slightly sandy slightly peaty silty CLAY (TFDP)	2.00	3.10	
2.70m				Trial pit completed at 3.00m.	3.00_	2.10	
Notes		1	1	Sketch of Foundation - Not to scale, All dim	oneione	in metro	26

Notes

Geotechnical Engineering Ltd, Tel. 01452 527743

Sketch of Foundation - Not to scale. All dimensions in metres.

Trial pit excavated by tracked 8 tonne mechanical excavator.

Groundwater encountered at 1.50m.

Trial pit sides collapsed at 1.5m.

Trial pit dimensions 3.10x0.60x3.00m.

On completion, the trial pit was backfilled with materials arising.

AGS

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30238 EC

TRIAL PIT LOG

SITE



CLIENT WELSH GOVERNMENT

M4 CORRIDOR AROUND NEWPORT Sheet 1 of 1

Start Date 3 March 2015 Easting 339668.9 Scale 1 : 25

End Date 3 March 2015 Northing 185730.0 Ground level 5.30mOD Depth 3.60 m

water		sample/te		description	depth	level	legen
record	no/type	result	depth (m)	description	(m)	(m)	legen
				Grass over soft dark brown slightly sandy silty CLAY (TOP)	0.05	5.25	= =
				Firm light grey slightly sandy silty CLAY with frequent fine rootlets (up to 1mm).	_		<u> </u>
				(TFD)	-		
					-		
					_		<u> </u>
					_		ļ
					_		
					-		<u> </u>
					-		<u> </u>
					_		
					_		<u> </u>
	1B		1.00- 1.10				<u> </u>
	2D*	Vo 0.00	1.00- 1.10		_		
					-		
					-		
					-		- <u>:</u>
					_		
					_		
					_		<u> </u>
					-		<u> </u>
					-		
	0.0		0.00.040		_		
	3B		2.00- 2.10		_		
	4D*	Vo 0.00	2.00- 2.10		_		<u> </u>
							<u> </u>
					_		<u> </u>
					-		<u> </u>
					-		
					_		
					_		<u> </u>
							<u> </u>
2.90m:	5B		3.00- 3.10		_		<u> </u>
Moderate	6D*	Vo 0.00	3.00- 3.10		2 10	2.20	
nflow.		V 0 0.00	0.00 0.10	Coff light way all to CLAY with fragment block arrange staining and your fine	3.10 _	2.20	= =
				Soft light grey silty CLAY with frequent black organic staining and rare fine rootlets (up to 1mm). (TFD)	-		
				Tooliets (up to Tillin). (Ti b)	_		
					_		
3.50m					3.60	1.70	
				Trial pit completed at 3.60m.	- 0.00	1.70	

Notes

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Trial pit excavated by tracked 8 tonne mechanical excavator.

Groundwater encountered at 2.90.

Trial pit sides collapsed below 2.00m.

Trial pit dimensions 3.30x0.60x3.60m.

On completion, the trial pit was backfilled with materials arising.

Sketch of Foundation - Not to scale. All dimensions in metres.



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A2 Appendix 2

Gas and Groundwater Monitoring Results

Project Name New M4 Preliminary Ground Investigation
Project No. F15056
Engineer Ove Arup & Partners Ltd

Client Transport Wales, Welsh Assembly
Government

Groundwater Readings
For Installations

Fig no.

01

NOTES: SPIE=Piezometer, SP=Standpipe

For multiple installations, use different Installation IDs.

For piezometers installation depth = tip depth. For standpipes = base of pipe

COMMENTS SBHM01 RC installation extends 0.50m above ground level. - symbol indicates water level is above GL

All groundwater levels are recorded from ground level

				els are recor	ded from	n ground						
	Insta	llation Det	ails		1	1	1	ed Water Le			1	1
Exploratory Hole ID	Туре	Depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
CDUCO1 DC	CDIE	m		dd/mm/yyyy	hh:mm	m 2.45	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m
SBHC01 RC	SPIE	8.05		30/01/2008	09:50	2.45	25/02/2008	14:34	2.48	07/03/2008	14:25	2.60
SBHD03 CP	SPIE	10.00		30/01/2008	11:01	0.47	25/02/2008	14:52	0.43	07/03/2008	14:05	0.56
SBHD05 RC	SPIE	12.00		31/01/2008	09:00	1.02	25/02/2008	15:35	1.05	07/03/2008	13:50	1.77
SBHD06 RC	SP	15.00		30/01/2008	13:00	1.13	21/02/2008	10:30	1.39	07/03/2008	13:30	1.39
SBHD08 RC	SPIE	29.50		30/01/2008	13:50	1.20	25/02/2008	15:58	2.02	07/03/2008	13:35	1.40
SBHE02RD	SPIE	25.00		31/01/2008	09:25	2.18	25/02/2008	16:20	2.09	07/03/2008	13:10	2.48
SBHE04 RC	SPIE	17.20		31/01/2008	09:15	2.31	25/02/2008	16:11	2.51	07/03/2008	13:20	2.59
SBHF01 RC	SPIE	19.00		31/01/2008	09:40	5.69	25/02/2008	16:32	5.72	07/03/2008	12:50	5.43
SBHF02A CP	SPIE	17.00		01/02/2008	14:40	7.61	25/02/2008	17:13	7.57	07/03/2008	12:30	9.00
SBHF03 RC	SPIE	18.00		31/01/2008	10:35	6.97	26/02/2008	08:55	6.77	07/03/2008	12:15	7.22
SBHH01 RC	SPIE	25.00		31/01/2008	11:15	3.45	26/02/2008	09:39	3.42	07/03/2008	11:28	3.65
SBHH02 RC	SPIE	14.90		31/01/2008	11:10	3.42	26/02/2008	09:20	3.88	07/03/2008	11:35	3.64
SBHH05 RC	SPIE	21.50		31/01/2008	11:30	2.22	26/02/2008	10:01	2.13	07/03/2008	11:05	3.10
SBHH06 CP	SP	12.30		30/01/2008	15:30	3.75	21/02/2008	08:00	3.76	07/03/2008	11:10	3.87
SBHH07A RC	SPIE	24.85		30/01/2008	14:50	1.70	26/02/2008	10:40	1.34	07/03/2008	11:00	1.07
SBHJ01 CP	SP	7.50		01/02/2008	12:20	1.34	21/02/2008	11:45	5.98	06/03/2008	12:28	1.82
SBHJ03 CP	SP	5.20		01/02/2008	08:00	0.54	27/02/2008	16:15	0.70	07/03/2008	10:45	0.68
SBHJ04	SP	13.10		01/02/2008	11:55	6.61	22/02/2008	13::55	6.67	06/03/2008	11:46	6.75
SBHJ05	SP	11.50		01/02/2008	11:10	8.91	22/02/2008	09:00	9.07	06/03/2008	11:23	9.16
SBHJ06 CP	SP	4.10		01/02/2008	11:45	1.31	21/02/2008	15:30	1.32	06/03/2008	10:50	1.33
SBHJ07 CP	SP	10.40		01/02/2008	11:43	1.35	21/02/2008	14:40	1.40	06/03/2008	12:05	1.56
SBHJ08A CP	SP	7.40		01/02/2008	11:35	3.49	21/02/2008	13:05	2.31	06/03/2008	10:57	2.67
SBHJ09 CP	SP	2.20		01/02/2008	11:30	0.65	21/02/2008	12:25	0.85	06/03/2008	11:00	0.90
SBHJ10 CP	SP	10.00		01/02/2008	10:40	2.30	21/02/2008	13:45	2.24	06/03/2008	10:40	2.16
SBHK01 CP	SP	6.80		01/02/2008	10:55	0.70	25/02/2008	10:30	1.00	06/03/2008	14:24	1.06
SBHK02 CP	SP	11.20		01/02/2008	10:50	1.34	25/02/2008	11:20	1.33	06/03/2008	14:18	1.47
SBHK03 CP	SP	5.90		01/02/2008	10:45	0.87	25/02/2008	12:00	0.89	06/03/2008	14:15	1.00
SBHK04 CP	SP	12.20		01/02/2008	10:25	1.45	25/02/2008	12:30	1.60	06/03/2008	12:30	1.60
SBHL02 RC	SPIE	15.20		01/02/2008	10:35	2.27	25/02/2008	12:49	2.31	06/03/2008	14:00	2.42
SBHL03 RC	SPIE	15.00		31/01/2008	16:20	0.61	26/02/2008	11:15	0.51	07/03/2008	10:25	0.66
SBHM01 RC	SPIE	21.00		01/01/1900	08:20	-0.26	26/02/2008	11:30	-0.26	07/03/2008	10:17	0.05
SBHM02 RC	SPIE	20.00		01/02/2008	08:25	0.19	26/02/2008	11:41	0.49	07/03/2008	10:14	0.68
SBHN01A RC	SPIE	14.90		01/02/2008	15:20	8.49	27/02/2008	17:15	12.23	07/03/2008	14:45	13.18
SBHN02 RC	SPIE	20.40		31/01/2008	15:55	3.67	26/02/2008	11:57	4.19	07/03/2008	10:05	4.84
SBHN03 RC	SPIE	15.00		31/01/2008	15:45	1.07	26/02/2008	12:03	1.73	07/03/2008	09:55	2.34
SBHN04 RC	SPIE	10.00		31/01/2008	15:30	9.99	26/02/2008	14:42	DRY	07/03/2008	09:45	DRY
			1	, , -	L	<u> </u>	, ,			, ,		

Approved by: Recorded by: S Davis Checked by: I Swain I Swain 30/01/08-07/03/08 Date: 16/04/2008 17/04/2008 Date: Date: SI GWR 2.03 07/01/2008 Form No. Revision No. Issue Date



Project Name New M4 Preliminary Ground Investigation
Project No. F15056

Engineer Ove Arup & Partners Ltd

Client Transport Wales, Welsh Assembly
Government

Groundwater Readings
For Installations

Fig no.

02

NOTES: SPIE=Piezometer, SP=Standpipe

For multiple installations, use different Installation IDs.

For piezometers installation depth = tip depth. For standpipes = base of pipe

COMMENTS

Unable to locate LGBH05 and RBBH08. LGBH06 was blocked All groundwater levels are recorded from ground level

Exploratory Hole ID SBHP01 RC SBHP02 RC SBHP03 RC SBHQ01 RC SBHQ02 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23 SWSJ34	Type SPIE SPIE SPIE SPIE SPIE SPIE SPIE SPIE SPIE SP SP	Depth m 8.00 9.80 5.00 11.80 6.00 11.00 8.00 7.35	ID	Date dd/mm/yyyy 31/01/2008 31/01/2008 31/01/2008 31/01/2008 31/01/2008	Time hh:mm 14:50 13:55 13:40 14:20	Reading m DRY 7.20 4.09	Date dd/mm/yyyy 26/02/2008 26/02/2008	Time hh:mm 14:12 13:59	Reading m DRY 8.09	Date dd/mm/yyyy 07/03/2008	Time hh:mm 09:35	Reading m DRY
SBHP01 RC SBHP02 RC SBHP03 RC SBHQ01 RC SBHQ02 RC SBHQ03 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SPIE SPIE SPIE SPIE SPIE SPIE	8.00 9.80 5.00 11.80 6.00 11.00 8.00 7.35	U U	31/01/2008 31/01/2008 31/01/2008 31/01/2008 31/01/2008	14:50 13:55 13:40	7.20 4.09	26/02/2008 26/02/2008	14:12	DRY	07/03/2008	09:35	1
SBHP02 RC SBHP03 RC SBHQ01 RC SBHQ02 RC SBHQ03 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SPIE SPIE SPIE SPIE SPIE SPIE	9.80 5.00 11.80 6.00 11.00 8.00 7.35		31/01/2008 31/01/2008 31/01/2008 31/01/2008	13:55 13:40	7.20 4.09	26/02/2008					DRY
SBHP03 RC SBHQ01 RC SBHQ02 RC SBHQ03 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SPIE SPIE SPIE SPIE SPIE SPIE	5.00 11.80 6.00 11.00 8.00 7.35		31/01/2008 31/01/2008 31/01/2008	13:40	4.09		13:59	8.09	07/02/2000	00.40	
SBHQ01 RC SBHQ02 RC SBHQ03 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SPIE SPIE SPIE SPIE SP SP	11.80 6.00 11.00 8.00 7.35		31/01/2008 31/01/2008			26 /02 /2000			07/03/2008	09:10	8.25
SBHQ02 RC SBHQ03 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SPIE SPIE SPIE SP	6.00 11.00 8.00 7.35		31/01/2008	14:20		26/02/2008	13:48	4.76	07/03/2008	09:05	4.78
SBHQ03 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SPIE SP SP	11.00 8.00 7.35				5.76	26/02/2008	12:46	6.74	07/03/2008	09:30	7.20
SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SP SP	8.00 7.35		21 /01 /2000	14:15	4.98	26/02/2008	12:59	5.16	07/03/2008	09:25	5.98
SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SP SP	7.35		31/01/2008	13:20	6.04	26/02/2008	13:29	7.22	07/03/2008	08:38	7.59
SWSJ08 SWSJ13 SWSJ21 SWSJ23	SP SP			31/01/2008	13:05	4.35	26/02/2008	13:36	6.18	07/03/2008	08:55	6.94
SWSJ13 SWSJ21 SWSJ23	SP			31/01/2008	13:00	3.89	26/02/2008	13:16	4.40	07/03/2008	08:25	4.63
SWSJ21 SWSJ23		3.30		01/02/2008	12:30	0.42	21/02/2008	11:45	0.37	06/03/2008	12:35	0.41
SWSJ23	SP	2.50		01/02/2008	12:00	DRY	22/02/2008	13:45	DRY	06/03/2008	11:50	DRY
		6.00		01/02/2008	11:20	3.87	22/02/2008	09:30	5.72	06/03/2008	11:27	6.59
SWSJ34	SP	7.80		01/02/2008	11:22	5.92	22/02/2008	09:55	6.62	06/03/2008	11:30	6.97
	SP	6.00		01/02/2008	11:05	2.52	22/02/2008	10:55	3.33	06/03/2008	11:10	3.08
SWSJ37	SP	5.60		01/02/2008	11:25	0.46	22/02/2008	11:30	0.55	06/03/2008	11:15	0.61
LGBH02	SP	8.88					22/02/2008	14:35	7.50	06/03/2008	11:40	7.52
LGBH03	SP	8.90					22/02/2008	14:21	7.20	06/03/2008	11:44	7.28
LGBH04	SP	10.50					22/02/2008	10:30	8.87	06/03/2008	11:20	9.00
LGBH09	SP	7.00					22/02/2008	12:40	1.13	06/03/2008	10:48	1.56
LGBH10	SP	14.60					27/02/2008	14:30	8.15	06/03/2008	11:12	8.21
LGBH11	SP	11.20					27/02/2008	10:00	7.05	06/03/2008	11:03	7.07
LGBH12	SP	7.05					22/02/2008	13:10	1.40	06/03/2008	10:45	1.40
RBBH07	SP	6.25					27/02/2008	12.15	0.69	06/03/2008	12:20	0.71
RBBH09	SP	7.05					27/02/2008	13:40	1.25	06/03/2008	12:25	1.21
RBBH10	SP	6.85					27/02/2008	13:00	0.68	06/03/2008	12:30	0.82

Checked by: I Swain Recorded by: S Davis Approved by: I Swain 30/01/08-07/03/08 Date: 16/04/2008 Date: 17/04/2008 Date: SI GWR 2.03 07/01/2008 Form No. Revision No. Issue Date



Project Name New M4 Preliminary Ground Investigation
Project No. F15056

Engineer Ove Arup & Partners Ltd

Client Transport Wales, Welsh Assembly
Government

Groundwater Readings
For Installations

Fig no.

NOTES: SPIE=Piezometer, SP=Standpipe

For multiple installations, use different Installation IDs.

For piezometers installation depth = tip depth. For standpipes = base of pipe

COMMENTS SBHM01 RC installation extends 0.50m above ground level. - symbol indicates water level is above GL

All groundwater levels are recorded from ground level

		llation Det		eis are recor	000 11011	groome		ed Water Lev	/el			
Exploratory Hole ID	Tunn	Depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
	Туре	m	ID	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m
SBHC01 RC	SPIE	8.05		20/03/2008	16:30	2.57	04/04/2008	08:00	2.59	18/04/2008	07:40	2.66
SBHD03 CP	SPIE	10.00		20/03/2008	16:45	0.58	04/04/2008	08:13	0.53	18/04/2008	08:00	0.60
SBHD05 RC	SPIE	12.00		20/03/2008	16:00	1.08	04/04/2008	09:15	1.22	18/04/2008	08:30	1.32
SBHD06 RC	SP	15.00		20/03/2008	17:55	1.20	04/04/2008	09:30	1.33	18/04/2008	08:40	1.44
SBHD08 RC	SPIE	29.50		19/03/2008	18:30	1.28	04/04/2008	10:00	1.39	18/04/2008	08:52	1.52
SBHE02RD	SPIE	25.00		20/03/2008	16:20	2.23	04/04/2008	08:50	2.46	18/04/2008	09:00	2.54
SBHE04 RC	SPIE	17.20		20/03/2008	15:45	2.20	04/04/2008	09:00	1.80	18/04/2008	08:15	1.80
SBHF01 RC	SPIE	19.00		20/03/2008	15:30	5.50	04/04/2008	08:40	5.55	18/04/2008	13:58	5.58
SBHF02A CP	SPIE	17.00		20/03/2008	15:10	5.60	04/04/2008	10:28	5.70	18/04/2008	13:45	5.77
SBHF03 RC	SPIE	18.00		20/03/2008	14:55	7.20	04/04/2008	10:36	7.38	18/04/2008	13:40	7.42
SBHH01 RC	SPIE	25.00		20/03/2008	14:25	3.60	04/04/2008	15:00	3.60	18/04/2008	13:10	3.62
SBHH02 RC	SPIE	14.90		20/03/2008	14:30	4.27	04/04/2008	15:05	3.64	18/04/2008	13:13	3.70
SBHH05 RC	SPIE	21.50		20/03/2008	17:30	2.17	04/04/2008	15:15	2.78	18/04/2008	11:34	2.90
SBHH06 CP	SP	12.30		17/03/2008	15:20	3.88	04/04/2008	15:20	3.89	17/04/2008	14:15	3.90
SBHH07A RC	SPIE	24.85		20/03/2008	13:55	1.33	04/04/2008	15:28	1.92	18/04/2008	11:43	0.88
SBHJ01 CP	SP	7.50		19/03/2008	14:15	1.81	03/04/2008	16:05	1.90	17/04/2008	12:40	1.80
SBHJ03 CP	SP	5.20		19/03/2008	16:40	0.78	03/04/2008	18:25	0.82	17/04/2008	15:55	0.80
SBHJ04	SP	13.10		17/03/2008	13:35	6.64	03/04/2008	18:10	6.74	17/04/2008	13:08	6.80
SBHJ05	SP	11.50		18/03/2008	13:50	9.02	03/04/2008	17:39	9.10	17/04/2008	13:31	9.11
SBHJ06 CP	SP	4.10		17/03/2008	12:55	1.29	03/04/2008	17:43	1.33	17/04/2008	15:05	1.20
SBHJ07 CP	SP	10.40		17/03/2008	10:25	1.59	03/04/2008	17:47	1.50	17/04/2008	13:58	1.47
SBHJ08A CP	SP	7.40		18/03/2008	10:00	2.50	03/04/2008	17:55	2.50	17/04/2008	15:33	2.50
SBHJ09 CP	SP	2.20		18/03/2008	10:25	0.69	03/04/2008	17:58	0.82	17/04/2008	15:22	0.90
SBHJ10 CP	SP	10.00		17/03/2008	09:15	2.10	03/04/2008	17:50	2.00	17/04/2008	13:55	2.00
SBHK01 CP	SP	6.80		19/03/2008	10:45	0.88	03/04/2008	16:40	1.00	17/04/2008	11:40	0.94
SBHK02 CP	SP	11.20		19/03/2008	11:15	1.46	03/04/2008	16:45	1.48	17/04/2008	11:43	1.46
SBHK03 CP	SP	5.90		19/03/2008	11:45	1.04	03/04/2008	16:48	1.07	17/04/2008	11::46	0.98
SBHK04 CP	SP	12.20		19/03/2008	12:15	1.64	03/04/2008	16:52	1.67	17/04/2008	12:05	1.60
SBHL02 RC	SPIE	15.20		19/03/2008	12:50	2.44	03/04/2008	17:00	2.45	17/04/2008	12:00	2.45
SBHL03 RC	SPIE	15.00		20/03/2008	13:25	0.76	08/04/2008	15:40	0.64	18/04/2008	09:50	0.62
SBHM01 RC	SPIE	21.00		20/03/2008	13:05	-0.21	08/04/2008	15:48	-0.45	18/04/2008	11:55	0.01
SBHM02 RC	SPIE	20.00		20/03/2008	13:10	0.61	08/04/2008	15:52	0.61	18/04/2008	11:50	0.61
SBHN01A RC	SPIE	14.90		20/03/2008	12:55	12.14	08/04/2008	16:05	12.58	18/04/2008	12:48	13.27
SBHN02 RC	SPIE	20.40		20/03/2008	12:45	4.26	08/04/2008	16:12	2.64	18/04/2008	12:45	4.85
SBHN03 RC	SPIE	15.00		20/03/2008	12:30	1.60	08/04/2008	16:17	2.07	18/04/2008	12:35	2.37
SBHN04 RC	SPIE	10.00		20/03/2008	12:10	DRY	08/04/2008	16:28	DRY	18/04/2008	10:55	DRY

S Davis Recorded by: Checked by: I Swain Approved by: I Swain 17/03/08-17/04/08 Date: 21/04/2008 21/04/2008 Date: Date: SI GWR 2.03 07/01/2008 Form No. Revision No. Issue Date



Project Name New M4 Preliminary Ground Investigation
Project No. F15056
Engineer Ove Arup & Partners Ltd
Client Transport Wales, Welsh Assembly Government

Groundwater Readings
For Installations

Fig no.

NOTES: SPIE=Piezometer, SP=Standpipe

For multiple installations, use different Installation IDs.

For piezometers installation depth = tip depth. For standpipes = base of pipe

COMMENTS

Unable to locate LGBH05 and RBBH08. LGBH06 was blocked All groundwater levels are recorded from ground level

		llation Det		els are recor		. g	Recorded Water Level Date Time Reading Date Time Reading Date Time Read											
Exploratory Hole ID		Depth		Date	Time	Reading	Date	Time	Reading	Date	Time	Reading						
	Туре	m	ID	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m						
SBHP01 RC	SPIE	8.00		20/03/2008	12:00	DRY	08/04/2008	16:40	DRY	18/04/2008	10:45	DRY						
SBHP02 RC	SPIE	9.80		20/03/2008	11:45	5.59	08/04/2008	16:55	7.98	18/04/2008	10:30	8.20						
SBHP03 RC	SPIE	5.00		20/03/2008	11:40	2.80	08/04/2008	16:50	DRY	18/04/2008	10:25	4.93						
SBHQ01 RC	SPIE	11.80		20/03/2008	10:40	6.72	08/04/2008	17:13	7.24	18/04/2008	10:10	7.48						
SBHQ02 RC	SPIE	6.00		20/03/2008	10:45	4.91	08/04/2008	17:10	DRY	18/04/2008	10:05	DRY						
SBHQ03 RC	SPIE	11.00		20/03/2008	10:50	6.76	08/04/2008	17:05	7.69	18/04/2008	10:15	8.00						
SBHQ04 RC	SPIE	8.00		20/03/2008	11:30	6.97	08/04/2008	17:02	DRY	18/04/2008	10:40	DRY						
SBHQ06 RC	SPIE	7.35		20/03/2008	11:20	4.47	08/04/2008	17:20	6.63	18/04/2008	12:20	4.79						
SWSJ08	SP	3.30		19/03/2008	15:10	0.44	03/04/2008	16:00	0.46	17/04/2008	12:35	0.42						
SWSJ13	SP	2.50		17/03/2008	13:25	DRY	03/04/2008	18:12	DRY	17/04/2008	13:12	DRY						
SWSJ21	SP	6.00		18/03/2008	14:30	4.42	03/04/2008	17:33	5.89	17/04/2008	13:32	6.50						
SWSJ23	SP	7.80		18/03/2008	15:05	7.58	03/04/2008	17:35	7.20	17/04/2008	13:35	7.20						
SWSJ34	SP	6.00		19/03/2008	08:55	2.36	03/04/2008	17:23	3.26	17/04/2008	13:46	DRY						
SWSJ37	SP	5.60		18/03/2008	11:15	0.55	03/04/2008	17:25	0.67	17/04/2008	13:42	0.63						
LGBH02	SP	8.88		17/03/2008	12:55	7.48	03/04/2008	18:05	7.46	17/04/2008	13:00	7.48						
LGBH03	SP	8.90		17/03/2008	13:15	7.24	03/04/2008	18:08	7.32	17/04/2008	13:03	7.30						
LGBH04	SP	10.50		18/03/2008	13:20	8.87	03/04/2008	17:40	8.90	17/04/2008	13:29	8.94						
LGBH09	SP	7.00		17/03/2008	11:00	1.08	03/04/2008	17:45	1.15	17/04/2008	15:08	1.05						
LGBH10	SP	14.60		18/03/2008	15:20	8.31	03/04/2008	17:27	8.20	17/04/2008	13:40	8.70						
LGBH11	SP	11.20		18/03/2008	11:40	6.88	03/04/2008	17:18	7.00	17/04/2008	15:38	7.08						
LGBH12	SP	7.05		17/03/2008	10:00	1.30	03/04/2008	17:49	1.47	17/04/2008	15:15	1.36						
RBBH07	SP	6.25		19/03/2008	13:25	0.66	03/04/2008	15:50	0.68	17/04/2008	12:30	1.10						
RBBH09	SP	7.05		19/03/2008	14:40	1.18	03/04/2008	16:07	1.21	17/04/2008	12:42	1.25						
RBBH10	SP	6.85		19/03/2008	13:45	0.70	03/04/2008	16:03	0.75	17/04/2008	12:39	0.78						

Recorded by: S Davis Checked by: I Swain Approved by: I Swain 17/03/08-17/04/08 21/04/2008 Date: Date: 21/04/2008 Date: SI GWR 2.03 Form No. Revision No. Issue Date 07/01/2008



GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remark	s
BH525	19/03/15 12:00:00	1037	2								0.4	9		5 litres purged, base	e depth 2.60m
BH525	19/03/15 12:01:00										0.4				
BH525	19/03/15 12:02:00										0.0				
BH525	19/03/15 12:03:00										0.0				
BH525	19/03/15 12:04:00										0.0				
BH525	19/03/15 12:05:00			0.0	3.2	19.1	63.4	0	0	0.2					
BH525	19/03/15 12:06:00			0.0	2.4	19.2	55.7	0	0	0.0					
BH525	19/03/15 12:07:00			0.0	2.4	19.0	54.1	0	0	0.0					
BH525	19/03/15 12:08:00			0.0	2.2	18.9	51.3	0	0	0.0					
BH525	19/03/15 12:09:00			0.0	2.1	18.8	48.8	0	0	0.0					
BH525	19/03/15 12:10:00			0.0	2.0	18.7	46.1	0	0	0.0					
BH525	19/03/15 12:11:00			0.0	1.9	18.6	42.7	0	0	0.0					
BH525	19/03/15 12:12:00			0.0	1.6	18.4	37.0	0	0	0.0					
BH525	19/03/15 12:13:00			0.0	1.5	18.4	36.2	0	0	0.0					
BH525	19/03/15 12:14:00			0.0	1.5	18.2	33.6	0	0	0.0			1.32		
BH525	26/03/15 12:30:00	1008	-0.32								0.0	12		4 litres purged, base	e depth 2.60m
BH525	26/03/15 12:31:00										0.0				
BH525	26/03/15 12:32:00										0.0				
remarks	esult exceeding capacity													CONTRACT	CHECKE

denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Shallow install.

30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH525	26/03/15 12:33:00										0.0			
BH525	26/03/15 12:34:00										0.0			
BH525	26/03/15 12:35:00			0.0	9.9	15.0	#	0	2	0.0				
BH525	26/03/15 12:36:00			0.0	7.5	13.2	#	0	3	0.0				
BH525	26/03/15 12:37:00			0.0	5.8	11.7	#	0	3	0.0				
BH525	26/03/15 12:38:00			0.0	5.2	10.1	#	0	3	0.0				
BH525	26/03/15 12:39:00			0.0	5.0	9.1	99.0	0	3	0.0				
BH525	26/03/15 12:40:00			0.0	4.8	8.7	96.0	0	3	0.0				
BH525	26/03/15 12:41:00			0.0	4.7	8.5	93.0	0	4	0.0				
BH525	26/03/15 12:42:00			0.0	4.7	8.2	93.0	0	4	0.0				
BH525	26/03/15 12:43:00			0.0	4.6	8.0	92.0	0	4	0.0				
BH525	26/03/15 12:44:00			0.0	4.6	8.0	90.0	0	3	0.0			1.64	
BH525	02/04/15 12:00:00	1027	-0.92								0.0	9		4 litres purged, base depth 2.60m.
BH525	02/04/15 12:01:00										0.0			
BH525	02/04/15 12:02:00										0.0			
BH525	02/04/15 12:03:00										0.0			
BH525	02/04/15 12:04:00										0.0			
BH525	02/04/15 12:05:00			0.0	4.4	5.1	87.0	0	1	0.3				
remarks		of and monitor												CONTRACT CHECKED

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Shallow install.

30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remark	s
BH525	02/04/15 12:06:00			0.0	4.3	4.1	86.0	0	2	0.5					
BH525	02/04/15 12:07:00			0.0	4.3	3.6	84.0	0	1	0.2					
BH525	02/04/15 12:08:00			0.0	4.2	3.2	83.0	0	2	0.2					
BH525	02/04/15 12:09:00			0.0	4.1	3.2	81.0	0	2	0.0					
BH525	02/04/15 12:10:00			0.0	3.9	3.4	77.0	0	2	0.0					
BH525	02/04/15 12:11:00			0.0	3.8	3.8	74.0	0	2	0.0					
BH525	02/04/15 12:12:00			0.0	3.6	4.3	70.0	0	2	0.0					
BH525	02/04/15 12:13:00			0.0	3.4	4.9	67.0	0	2	0.0					
BH525	02/04/15 12:14:00			0.0	3.3	5.6	64.0	0	2	0.0			1.66		
BH525	07/05/15 14:39:00	995	1								0.4	17			
BH525	07/05/15 14:40:00										1.2				
BH525	07/05/15 14:41:00										0.0				
BH525	07/05/15 14:42:00										0.0				
BH525	07/05/15 14:43:00										0.0				
BH525	07/05/15 14:44:00			0.0	3.6	0.3	81.4	0	0	1.2					
BH525	07/05/15 14:45:00			0.0	3.7	0.1	85.2	0	0	1.2					
BH525	07/05/15 14:46:00			0.0	3.7	0.0	86.6	0	0	1.1					
BH525	07/05/15 14:47:00			0.0	3.7	0.3	83.8	0	0	1.1					
remarks	esult exceeding capacity													CONTRACT	CHECK

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene. Shallow install.

CHECKED

30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH525	07/05/15 14:48:00			0.0	3.6	0.7	82.1	0	0	1.1				
BH525	07/05/15 14:49:00			0.0	3.5	1.2	80.0	0	0	1.0				
BH525	07/05/15 14:50:00			0.0	3.3	2.2	75.9	0	0	1.0				
BH525	07/05/15 14:51:00			0.0	3.0	3.5	69.3	0	0	1.0				
BH525	07/05/15 14:52:00			0.0	2.7	4.7	62.7	0	0	1.0				
BH525	07/05/15 14:53:00			0.0	2.6	5.6	58.9	0	0	1.0				
BH525	07/05/15 14:54:00												Dry	
remarks													Г	CONTRACT CHECKED

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Shallow install.

CONTRACT 30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



BH525 19/03/15 12:14:00 2:02/4/15 12:14:00 3:02/4/15 12:14:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/15 14:55:00 3:02/4/1	Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
	BH525 BH525	26/03/15 12:44:00 02/04/15 12:14:00												2.02 1.80	57 litres purged, base depth 11.60m.

denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Deep install.

CONTRACT 30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
3H527	20/03/15 10:00:00	10332	3								1.3	7		37 litres purged, base depth
3H527	20/03/15 10:01:00										0.9			9.00m.
3H527	20/03/15 10:02:00										1.3			
3H527	20/03/15 10:03:00										0.9			
3H527	20/03/15 10:04:00										0.4			
3H527	20/03/15 10:05:00			0.0	0.0	19.8	0.0	0	0	0.5				
3H527	20/03/15 10:06:00			0.0	0.0	19.8	0.0	0	0	0.4				
3H527	20/03/15 10:07:00			0.0	0.0	19.8	0.0	0	0	0.3				
3H527	20/03/15 10:08:00			0.0	0.0	19.8	0.0	0	0	0.3				
3H527	20/03/15 10:09:00			0.0	0.0	19.7	0.0	0	0	0.8				Upsurge at 5min 10sec. Unable to obtain further readings.
3H527	20/03/15 10:14:00												0.67	obtain further readings.
3H527	27/03/15 08:30:00	1023	1								0.1	9		32 litres purged, base depth 9.00m.
3H527	27/03/15 08:31:00										0.6			3.00111.
3H527	27/03/15 08:32:00										0.4			
3H527	27/03/15 08:33:00										0.3			
3H527	27/03/15 08:34:00										0.2			
3H527	27/03/15 08:35:00			0.0	0.0	19.9	0.0	0	0	0.9				
3H527	27/03/15 08:36:00			0.0	0.0	19.9	0.0	0	0	0.6				

denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Shallow install.

CONTRACT

30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH527	27/03/15 08:37:00			0.0	0.0	19.9	0.0	0	0	0.5				
BH527	27/03/15 08:38:00			0.0	0.0	19.9	0.0	0	0	0.4				
BH527	27/03/15 08:39:00			0.0	0.0	19.9	0.0	0	0	0.3				
BH527	27/03/15 08:40:00			0.0	0.0	19.9	0.0	0	0	0.2				
BH527	27/03/15 08:41:00			0.0	0.0	19.9	0.0	0	0	0.1				
BH527	27/03/15 08:42:00			0.0	0.0	19.9	0.0	0	0	0.1				
BH527	27/03/15 08:43:00			0.0	0.0	19.9	0.0	0	0	0.1				
BH527	27/03/15 08:44:00			0.0	0.0	19.9	0.0	0	0	0.1			1.75	
BH527	13/04/15 09:30:00	1037	-1.05								0.0	12		33 litres purged, base depth 9.00m.
BH527	13/04/15 09:31:00										0.0			3.00m.
BH527	13/04/15 09:32:00										0.0			
BH527	13/04/15 09:33:00										0.0			
BH527	13/04/15 09:34:00										0.0			
BH527	13/04/15 09:35:00			0.0	3.4	19.6	61.0	0	0	2.5				
BH527	13/04/15 09:36:00			0.0	2.5	19.9	45.0	0	0	3.0				
BH527	13/04/15 09:37:00			0.0	1.8	20.1	35.0	0	0	3.1				
BH527	13/04/15 09:38:00			0.0	1.6	20.2	31.0	0	0	3.1				
BH527	13/04/15 09:39:00			0.0	1.4	20.2	26.0	0	0	3.2				
remarks	esult exceeding capacity													CONTRACT CHECK

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene. Shallow install.

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GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarl	KS .
BH527	13/04/15 09:40:00			0.0	1.2	20.3	23.0	0	0	3.1					
BH527	13/04/15 09:41:00			0.0	1.0	20.3	20.0	0	0	3.0					
BH527	13/04/15 09:42:00			0.0	0.9	20.3	18.0	0	0	3.0					
BH527	13/04/15 09:43:00			0.0	0.8	20.4	16.0	0	0	2.9					
BH527	13/04/15 09:44:00			0.0	0.8	20.3	16.0	0	0	2.9			1.48		
BH527	08/05/15 09:32:00	1001	0								0.0	15			
BH527	08/05/15 09:33:00										0.0				
BH527	08/05/15 09:34:00										0.0				
BH527	08/05/15 09:35:00										0.0				
BH527	08/05/15 09:36:00										0.0				
BH527	08/05/15 09:37:00			0.0	0.0	20.1	0.0	0	0	0.0					
BH527	08/05/15 09:38:00			0.0	0.0	20.1	0.0	0	0	0.0					
BH527	08/05/15 09:39:00			0.0	0.0	20.1	0.0	0	0	0.0					
BH527	08/05/15 09:40:00			0.0	0.0	20.1	0.0	0	0	0.0					
BH527	08/05/15 09:41:00			0.0	0.0	20.1	0.0	0	0	0.0					
BH527	08/05/15 09:42:00			0.0	0.0	20.1	0.0	0	0	0.0					
BH527	08/05/15 09:43:00			0.0	0.0	20.1	0.0	0	0	0.0					
BH527	08/05/15 09:44:00			0.0	0.0	20.1	0.0	0	0	0.0					
emarks	esult exceeding capacity													CONTRACT	CHECKI

denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene. Shallow install.

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GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarl	ks
BH527	08/05/15 09:45:00			0.0	0.0	20.1	0.0	0	0	0.0					
BH527	08/05/15 09:46:00			0.0	0.0	20.1	0.0	0	0	0.0					
BH527	08/05/15 09:47:00												2.74		
remarks														CONTRACT	

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene. Shallow install.

CONTRACT 30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



BH527 27/03/15 08:44:00	Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
	BH527 BH527 BH527 BH527	27/03/15 08:44:00 13/04/15 09:44:00												1.71 1.91	102 litres purged, base depth 19.00m.

denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Deep install.

CONTRACT

30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remark	S
BH528	20/03/15 12:00:00	1031	1								0.4	10		13 litres purged, bas 7.00m. Slow rechard purging.	se depth ge during
BH528	20/03/15 12:01:00										0.0				
BH528	20/03/15 12:02:00										0.0				
BH528	20/03/15 12:03:00										0.0				
BH528	20/03/15 12:04:00										0.0				
BH528	20/03/15 12:05:00			0.0	0.0	20.3	0.0	0	0	0.4					
BH528	20/03/15 12:06:00			0.0	0.0	20.1	0.0	0	0	0.3					
BH528	20/03/15 12:07:00			0.0	0.0	20.1	0.0	0	0	0.2					
BH528	20/03/15 12:08:00			0.0	0.0	20.1	0.0	0	0	0.1					
BH528	20/03/15 12:09:00			0.0	0.0	20.1	0.0	0	0	0.1					
BH528	20/03/15 12:10:00			0.0	0.0	20.1	0.0	0	0	0.1					
BH528	20/03/15 12:11:00			0.0	0.0	20.1	0.0	0	0	0.1					
BH528	20/03/15 12:12:00			0.0	0.0	20.1	0.0	0	0	0.1					
BH528	20/03/15 12:13:00			0.0	0.0	20.1	0.0	0	0	0.1					
BH528	20/03/15 12:14:00			0.0	0.0	20.1	0.0	0	0	0.1			0.49		
BH528	27/03/15 10:30:00	1028	-1.18								0.0	9		10 litres purged, bas 7.00m. Purging dry, recharge.	se depth with slow
emarks	esult exceeding capacity													CONTRACT	CHECK

denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene. Shallow install.

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GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



/15 10:31:00 /15 10:32:00 /15 10:33:00 /15 10:34:00 /15 10:35:00 /15 10:36:00 /15 10:37:00		0.0							0.0			
/15 10:33:00 /15 10:34:00 /15 10:35:00 /15 10:36:00		0.0							0.0			
/15 10:34:00 /15 10:35:00 /15 10:36:00		0.0							0.0			
/15 10:35:00 /15 10:36:00		0.0							0.0			
/15 10:36:00		0.0		1					0.0			
			0.0	20.9	0.0	0	0	0.0				
/15 10:37:00		0.0	0.0	20.8	0.0	0	0	0.0				
		0.0	0.0	20.8	0.0	0	0	0.0				
/15 10:38:00		0.0	0.0	20.8	0.0	0	0	0.0				
/15 10:39:00		0.0	0.0	20.8	0.0	0	0	0.0				
/15 10:40:00		0.0	0.0	20.8	0.0	0	0	0.0				
/15 10:41:00		0.0	0.0	20.7	0.0	0	0	0.0				
/15 10:42:00		0.0	0.0	20.7	0.0	0	0	0.0				
/15 10:43:00		0.0	0.0	20.7	0.0	0	0	0.0				
/15 10:44:00		0.0	0.0	20.6	0.0	0	0	0.0			0.99	
/15 12:00:00 10	1032 0.54								0.0	13		12 litres purged, base depth 7.00m. Purging dry with slow recharge.
/15 12:01:00									0.0			
45 40 00 00									0.0			
/1: /1: /1: /1:	5 10:42:00 5 10:43:00 5 10:44:00 5 12:00:00	5 10:42:00 5 10:43:00 5 10:44:00 5 12:00:00 1032 0.54 5 12:01:00	5 10:42:00 0.0 5 10:43:00 0.0 5 10:44:00 0.0 5 12:00:00 1032 0.54 5 12:01:00 0.54	5 10:42:00 0.0 0.0 5 10:43:00 0.0 0.0 5 10:44:00 0.0 0.0 5 12:00:00 1032 0.54	5 10:42:00 0.0 0.0 20.7 5 10:43:00 0.0 0.0 20.7 5 10:44:00 0.0 0.0 20.6 5 12:00:00 1032 0.54	5 10:42:00 0.0 0.0 20.7 0.0 5 10:43:00 0.0 0.0 20.7 0.0 5 10:44:00 0.0 0.0 20.6 0.0 5 12:00:00 1032 0.54 0.54	5 10:42:00 0.0 0.0 20.7 0.0 0 5 10:43:00 0.0 0.0 20.7 0.0 0 5 10:44:00 0.0 0.0 20.6 0.0 0 5 12:00:00 1032 0.54 0.54 0.0 0	5 10:42:00 0.0 0.0 20.7 0.0 0 5 10:43:00 0.0 0.0 20.7 0.0 0 5 10:44:00 0.0 0.0 20.6 0.0 0 5 12:00:00 1032 0.54	5 10:42:00 0.0 0.0 20.7 0.0 0 0.0 5 10:43:00 0.0 0.0 20.7 0.0 0 0 0.0 5 10:44:00 0.0 0.0 20.6 0.0 0 0 0.0 5 12:00:00 1032 0.54 0.54 0.0 0 0 0 0	5 10:42:00 0.0 0.0 20.7 0.0 0 0.0 5 10:43:00 0.0 0.0 20.7 0.0 0 0 0.0 5 10:44:00 0.0 0.0 20.6 0.0 0 0 0.0 5 12:00:00 1032 0.54 0.0 0 0 0 0 5 12:01:00 0.0 0.0 0 0 0 0	5 10:42:00 0.0 0.0 20.7 0.0 0 0.0 5 10:43:00 0.0 0.0 20.7 0.0 0 0 0.0 5 10:44:00 0.0 0.0 20.6 0.0 0 0 0.0 5 12:00:00 1032 0.54 0.0 0 0 0 0 0 5 12:01:00 0.0 0.0 0 0 0 0 0	5 10:42:00 0.0 0.0 20.7 0.0 0 0.0 0.0 5 10:43:00 0.0 0.0 20.7 0.0 0 0 0.0 5 10:44:00 0.0 0.0 20.6 0.0 0 0 0.0 5 12:00:00 1032 0.54 0.0 0 0 0 0 0 5 12:01:00 0.0 0.0 0 0 0 0 0

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Shallow install.

CONTRACT

30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH528	13/04/15 12:03:00										0.0			
BH528	13/04/15 12:04:00										0.0			
BH528	13/04/15 12:05:00			8.1	31.0	11.8	#	0	4	0.0				
BH528	13/04/15 12:06:00			7.8	30.0	12.1	#	0	5	0.0				Upsurge at 2min 45sec. Unable to obtain further readings.
BH528	13/04/15 12:14:00												0.58	Purging dry, with slow recharge.
BH528	08/05/15 10:36:00	1019	0								0.0	15		
BH528	08/05/15 10:37:00										0.0			
BH528	08/05/15 10:38:00										0.0			
BH528	08/05/15 10:39:00										0.0			
BH528	08/05/15 10:40:00										0.0			
BH528	08/05/15 10:41:00			0.0	0.0	20.3	0.0	0	0	0.0				
BH528	08/05/15 10:42:00			0.0	0.0	20.3	0.0	0	0	0.0				
BH528	08/05/15 10:43:00			0.0	0.0	20.2	0.0	0	0	0.0				
BH528	08/05/15 10:44:00			0.0	0.0	20.2	0.0	0	0	0.0				
BH528	08/05/15 10:45:00			1.3	0.0	19.9	0.0	0	0	0.0				
BH528	08/05/15 10:46:00			0.5	0.2	20.0	0.0	0	0	0.0				
BH528	08/05/15 10:47:00			0.0	0.0	20.2	0.0	0	0	0.0				
BH528	08/05/15 10:48:00			0.0	0.0	20.2	0.0	0	0	0.0				

denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Shallow install.

CONTRACT 30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remark	KS
BH528	08/05/15 10:49:00			0.0	0.0	20.2	0.0	0	0	0.0					
BH528	08/05/15 10:50:00			0.0	0.0	20.2	0.0	0	0	0.0					
BH528	08/05/15 10:51:00												1.63		
remarks	esult exceeding capacity	-f												CONTRACT	CHECKE

Shallow install.

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT

30238 EC

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remark	S
BH528	20/03/15 12:14:00												1.28	94 litres purged, bas 17.00m.	se depth
BH528	27/03/15 10:44:00												1.30	92 litres purged, bas 17.00m.	
BH528	13/04/15 12:14:00												1.65	92 litres purged, bas 17.00m.	
BH528	08/05/15 10:52:00												2.90		
emarks														CONTRACT	CHECK

denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Deep install.

CONTRACT

30238

EC

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH530	30/03/15 12:00:00	1014	0								0.0	10		29 litres purged, base depth
BH530	30/03/15 12:01:00										0.0			8.00m.
BH530	30/03/15 12:02:00										0.0			
BH530	30/03/15 12:03:00										0.0			
BH530	30/03/15 12:04:00										0.0			
BH530	30/03/15 12:05:00			0.0	0.0	20.3	0.0	0	0	0.5				
BH530	30/03/15 12:06:00			0.0	0.0	20.3	0.0	0	0	0.4				
BH530	30/03/15 12:07:00			0.0	0.0	20.3	0.0	0	0	0.2				
BH530	30/03/15 12:08:00			0.0	0.0	20.3	0.0	0	0	0.2				
BH530	30/03/15 12:09:00			0.0	0.0	20.3	0.0	0	0	0.1				
BH530	30/03/15 12:10:00			0.0	0.0	20.3	0.0	0	0	0.1				
BH530	30/03/15 12:11:00			0.0	0.0	20.3	0.0	0	0	0.1				
BH530	30/03/15 12:12:00			0.0	0.0	20.3	0.0	0	0	0.0				
BH530	30/03/15 12:13:00			0.0	0.0	20.3	0.0	0	0	0.0				
BH530	30/03/15 12:14:00			0.0	0.0	20.3	0.0	0	0	0.0			1.52	
BH530	14/04/15 13:30:00	1027	-0.07								0.0	16		26 litres purged, base depth 8.00m.
BH530	14/04/15 13:31:00										0.0			O.UUIII.
BH530	14/04/15 13:32:00										0.0			

denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Shallow install.

CONTRACT 30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH530	14/04/15 13:33:00										0.0			
BH530	14/04/15 13:34:00										0.0			
BH530	14/04/15 13:35:00			5.3	14.8	15.0	#	0	10	0.0				
BH530	14/04/15 13:36:00			5.3	14.7	15.1	#	0	9	0.0				
BH530	14/04/15 13:37:00			5.1	14.4	15.2	#	0	9	0.0				
BH530	14/04/15 13:38:00			5.1	14.1	15.2	#	0	8	0.0				
BH530	14/04/15 13:39:00			5.0	13.9	15.3	#	0	8	0.0				
BH530	14/04/15 13:40:00			4.9	13.6	15.4	#	0	7	0.0				
BH530	14/04/15 13:41:00			4.8	13.3	15.6	#	0	6	0.0				
BH530	14/04/15 13:42:00			4.8	13.4	15.5	#	0	4	0.0				
BH530	14/04/15 13:43:00			4.8	13.2	15.5	#	0	6	0.0				
BH530	14/04/15 13:44:00			4.7	13.0	15.4	#	0	4	0.0			2.07	
BH530	21/04/15 09:30:00	1040	-0.82								0.0	12		27 litres purged, base depth 8.00m.
BH530	21/04/15 09:31:00										0.0			6.00111.
BH530	21/04/15 09:32:00										0.0			
BH530	21/04/15 09:33:00										0.0			
BH530	21/04/15 09:34:00										0.0			
BH530	21/04/15 09:35:00			3.7	8.4	17.7	#	0	1	0.3				
remarks														CONTRACT CHECKE

denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Shallow install.

CONTRACT 30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remark	is .
BH530	21/04/15 09:36:00			2.6	5.2	18.7	97.0	0	1	0.5					
BH530	21/04/15 09:37:00			2.0	3.7	19.2	69.0	0	1	0.7					
BH530	21/04/15 09:38:00			1.6	3.0	19.4	55.0	0	0	1.1					
BH530	21/04/15 09:39:00			1.3	2.2	19.7	42.0	0	0	1.1					
BH530	21/04/15 09:40:00			1.2	1.9	19.7	37.0	0	0	1.1					
BH530	21/04/15 09:41:00			1.0	1.6	19.9	30.0	0	0	1.1					
BH530	21/04/15 09:42:00			0.8	1.4	19.9	27.0	0	0	1.1					
BH530	21/04/15 09:43:00			0.7	1.2	20.0	24.0	0	0	1.0					
BH530	21/04/15 09:44:00			0.7	1.1	20.0	22.0	0	0	1.0			1.84		
BH530	11/05/15 09:21:00	1019	0								0.0	15			
BH530	11/05/15 09:22:00										0.0				
BH530	11/05/15 09:23:00										0.0				
BH530	11/05/15 09:24:00										0.0				
BH530	11/05/15 09:25:00										0.0				
BH530	11/05/15 09:26:00			0.0	0.0	20.2	0.0	0	0	0.0					
BH530	11/05/15 09:27:00			0.1	0.0	20.1	1.3	0	0	0.0					
BH530	11/05/15 09:28:00			0.4	0.2	20.0	7.0	0	0	0.0					
BH530	11/05/15 09:29:00			0.6	0.4	19.9	10.3	0	0	0.0					
remarks	esult exceeding canacity of													CONTRACT	CHECKE

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene. Shallow install.

CHECKED

30238

EC

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remar	ks
BH530	11/05/15 09:30:00			0.8	0.5	19.9	12.9	0	0	0.0					
BH530	11/05/15 09:31:00			0.9	0.6	19.8	15.0	0	0	0.0					
BH530	11/05/15 09:32:00			0.9	0.6	19.8	15.4	0	0	0.0					
BH530	11/05/15 09:33:00			1.2	0.7	19.7	18.9	0	0	0.0					
BH530	11/05/15 09:34:00			0.5	0.6	19.9	11.2	0	0	0.0					
BH530	11/05/15 09:35:00			0.0	0.0	20.1	0.0	0	0	0.0					
BH530	11/05/15 09:36:00												2.62		
emarks														CONTRACT	TCHECK

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Shallow install.

CONTRACT 30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remark	s
BH530	30/03/15 12:14:00												2.00	114 litres purged, b 21.00m.	ase depth
BH530	14/04/15 13:44:00												2.19	112 litres purged, b 21.00m.	ase depth
3H530	21/04/15 09:44:00												2.44	111 litres purged, b 21.00m.	
3H530	11/05/15 09:37:00												3.49		
emarks														CONTRACT	CHECK

denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene. Deep install.

30238

A3 Appendix 3

Soil Laboratory Data

M4CAN
Soil Analysis Results & Screening Assessment
CL-27
01/07/2015

Sample Reference		внк3	внк3	ВНК4	BHK4	CH51	CH52A	CH53A	CH54A	RBBH003	RBBH004	RBBH005	SBHK03 CP	SBHK02 CP	STPK01	STPK02	BH526	BH526	BH527	BH527	BH530	TP510	TP510
•	-																						
Location Type		BH	BH	BH	BH	TP	TP	TP	TP	BH	BH	BH	BH	BH	TP	TP	BH	BH	BH	BH	BH	TP	TP
Specimen Depth (m)	-	0	1	1	2	0	0.3	0.4	0.4	0.5	0.5	0.5	1	1	0.34	0.3	0.0 - 0.2	0.4 - 0.5	0.2 - 0.3	0.5 - 1.0	0.2 - 0.5	0.0 - 0.3	1.0 - 1.2
OD Level (m)	1	6	5	4.5	3.5	5.73	5.19	5.13	5.95				4.83	4.53	5.24	5.74	5.95	5.55	5.75	5.25	6.05	5.9	4.9
Sample Type	Units	В	В	D	D	D	D	D	D				ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Geology Code	Offics	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Cluster Code		1997 GI	1997 GI	1997 GI	1997 GI	2000 GI	2000 GI	2000 GI	2000 GI	2002 GI	2002 GI	2002 GI	2007 GI	2007 GI	2007 GI	2007 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI
Inorganics																							
Antimony	mg/kg												21	36	<1.5	14							
Arsenic	mg/kg	11.7	12.2	3.6	4.2	2.82	15.2	1.15	8.3	<3	<3	<3	<3	<3	<3	10	32	34	38	38	19	55	41
Barium	mg/kg												120	71	80	81							
Boron	mg/kg	< 0.2	< 0.2	1.5	0.9	0.9	1.6	6	0.8	2.7	1.1	2.8					0.64	0.63	1.9	1.9	1.6	1.9	1.4
Boron Water Soluble	mg/kg												3.5	<3.5	<3.5	<3.5							
Cadmium	mg/kg	0.8	0.7	8	8.6	0.13	0.15	1.6	0.13	<1	<1	<1	<0.3	<0.3	0.6	<0.3	0.28	0.27	0.4	0.32	<0.1	0.26	<0.1
Chromium	mg/kg	46.7	51.5	561.4	504.3	706	53	670	36	913	305	805	590	590	55	440	140	170	890	920	47	1200	1200
Copper	mg/kg	32.9	26.1	21.6	18.1	24	15	19	10	17	18	9	<6	7	10	6	0	2.1	11	29	20	19	14
Lead	mg/kg	46.7	43	60.9	60.9	62	59	71	35	66	57	32	28	460	38	<2	7.7	6.9	11	12	33	63	20
Mercury	mg/kg	0.1	< 0.1	0.4	0.4	0.07	< 0.01	0.02	< 0.01	< 0.5	< 0.5	<0.5	<0.6	<0.6	<0.6	< 0.6	0.26	0.33	1.3	1.2	< 0.1	0.48	0.62
Molybdenum	mg/kg												<0.6	1.5	<0.6	<0.6							
Manganese	mg/kg									42100	16700	6600											
Nickel	mg/kg	43.1	51.1	40.2	40.2	5	42	7	27	2	6	6	< 0.9	<0.9	4	< 0.9	16	19	40	54	36	34	63
Selenium	mg/kg	0.3	0.2	0.1	<0.1	1.63	<0.5	1.6	<0.5	1.22	3.44	1.15	<3	<3	<3	<3	0	0	<0.2	<0.2	<0.2	<0.2	<0.2
Zinc	mg/kg	115.2	99.6	85.9	80.8	69	118	61	69	60	57	65	170	73	110	120	53	48	140	140	120	240	87
Iron	mg/kg				00.0	14300		131000		168000	87000	169000		110000									
Cyanide (total)	mg/kg	0.2	0.2	0.2	0.1	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide (free)	mg/kg	<0.1	<0.1	<0.1	<0.1		<1	<1				- 12					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thiocyanate	mg/kg	<1	<1	<1	<1					<0.5	1	0.8					10.5	10.5	10.5	-0.5	10.5	10.5	10.5
Ferro/ferricyanide	mg/kg	<10	<10	<10	<10					10.5	-	0.0											
Acid Soluble Sulphate	mg/kg	110	120	110	110	4020	678	2660	866	2160	5820	2750											
Sulphate (soluble)	g/l					1020	0,0	2000	000	2100	3020	2730	<0.003	<0.003	0.076	<0.003							
Sulphate (total)	mg/kg	650	297	828	1146								10.005	10.005	0.070	10.003							
Sulphide	mg/kg	2.3	3.1	27.4	21.8	6	<1	66															_
Other	IIIg/kg	2.3	3.1	27.4	21.0	0	\1	00															
	None												NED	NED	NED	NFD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Asbestos Presence Screen Asbestos Identification	None %	ļ					-		-	-			NFD	NFD	NFD	NFD	<0.001	<0.001	<0.001	<0.001	<0.001	NAD <0.001	<0.001
Loss on Ignition	%						-		-				1.2	1.1	1.7	3.2	<0.001	\U.UU1	<0.001	<0.001	<0.001	<0.001	<0.001
	%						-		-				0.3	<0.2	0.9	0.4	-		-				
Total Organic Carbon	%						-		-				U.3	<0.2	0.9	0.4	-		-				
Organic Matter pH Value		7.0	0.1	11.5	11.5	12.2		12.2	10	12.0	12.4	12.7	11 72	12.21	8.6	12.52	10.0	10.0	12.2	12.2	0.1	12.0	12.0
	pH Units	7.8	8.1	11.5	11.5	12.2	8	12.2	10	12.9	12.4	12.7	11.73	12.31	8.6	12.53	10.9	10.9	12.3	12.2	8.1	12.8	12.9
Material >2mm	%																						
Organics						00	44	26	-10														
PAH (Screening)	mg/kg	ļ				82	11	26	<10	ļ							-		-		ļ		
TPH FTIR (AR)	mg/kg					198	37	225	<20														
OIL FTIR	mg/kg					585	95	164	77	<u> </u>													
Phenols																							
		1	1	1	1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			1		l						1
Phenol Index	mg/kg																						
Phenol Index Phenols Monohydric Phenols (total)	mg/kg mg/kg mg/kg	<1 <1	<1 <1	<1 <1	<1 <1								<0.15	<0.15	<0.15	<0.15							

M4CAN Soil Analysis Results & Screening Assessment CL-27 01/07/2015

Geological Formation legend

MG Made Ground

TFD Tidal Flat Deposits

Sample Reference		CH52A	CH53A	SBHK01 CP	SBHK02 CP	SBHK02 CP	SBHK03 CP	SBHK03 CP	SBHK04 CP	SBHK04 CP	STPK01	STPK01	STPK01	STPK02	STPK02	STPK02	BH526	BH528	BH529	BH530	TP510	TP512	TP513
Location Type		TP	TP	BH	BH	BH	BH	BH	BH	BH	TP	TP	TP	TP	TP	TP	BH	BH	BH	BH	TP	TP	TP
Specimen Depth (m)		1.2	1.1	3	3	4.5	2	7	0.3	1	1.2	1.27	3	1.24	2	3	1.5 - 1.7	0.25 - 0.4	0.0 - 0.4	0.8 - 1.0	1.8 - 2.0	0.0 - 0.1	1.0 - 1.1
OD Level (m)		4.29	4.43	2.26	2.53	1.03	3.83	-1.17	5.25	4.55	4.38	4.31	2.58	4.8	4.04	3.04	4.45	4.95	5.1	5.45	4.1	5.1	5.3
Sample Type		D	D	U	ES	U	ES	U	ES	ES	В	ES	В	ES	В	В	ES	ES	ES	ES	ES	ES	ES
Geology Code	Units	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD
Cluster Code		2000 GI	2000 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI
Inorganics																							
Antimony	mg/kg				2.9		2.3		2.6	2.3		1.8		3.2									
Arsenic	mg/kg	2.23	13.2		6		5		11	4		7		10			16	18	8.3	19	6.9	13	14
Barium	mg/kg				32		47		49	57		76		<6								1	
Boron	mg/kg	2	1														0.8	1.5	1.2	1.3	1.3	2.2	0.66
Boron Water Soluble	mg/kg				<3.5		<3.5		<3.5	<3.5		<3.5		<3.5								1	
Cadmium	mg/kg	0.14	0.17		<0.3		<0.3		<0.3	<0.3		< 0.3		<0.3			0.19	<0.1	<0.1	<0.1	<0.1	0.26	< 0.1
Chromium	mg/kg	647	48		32		48		43	35		49		1800			110	44	32	44	36	32	32
Copper	mg/kg	23	13		10		10		10	9		<6		45			4.9	4.1	9	13	2.7	12	8.5
Lead	mg/kg	65	53		980		21		25	19		20		25			27	28	19	34	9.4	36	19
Mercury	mg/kg	<0.01	< 0.01		<0.6		<0.6		<0.6	<0.6		<0.6		<0.6			0.16	<0.1	<0.1	<0.1	<0.1	0.12	< 0.1
Molybdenum	mg/kg				<0.6		<0.6		0.8	<0.6		<0.6		<0.6									
Manganese	mg/kg																						
Nickel	mg/kg	4	38		21		24		32	36		26		30			29	35	24	34	9.8	27	32
Selenium	mg/kg	1.46	<0.5		<3		<3		<3	<3		<3		<3			<0.2	<0.2	<0.2	<0.2	0.31	0.21	<0.2
Zinc	mg/kg	44	130		660		160		100	95		100		100			100	120	71	110	30	74	68
Iron	mg/kg				24000																		
Cyanide (total)	mg/kg	<1	<1		<1		<1		<1	<1		<1		<1			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide (free)	mg/kg	<1	<1														<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thiocyanate	mg/kg																						
Ferro/ferricyanide	mg/kg																						
Acid Soluble Sulphate	mg/kg	1750	644																				
Sulphate (soluble)	g/l				0.1		0.56		0.018	0.021		0.081		0.042									
Sulphate (total)	mg/kg																						
Sulphide	mg/kg	48	<1																				
Other						1	1	1	1	ı													
Asbestos Presence Screen	None				NFD		NFD		NFD	NFD		NFD		NFD			NAD					 	
Asbestos Identification	%																<0.001						
Loss on Ignition	%								5.1													—	
Total Organic Carbon	%	 							58			0.7											
Organic Matter	%			1.9		2.3		1.6			2.2		2		1.3	2.1							
pH Value	pH Units	12.3	9		8.28		8.2		7.95	8.26		8.29		8.62			9.9	8	8.2	8.2	10.8	7.1	8.3
Material >2mm	%			<0.1		7.4		<0.1			57.2		<0.1		57.7	1.4							
Organics																							
PAH (Screening)	mg/kg	12	<10																			 	
TPH FTIR (AR)	mg/kg	190	55																			 	
OIL FTIR	mg/kg	133	43																				
Phenols																							
Phenol Index	mg/kg	<0.5	<0.5																			 	
Phenols Monohydric	mg/kg																						
Phenois (total)	mg/kg			1	<0.15		<0.15		<0.15	<0.15		<0.15		<0.15									

M4CAN
Soil Analysis Results & Screening Assessment
CL-27
01/07/2015

Screening Values and Assessment

Exceeds S4ULs criteria

X Laboratory detection level higher than screening criterion

Notes

Sample Reference
Location Type
Specimen Depth (m)
OD Level (m)
Sample Type
Geology Code
Uni

NFD = No Fibres Detected NAD = No Asbestos Detected Chromium VI criteria used

Elemental Mercury criteria used

Screening criterion for lead is C4SL in the absence of a S4UL

Geology Code	Units							
Cluster Code		No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	Selected S4ULs Criteria	No. Data Exceeding S4ULs Criteria
Inorganics								
Antimony	mg/kg	10	9	36	1.8	SBHK02 CP @ 1mbGL		1
Arsenic	mg/kg	37	31	55	1.15	TP510 @ 0.0 - 0.3mbGL	170	0
Barium	mg/kg	10	9	120	32	SBHK03 CP @ 1mbGL		1
Boron	mg/kg	27	25	6	0.63	CH53A @ 0.4mbGL	46000	0
Boron Water Soluble	mg/kg	10	1	3.5	3.5	SBHK03 CP @ 1mbGL		9
Cadmium	mg/kg	37	18	8.6	0.13	BHK4 @ 2mbGL	190	0
Chromium	mg/kg	37	37	1800	32	STPK02 @ 1.24mbGL	33	33
Copper	mg/kg	37	35	45	0	STPK02 @ 1.24mbGL	44000	0
Lead	mg/kg	37	36	980	6.9	SBHK02 CP @ 3mbGL	1300	0
Mercury	mg/kg	37	13	1.3	0.02	BH527 @ 0.2 - 0.3mbGL	30	0
Molybdenum	mg/kg	10	2	1.5	0.8	SBHK02 CP @ 1mbGL		8
Manganese	mg/kg	3	3	42100	6600	RBBH003 @ 0.5mbGL		0
Nickel	mg/kg	37	34	63	2	TP510 @ 1.0 - 1.2mbGL	980	0
Selenium	mg/kg	37	13	3.44	0	RBBH004 @ 0.5mbGL	1800	0
Zinc	mg/kg	37	37	660	30	SBHK02 CP @ 3mbGL	170000	0
Iron	mg/kg	7	7	169000	14300	RBBH005 @ 0.5mbGL		0
Cyanide (total)	mg/kg	37	5	3	0.1	CH51 @ 0mbGL		32
Cyanide (free)	mg/kg	22	0	None > LOD	None > LOD			22
Thiocyanate	mg/kg	7	2	1	0.8	RBBH004 @ 0.5mbGL		5
Ferro/ferricyanide	mg/kg	4	0	None > LOD	None > LOD			4
Acid Soluble Sulphate	mg/kg	9	9	5820	644	RBBH004 @ 0.5mbGL		0
Sulphate (soluble)	g/l	10	7	0.56	0.018	SBHK03 CP @ 2mbGL		3
Sulphate (total)	mg/kg	4	4	1146	297	BHK4 @ 2mbGL		0
Sulphide	mg/kg	9	7	66	2.3	CH53A @ 0.4mbGL		2
Other								
Asbestos Presence Screen	None	18	0	None > LOD	None > LOD			18
Asbestos Identification	%	8	0	None > LOD	None > LOD			8
Loss on Ignition	%	5	5	5.1	1.1	SBHK04 CP @ 0.3mbGL		0
Total Organic Carbon	%	6	5	58	0.3	SBHK04 CP @ 0.3mbGL		1
Organic Matter	%	7	7	2.3	1.3	SBHK02 CP @ 4.5mbGL		0
pH Value	pH Units	37	37	12.9	7.1	RBBH003 @ 0.5mbGL	6-9	20
Material >2mm	%	7	4	57.7	1.4	STPK02 @ 2mbGL		3
Organics								
PAH (Screening)	mg/kg	6	4	82	11	CH51 @ 0mbGL	1.1	4
TPH FTIR (AR)	mg/kg	6	5	225	37	CH53A @ 0.4mbGL	3200	0
OIL FTIR	mg/kg	6	6	585	43	CH51 @ 0mbGL		0
Phenois	<u> </u>					-		-
Phenol Index	mg/kg	9	0	None > LOD	None > LOD		440	0
Phenols Monohydric	mg/kg	4	0	None > LOD	None > LOD		440	0
Phenois (total)	mg/kg	14	0	None > LOD	None > LOD		440	0
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TREACH PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE PRINCE P			1	1	+		-	1	-	-	1	-	-			-								$\overline{}$
First-CLCS mg/kg			 			<u> </u>	<u> </u>						-			-	1							
Applicit C-GC Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Might Migh					1						1													
Aliphates S-GE-GB														< 0.01	< 0.01	<0.01	< 0.01					<0.1	<0.1	<0.1
Aligheites C-20 C-12 mg/kg																								<0.1
Alighatics C-10-C12	Aliphatics >C8-C10													< 0.01	< 0.01	<0.01	< 0.01					<0.1	<0.1	<0.1
Alphatics C-12-C16 mg/kg														< 0.01	< 0.01	< 0.01							<1	
Alphatics C-21:55 mg/kg	Aliphatics >C12-C16													< 0.1	< 0.1	< 0.1	< 0.1					<1	<1	<1
Total Alphatics CS-C35	Aliphatics >C16-C21	mg/kg												<0.1	<0.1	<0.1	<0.1					<1	<1	<1
Alphatics 253-44	Aliphatics >C21-C35	mg/kg												3.6	10	12	40					<1	<1	<1
Acomatics CS-CS														3.6	10	12	40							
Anomatics GG CT																								
Acomatics SCR-SCI																						<0.1	<0.1	<0.1
Acomatics > ECR + CLO																								
Acomatics \(\frac{1}{2}\) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(\text{Pife} \) \(
Acmanics SECLECIS mg/kg																								
Aromatics > EC16 - EC21																								
Normatics Set Mg/kg																								
Total Anomatics C4-0.35 mg/kg																								
Aromatics > C35-44																						-/1		
Total Aliphatic TPH																						<1	<1	<1
Total Aromatic TPH																								<5
Total petroleum hydrocarbons mg/kg																								<5
PAH	TPH (Aliphatics and Aromatics C5-C35)	mg/kg												12	12	18	49							
Acenaphthene mg/kg	Total petroleum hydrocarbons	mg/kg																				<10	<10	<10
Acenaphthylene	PAH																							
Anthracene	Acenaphthene	mg/kg												0.027	< 0.014	< 0.014	<0.014	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene mg/kg		mg/kg																		<0.1				<0.1
Benzo(a)pyrene mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/	Anthracene	mg/kg																						<0.1
Benzo(b) fluoranthene mg/kg																								
Benzo(ghi)perylene																								<0.1
Benzo(k)fluoranthene mg/kg			ļ	ļ	1			<u> </u>	ļ		1													<0.1
Chrysen			ļ	ļ	1			<u> </u>	ļ		1													<0.1
Dibenzo(ah)anthracene mg/kg	1 1	0. 0	 																					
Fluoranthene mg/kg			1	-	1	-	-	-	 		1	-	-											
Fluorene mg/kg			1		1	1		-	-	-	1													
Indeno(123cd)pyrene mg/kg 0.16 <0.011 0.1 0.021 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <			1	-	1	-	-	-	 		1	-	-											
Naphthalene mg/kg 0.033 <0.01 0.089 0.018 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1			-				-				-	-	-											
Phenanthrene mg/kg 0.33 <0.021 0.16 0.046 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1			1		1		-	1	 	 	1													
Pyrene mg/kg 0.37 <0.022 0.23 0.038 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1			 		1						-													
			1	-	1			-	-	-	1													
1/08/15 1 mg//g 1	PAH 16 Total	mg/kg	 	1	+				-	-	I			3.2	<0.022	2	0.038	<2	<2	<2	<2	<2	<2	<2

Sample Reference		CH52A	CH53A	SBHK01 CP	SRHKO2 CP	SRHKO2 CP	SBHK03 CP	SRHKO3 CP	SRHKO4 CP	SRHKO4 CP	STPK01	STPK01	STPK01	STPK02	STPK02	STPK02	BH526	BH528	BH529	BH530	TP510	TP512	TP513
Location Type		TP	TP	BH	BH	BH	BH	BH	BH	BH	TP	TP	TP	TP	TP	TP	BH	BH	BH	BH	TP	TP	TP
Specimen Depth (m)		1.2	1.1	3	3	4.5	2	7	0.3	1	1.2	1.27	3	1.24	2	3	1.5 - 1.7	0.25 - 0.4	0.0 - 0.4	0.8 - 1.0	1.8 - 2.0	0.0 - 0.1	1.0 - 1.1
OD Level (m)		4.29	4.43	2.26	2.53	1.03	3.83	-1.17	5.25	4.55	4.38	4.31	2.58	4.8	4.04	3.04	4.45	4.95	5.1	5.45	4.1	5.1	5.3
Sample Type		D	D	U	ES	U	ES	U	ES	ES	В	ES	В	ES	В	В	ES	ES	ES	ES	ES	ES	ES
Geology Code	Units	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD
Cluster Code		2000 GI		2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI		2007 GI	2007 GI			2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	
BTEX			1								1												
GRO (C4-C12)	mg/kg				<0.01		<0.01		<0.01	< 0.01		0.025		<0.01									
MTBE	mg/kg				< 0.01		< 0.01		<0.01	< 0.01		<0.01		< 0.01						< 0.001			
Benzene	mg/kg				<0.01		<0.01		<0.01	<0.01		<0.01		<0.01			<0.001	<0.001		<0.001			
Toluene	mg/kg				<0.01		<0.01		<0.01	<0.01		<0.01		<0.01			<0.001	<0.001		<0.001			
Ethyl benzene	mg/kg				<0.01		<0.01		<0.01	<0.01		<0.01		< 0.01			<0.001	<0.001		<0.001			
m & p Xylene	mg/kg				<0.01		<0.01		<0.01	<0.01		0.025		<0.01			<0.001	<0.001		<0.001			
o Xylene	mg/kg				<0.01		<0.01		<0.01	<0.01		<0.01		< 0.01			<0.001	<0.001		<0.001			
ТРН				1	1	ı																	
TPH >C6-C8.	mg/kg		1								1	-	-	-					 	<1	<1	ļ	
TPH >C8-C10. TPH >C10-C12.	mg/kg		 								 	-	-	-					 	<1	<1		
TPH >C10-C12. TPH >C12-C16.	mg/kg	-	1								1	-	-	-	-	-			1	<1	<1		\vdash
	mg/kg		 								 	-	-	-	-	-			 	<1	<1	-	\longmapsto
TPH >C16-C21. TPH >C21-C35.	mg/kg																			<1 <1	<1 <1		
Aliphatics C5-C6	mg/kg				<0.01		<0.01		<0.01	< 0.01		<0.01		<0.01			<0.1	<0.1		<1	<1		
Aliphatics >C6-C8	mg/kg mg/kg				<0.01		<0.01		<0.01	<0.01		<0.01		<0.01			<0.1	<0.1					
Aliphatics >C8-C10					<0.01		<0.01		<0.01	<0.01		<0.01		<0.01			<0.1	<0.1					
Aliphatics >C8-C10 Aliphatics >C10-C12	mg/kg mg/kg				<0.01		<0.01		<0.01	<0.01		<0.01		<0.01			<1	<1					
Aliphatics >C10-C12	mg/kg				<0.01		0.53		<0.1	<0.01		<0.01		<0.01			<1	<1					
Aliphatics >C16-C21	mg/kg				<0.1		2.3		<0.1	3.3		1.2		<0.1			<1	<1					
Aliphatics >C16-C21 Aliphatics >C21-C35	mg/kg				6.7		2.3		14	17		2.1		<0.1			<1	<1					
Total Aliphatics C5-C35	mg/kg				6.7		5.6		14	20		3.3		<0.1			\1	\1					
Aliphatics >C35-44	mg/kg				0.7		5.0		14	20		3.3		VO.1			<1	<1					
Aromatics > C5-C7	mg/kg																<0.1	<0.1					
Aromatics C6-C7	mg/kg				< 0.01		< 0.01		< 0.01	< 0.01		<0.01		< 0.01			10.1	-0.1					
Aromatics >C7-C8	mg/kg				<0.01		< 0.01		<0.01	<0.01		<0.01		<0.01			<0.1	<0.1					
Aromatics >EC8-EC10	mg/kg				<0.01		<0.01		<0.01	<0.01		0.025		<0.01			<0.1	<0.1					
Aromatics >EC10-EC12	mg/kg				<0.01		< 0.01		<0.01	<0.01		<0.01		<0.01			<1	<1					
Aromatics >EC12-EC16	mg/kg				6.1		7.4		<0.1	<0.1		<0.1		2.3			<1	<1					
Aromatics >EC16-EC21	mg/kg				5.3		2.2		0.86	1.5		< 0.1		1.3			<1	<1					
Aromatics >EC21-EC35	mg/kg				21		20		13	14		3.5		14			<1	<1					
Total Aromatics C6-C35	mg/kg				33		30		14	15		3.5		17									
Aromatics >C35-44	mg/kg																<1	<1					
Total Aliphatic TPH	mg/kg																<5	<5					
Total Aromatic TPH	mg/kg																<5	<5					
TPH (Aliphatics and Aromatics C5-C35)	mg/kg				40		35		29	35		6.8		17									
Total petroleum hydrocarbons	mg/kg																<10	<10					
PAH																							
Acenaphthene	mg/kg				<0.014		<0.014		<0.014	<0.014		0.014		<0.014			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg				<0.005		<0.005		0.006	0.005		< 0.005		<0.005			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg				<0.009		<0.009		0.01	<0.009		0.017		<0.009			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene	mg/kg				0.027		0.05		0.017	0.022		0.085		0.31			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1
Benzo(a)pyrene	mg/kg				0.014		0.017		0.014	<0.012		0.1		<0.012			< 0.1	<0.1	<0.1	<0.1	< 0.1	<0.1	< 0.1
Benzo(b)fluoranthene	mg/kg				0.021		0.035		<0.016	<0.016		0.08		<0.016			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg				0.015		0.028		<0.01	<0.01		0.064		<0.01			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg				<0.025		<0.025		<0.025	<0.025		0.072		<0.025			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg		<u> </u>		<0.026		0.048		0.025	0.012	<u> </u>	0.082		0.01	1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg		l		<0.008		0.01		<0.008	<0.008	l	0.012		<0.008	ļ		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg		<u> </u>		<0.025		0.05		0.028	<0.025	<u> </u>	0.11		<0.025	1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg		l		<0.012		<0.012		<0.012	<0.012	l	<0.012		<0.012	ļ		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123cd)pyrene	mg/kg		1		<0.011		0.017		<0.011	<0.011	1	0.047		<0.011			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	mg/kg		l		0.013		<0.01		0.03	0.028	l	0.027		0.014	ļ		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg		 		0.037		0.036		0.036	<0.021	 	0.072		<0.021			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg				0.022		0.041		0.028	<0.022		0.11		<0.022	-		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
PAH 16 Total	mg/kg	ļ			0.18		0.33		0.19	0.067		0.9		0.055			<2	<2	<2	<2	<2	<2	<2

Notes

Sample Reference Location Type Specimen Depth (m)
OD Level (m) Sample Type

NFD = No Fibres Detected NAD = No Asbestos Detected Chromium VI criteria used Elemental Mercury criteria used

Screening criterion for lead is C4SL in the absence of a S4UL

Geology Code	Units	Screening crite	illoii ioi leau is	C45E III (IIC db	serice or a 54c	,,,	1	
Geology Code								
Cluster Code		No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	Selected S4ULs Criteria	No. Data Exceeding S4ULs Criteria
BTEX	•					•		
GRO (C4-C12)	mg/kg	10	2	0.025	0.014	STPK01 @ 1.27mbGL		8
MTBE	mg/kg	12	0	None > LOD	None > LOD	_		12
Benzene	mg/kg	16	0	None > LOD	None > LOD		27	0
Toluene	mg/kg	16	0	None > LOD	None > LOD		56000	0
Ethyl benzene	mg/kg	16	0	None > LOD	None > LOD		5700	0
m & p Xylene	mg/kg	16	2	0.025	0.014	STPK01 @ 1.27mbGL	5900	0
o Xylene	mg/kg	16	0	None > LOD	None > LOD		6600	0
TPH								
TPH >C6-C8.	mg/kg	6	0	None > LOD	None > LOD		7800	0
TPH >C8-C10.	mg/kg	6	0	None > LOD	None > LOD		2000	0
TPH >C10-C12.	mg/kg	6	0	None > LOD	None > LOD		9200	0
TPH >C12-C16.	mg/kg	6	1	6.6	6.6	BH526 @ 0.4 - 0.5mbGL	10000	0
TPH >C16-C21.	mg/kg	6	3	11	3.1	BH526 @ 0.4 - 0.5mbGL	7600	0
TPH >C21-C35.	mg/kg	6	2	28	4.7	BH526 @ 0.4 - 0.5mbGL	7800	0
Aliphatics C5-C6	mg/kg	15	0	None > LOD	None > LOD		3200	0
Aliphatics >C6-C8	mg/kg	15	0	None > LOD	None > LOD		7800	0
Aliphatics >C8-C10	mg/kg	15	0	None > LOD	None > LOD		2000	0
Aliphatics >C10-C12	mg/kg	15	0	None > LOD	None > LOD		9700	0
Aliphatics >C12-C16	mg/kg	15	1	0.53	0.53	SBHK03 CP @ 2mbGL	25000	0
Aliphatics >C16-C21	mg/kg	15	3	3.3	1.2	SBHK04 CP @ 1mbGL	450000	0
Aliphatics >C21-C35	mg/kg	15	9	40	2.1	STPK02 @ 0.3mbGL	450000	0
Total Aliphatics C5-C35	mg/kg	10	9	40	3.3	STPK02 @ 0.3mbGL	2000	0
Aliphatics >C35-44	mg/kg	5	0	None > LOD	None > LOD		450000	0
Aromatics >C5-C7	mg/kg	5	0	None > LOD	None > LOD		26000	0
Aromatics C6-C7	mg/kg	10	0	None > LOD	None > LOD		7800	0
Aromatics >C7-C8	mg/kg	15	0	None > LOD	None > LOD		56000	0
Aromatics >EC8-EC10	mg/kg	15	2	0.025	0.014	STPK01 @ 1.27mbGL	3500	0
Aromatics >EC10-EC12	mg/kg	15	0	None > LOD	None > LOD		9200	0
Aromatics >EC12-EC16	mg/kg	15	4	7.4	1.7	SBHK03 CP @ 2mbGL	10000	0
Aromatics >EC16-EC21	mg/kg	15	7	5.3	0.86	SBHK02 CP @ 3mbGL	7600	0
Aromatics >EC21-EC35	mg/kg	15	10	21	1.9	SBHK02 CP @ 3mbGL	7800	0
Total Aromatics C6-C35	mg/kg	10	10	33	1.9	SBHK02 CP @ 3mbGL	3500	0
Aromatics >C35-44	mg/kg	5	0	None > LOD	None > LOD		7800	0
Total Aliphatic TPH	mg/kg	5	0	None > LOD	None > LOD		2000	0
Total Aromatic TPH	mg/kg	5	0	None > LOD	None > LOD			5
TPH (Aliphatics and Aromatics C5-C35)	mg/kg	10	10	49	6.8	STPK02 @ 0.3mbGL	2000	0
Total petroleum hydrocarbons	mg/kg	5	0	None > LOD	None > LOD		2000	0
PAH								
Acenaphthene	mg/kg	24	2	0.027	0.014	SBHK03 CP @ 1mbGL	29000	0
Acenaphthylene	mg/kg	24	5	0.012	0.005	STPK01 @ 0.34mbGL	29000	0
Anthracene	mg/kg	24	4	0.074	0.01	SBHK03 CP @ 1mbGL	150000	0
Benz(a)anthracene	mg/kg	24	9	0.31	0.017	STPK02 @ 1.24mbGL	49	0
Benzo(a)pyrene	mg/kg	24	7	0.21	0.014	SBHK03 CP @ 1mbGL	11	0
Benzo(b)fluoranthene	mg/kg	24	6	0.36	0.021	SBHK03 CP @ 1mbGL	13	0
Benzo(ghi)perylene	mg/kg	24	6	0.2	0.015	SBHK03 CP @ 1mbGL	1400	0
Benzo(k)fluoranthene	mg/kg	24	4	0.2	0.031	SBHK03 CP @ 1mbGL	370	0
Chrysene	mg/kg	24	8	0.43	0.01	SBHK03 CP @ 1mbGL	93	0
Dibenzo(ah)anthracene	mg/kg	24	4	0.071	0.01	SBHK03 CP @ 1mbGL	1.1	0
Fluoranthene	mg/kg	24	6	0.43	0.028	SBHK03 CP @ 1mbGL	6300	0
Fluorene	mg/kg	24	2	0.036	0.014	SBHK03 CP @ 1mbGL	20000	0
Indeno(123cd)pyrene	mg/kg	24	5	0.16	0.017	SBHK03 CP @ 1mbGL	150	0
Naphthalene	mg/kg	24	8	0.089	0.013	STPK01 @ 0.34mbGL	190	0
Phenanthrene	mg/kg	24	7	0.33	0.036	SBHK03 CP @ 1mbGL	6200	0
Pyrene	mg/kg	24	7	0.37	0.022	SBHK03 CP @ 1mbGL	15000	0
PAH 16 Total	mg/kg	25	9	3.2	0.055	SBHK03 CP @ 1mbGL		15

Sample Reference		внк3	ВНК3	ВНК4	ВНК4	CH51	CH52A	CH53A	CH54A	DDDUMO	DDDU004	PPPUME	CDUVOS CD	SBHK02 CP	CTDV01	CTDV02	BH526	DUESE	BH527	BH527	BH530	TP510	TP510
Location Type		BH	BH	BH	BH BH	TP	TP	TP	TP	BH	BH	BH	BH	BH	TP	TP	BH	BH	BH	BH	BH	TP	TP
Specimen Depth (m)		0	1	1	2	0	0.3	0.4	0.4	0.5	0.5	0.5	1	1	0.34	0.3	0.0 - 0.2	0.4 - 0.5	0.2 - 0.3	0.5 - 1.0	0.2 - 0.5	0.0 - 0.3	1.0 - 1.2
OD Level (m)		6	5	4.5	3.5	5.73	5.19	5.13	5.95				4.83	4.53	5.24	5.74	5.95	5.55	5.75	5.25	6.05	5.9	4.9
Sample Type		В	В	D	D	D	D	D	D				ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Geology Code	Units	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Cluster Code		1997 GI	1997 GI	1997 GI	1997 GI	2000 GI	2000 GI	2000 GI	2000 GI	2002 GI	2002 GI	2002 GI	2007 GI	2007 GI	2007 GI	2007 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI
VOCs	-																						
1,1,1,2-Tetrachloroethane	ug/kg																				< 2.0		
1,1,1-Trichloroethane	ug/kg																				< 1.0		
1,1-Dichloropropene	ug/kg						-		-						-	-					< 1.0 < 50		⊢—
1,2,3-Trichloropropane 1,1,2-Trichloroethane	ug/kg ug/kg																				< 10		
1,2,3-Trichlorobenzene	ug/kg																				< 2.0		
1,1-Dichloroethane	ug/kg																				< 1.0		
1,1-Dichloroethene	ug/kg																				< 1.0		
1,2-Dichloroethane	ug/kg																				< 2.0		
1,2-Dichlorobenzene	ug/kg																				< 1.0		
cis-1,2-Dichloroethene	ug/kg														ļ						< 1.0		
1,2-Dichloropropane	ug/kg														-	1					< 1.0 < 50		+
1,2-Dibromo-3-Chloropropane cis-1,3-Dichloropropene	ug/kg ug/kg																				< 10		
1,3,5-Trimethylbenzene	ug/kg ug/kg						<u> </u>	-	<u> </u>						-	1		-	-		< 1.0		
1,2,4-Trichlorobenzene	ug/kg																				< 1.0		
1,2-Dibromoethane	ug/kg																				< 5.0		
1,2,4-Trimethylbenzene	ug/kg																				< 1.0		
1,3-Dichlorobenzene	ug/kg																				< 1.0		
1,4-Dichlorobenzene	ug/kg																				< 1.0		
1,3-Dichloropropane	ug/kg																				< 2.0		L
2-Chlorotoluene	ug/kg																				< 1.0		
4-Chlorotoluene 4-Isopropyltoluene	ug/kg ug/kg																				< 1.0 < 1.0		
Benzene	ug/kg																				< 1.0	<1.0	<1.0
Bromobenzene	ug/kg																				< 1.0	12.0	12.0
Bromodichloromethane	ug/kg																				< 5.0		
Bromochloromethane	ug/kg																				< 5.0		
Bromomethane	ug/kg																				< 20		
Tribromomethane	ug/kg																				< 1.0		
Chloroethane	ug/kg																				< 2.0		
Chloroform Chloroethene	ug/kg ug/kg																				< 1.0 < 1.0		
Chloromethane	ug/kg																				< 1.0		\vdash
Chlorobenzene	ug/kg																				< 1.0		
Tetrachloromethane (Carbon Tetra Chloride)	ug/kg																				< 1.0		
Dichlorodifluoromethane	ug/kg																				< 1.0		
Dibromomethane	ug/kg																				< 1.0		
Ethylbenzene	ug/kg																				< 1.0	<1.0	<1.0
Dibromochloromethane	ug/kg																				< 10		
Hexachlorobutadiene (HCBD)	ug/kg ug/kg																				< 1.0 < 1.0		
Isopropylbenzene n-Butylbenzene	ug/kg ug/kg																				< 1.0		$\vdash \vdash$
Methyl tert-butyl ether (MTBE)	ug/kg																				< 1.0		$\overline{}$
m,p xylenes	ug/kg																				< 1.0	<1.0	<1.0
O-Xylene	ug/kg																				< 1.0	<1.0	<1.0
n-propylbenzene	ug/kg																				< 1.0		
trans-1,2-Dichloroethene	ug/kg																				< 1.0		L
Styrene	ug/kg																				< 1.0		⊢—
Sec-Butylbenzene	ug/kg														-	1					< 1.0 < 1.0		+
Tert-Butylbenzene trans-1,3-Dichloropropene	ug/kg ug/kg		-		-	-					-	 			-	1		 			< 1.0		—
Tetrachloroethene	ug/kg ug/kg				<u> </u>	<u> </u>										1					< 1.0		
Toluene	ug/kg															1					< 1.0	<1.0	<1.0
Trichlorofluoromethane	ug/kg																				< 1.0		
Trichloroethene	ug/kg																				< 1.0		
Ethylbenzene	ug/kg																				< 1.0		
Benzene	ug/kg																				< 1.0		└
m,p xylenes	ug/kg																				< 1.0		
O-Xylene	ug/kg																				< 1.0		
Toluene	ug/kg												1		1	1	1				< 1.0		L

Sample Reference		CH52A	CH53A	SRHKU1 CD	SBHK02 CP	SBHKU3 CD	SBHKU3 CD	SBHKU3 CD	SBHKUV CD	SBHKUV CD	STDK01	STDK01	STDK01	STDKU3	STDKU3	STDKU3	BH526	BH528	BH529	BH530	TP510	TP512	TP513
Location Type		TP	TP	BH	BH	BH	BH	BH	BH	BH	TP	TP	TP	TP	TP	TP	BH	BH	BH	BH	TP	TP	TP
Specimen Depth (m)		1.2	1.1	3	3	4.5	2	7	0.3	1	1.2	1.27	3	1.24	2	3	1.5 - 1.7	0.25 - 0.4	0.0 - 0.4			0.0 - 0.1	1.0 - 1.1
OD Level (m)		4.29	4.43	2.26	2.53	1.03	3.83	-1.17	5.25	4.55	4.38	4.31	2.58	4.8	4.04	3.04	4.45	4.95	5.1	5.45	4.1	5.1	5.3
Sample Type		D	D	U	ES	U	ES	U	ES	ES	В	ES	В	ES	В	В	ES	ES	ES	ES	ES	ES	ES
Geology Code	Units	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD
Cluster Code		2000 GI	2000 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI
VOCs	,																						
1,1,1,2-Tetrachloroethane	ug/kg																			< 2.0			
1,1,1-Trichloroethane	ug/kg																			< 1.0			ı
1,1-Dichloropropene	ug/kg																			< 1.0			
1,2,3-Trichloropropane	ug/kg																			< 50			
1,1,2-Trichloroethane	ug/kg																			< 10			—
1,2,3-Trichlorobenzene	ug/kg																			< 2.0			—
1,1-Dichloroethane	ug/kg																			< 1.0			
1,1-Dichloroethene	ug/kg												-							< 1.0			
1,2-Dichloroethane 1,2-Dichlorobenzene	ug/kg ug/kg		1								 	-					-		-	< 2.0 < 1.0	-		\vdash
cis-1,2-Dichloroethene	ug/kg ug/kg		 									 							 	< 1.0			
1,2-Dichloropropane	ug/kg																			< 1.0			
1,2-Dibromo-3-Chloropropane	ug/kg		1																	< 50			
cis-1,3-Dichloropropene	ug/kg																			< 10			
1,3,5-Trimethylbenzene	ug/kg		1																	< 1.0			
1,2,4-Trichlorobenzene	ug/kg																			< 1.0			
1,2-Dibromoethane	ug/kg																			< 5.0			
1,2,4-Trimethylbenzene	ug/kg																			< 1.0			
1,3-Dichlorobenzene	ug/kg																			< 1.0			
1,4-Dichlorobenzene	ug/kg																			< 1.0			—
1,3-Dichloropropane	ug/kg																			< 2.0			—
2-Chlorotoluene	ug/kg																			< 1.0			
4-Chlorotoluene	ug/kg																			< 1.0 < 1.0			
4-Isopropyltoluene Benzene	ug/kg ug/kg																<1.0	<1.0		< 1.0			
Bromobenzene	ug/kg																V1.0	V1.0		< 1.0			
Bromodichloromethane	ug/kg																			< 5.0			
Bromochloromethane	ug/kg																			< 5.0			
Bromomethane	ug/kg																			< 20			
Tribromomethane	ug/kg																			< 1.0			
Chloroethane	ug/kg																			< 2.0			
Chloroform	ug/kg																			< 1.0			
Chloroethene	ug/kg																			< 1.0			
Chloromethane	ug/kg																			< 1.0			—
Chlorobenzene	ug/kg																			< 1.0			—
Tetrachloromethane (Carbon Tetra Chloride)	ug/kg																			< 1.0			l
Dichlorodifluoromethane Dibromomethane	ug/kg ug/kg																			< 1.0 < 1.0			
Ethylbenzene	ug/kg ug/kg																<1.0	<1.0		< 1.0			
Dibromochloromethane	ug/kg																11.0	11.0		< 10			
Hexachlorobutadiene (HCBD)	ug/kg		1																	< 1.0			
Isopropylbenzene	ug/kg																			< 1.0			
n-Butylbenzene	ug/kg																			< 1.0			
Methyl tert-butyl ether (MTBE)	ug/kg																			< 1.0			ı
m,p xylenes	ug/kg																<1.0	<1.0		< 1.0			
O-Xylene	ug/kg																<1.0	<1.0		< 1.0			
n-propylbenzene	ug/kg																			< 1.0			—
trans-1,2-Dichloroethene	ug/kg																			< 1.0			—
Styrene See Butulbensene	ug/kg	ļ	 									-							-	< 1.0			
Sec-Butylbenzene Tert-Butylbenzene	ug/kg	-	-												-					< 1.0 < 1.0			
trans-1,3-Dichloropropene	ug/kg ug/kg		 									 							 	< 1.0			
Tetrachloroethene	ug/kg		 																	< 1.0			
Toluene	ug/kg																<1.0	<1.0		< 1.0			
Trichlorofluoromethane	ug/kg		İ														.1.0	1.0		< 1.0			
Trichloroethene	ug/kg		1																	< 1.0			
Ethylbenzene	ug/kg																			< 1.0			
Benzene	ug/kg																			< 1.0			
m,p xylenes	ug/kg																			< 1.0			
O-Xylene	ug/kg																			< 1.0			
Toluene	ug/kg																			< 1.0			

Note

NFD = No Fibres Detected NAD = No Asbestos Detected Chromium VI criteria used Elemental Mercury criteria used

Screening criterion for lead is C4SL in the absence of a S4UL

None LOD None LOD None LOD None LOD None LOD None LOD None LOD None LOD None LOD None LOD None LOD None LOD None LOD None LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LOD LO	Sample Type		Screening crite	rion for lead is	C4SL in the ab:	sence of a S4L	IL		
No. Analyses Above Clo No. Analyses Above Clo No. Analyses Above Clo No. Analyses Above Clo No. Analyses Above Clo No. Analyses Above Clo No. Analyses Above Clo No. Analyses Above Clo No. Analyses Above Clo No. Analyses Above Clo No. Analyses Above Clo No. Analyses Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above Clo No. Above	Geology Code	Units							
1.1.1.2**Introduce thane	Cluster Code		No. Analyses		Maximum	Minimum			
1.1.1-Trichforocethane									
1.1.016/norpropense			_						
1,2,3 Trichioropropane									
1.1.2 First incombename UUPR 2 0 None > LOD 102 0 1.1.5 Cintroperhane UUPR 2 0 None > LOD 102 0 1.1.5 Cintroperhane UUPR 2 0 None > LOD 102 0 0 1.1.5 Cintroperhane UUPR 2 0 None > LOD 102 0 0 1.1.5 Cintroperhane UUPR 2 0 None > LOD 102 0 0 1.1.5 Cintroperhane UUPR 2 0 None > LOD 2 2 1.2.5 Cintroperhane UUPR 2 0 None > LOD 2 2 1.2.5 Cintroperhane UUPR 2 0 None > LOD 2 2 1.2.5 Cintroperhane UUPR 2 0 None > LOD 2 2 1.2.5 Cintroperhane UUPR 2 0 None > LOD 0 2 2 1.2.5 Cintroperhane UUPR 2 0 None > LOD 0 2 2 1.2.5 Cintroperhane UUPR 2 0 None > LOD 0 2 2 1.2.5 Cintroperhane UUPR 2 0 None > LOD None > LOD 2 2 1.2.5 Cintroperhane UUPR 2 0 None > LOD None > LOD 2 2 1.2.5 Cintroperhane UUPR 2 0 None > LOD None > LOD 2 2 1.2.5 Cintroperhane UUPR 2 0 None > LOD None > LOD 2 2 1.2.5 Cintroperhane UUPR 2 0 None > LOD None > LOD 2 2 1.2.5 Cintroperhane UUPR 2 0 None > LOD None > LOD 2 2 1.2.5 Cintroperhane UUPR 2 0 None > LOD None > LOD 2 2 1.2.5 Cintroperhane UUPR 2 0 None > LOD None > LOD 2 2 1.2.5 Cintroperhane UUPR 2 0 None > LOD None > LOD 2 2 1.2.5 Cintroperhane UUPR 2 0 None > LOD None > LOD 2 2 1.2.5 Cintroperhane UUPR 2 0 None > LOD None > LOD 2 2 1.2.5 Cintroperhane UUPR 2 0 None > LOD None > LOD 2 2 1.2.5 Cintroperhane UUPR 2 0 None > LOD None > LOD 2 2 1.2 Cintroperhane UUPR 2 0 None > LOD None > LOD 2 2 1.2 Cintroperhane UUPR 2 0 None > LOD None > LOD 2 2 1.2 Cintroperhane UUPR 2 0 None > LOD None > LOD 2 2 1.2 Cintroperhane UUPR 2 0 None > LOD None > LOD 2 2 1.2 Cintroperhane UUPR 2 0 None > LOD None > LOD 2 2 1.2 Cintroperhane UUPR 2 0 None >									
1,2,3-Trinchiorbenzene									
1,1-Dichlorosethane								103	
1.1.Dichlorosethane								102	
1.2.Dichloroschane									
1,2-Dictorobenzene									
cis.12.Dickhorderhene u.g/kg 2 0 None > LOD 2 2 1.2.Dichloropropane u.g/kg 2 0 None > LOD None > LOD 2 1.2.Dichropropane u.g/kg 2 0 None > LOD None > LOD 2 1.3.5-Trimetylbenzene u.g/kg 2 0 None > LOD None > LOD 2 1.2.Dibromorehane u.g/kg 2 0 None > LOD None > LOD 2 1.2.Dibromorehane u.g/kg 2 0 None > LOD None > LOD 2 1.2.Dibromorehane u.g/kg 2 0 None > LOD None > LOD 2 1.3.Dicklorobervene u.g/kg 2 0 None > LOD None > LOD 2 2.3.Dicklorobromene u.g/kg 2 0 None > LOD None > LOD 2 2.Cibirotobluene u.g/kg 2 0 None > LOD None > LOD 2 4.Chiorotobluene u.g/kg 2 0 None > LOD <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
1.2-Dirthorgorgoane									
18.13-Dichlorogropene 18.18 2 0 None > LOD None > LOD 2 2 2 12.47-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 2 12.47-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 2 12.47-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 2 12.47-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 2 12.47-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 12.47-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 12.47-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 12.47-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 12.48-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 12.48-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 12.48-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 12.48-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 12.48-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 12.48-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 12.48-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 12.48-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 12.48-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 12.48-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 12.48-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 12.48-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 2 12.48-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 2 12.48-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 2 12.48-frichlorobenzene 18.18 2 0 None > LOD None > LOD 2 2 2 12.48-frichlorobenzene 18.18 2 2 0 None > LOD None > LOD 2 2 2 12.48-frichlorobenzene 18.18 2 2 0 None > LOD None > LOD 2 2 2 2 2 2 2 2 2	1,2-Dichloropropane		2	0					2
1,3,5 Trimethybenzene	1,2-Dibromo-3-Chloropropane	ug/kg	2	0	None > LOD				2
1,1,4-Trichlorobenzene	cis-1,3-Dichloropropene	ug/kg	2	0	None > LOD	None > LOD			_
1.2-Dibromethane									
1,2,4-Trimethylbenzene		ug/kg						220	
1.3-Dichlorobenzene									
1.4-Dichloropenzene									
1.3-Dichloropropane	· ·								
2.Chlorotoluene									
4-Chilorotoluene yg/kg 2									
A-Lapropytoluene Ug/kg 2									
Benzene ug/kg 6 0 None > LOD None > LOD 27 0 Bromobenzene ug/kg 2 0 None > LOD None > LOD 2 Bromodenzene ug/kg 2 0 None > LOD None > LOD 2 Bromodenzene ug/kg 2 0 None > LOD None > LOD 2 Bromodenzene ug/kg 2 0 None > LOD None > LOD 2 Bromodenzene ug/kg 2 0 None > LOD None > LOD 2 Bromodenzene ug/kg 2 0 None > LOD None > LOD 2 Bromodenzene ug/kg 2 0 None > LOD None > LOD 2 Bromodenzene ug/kg 2 0 None > LOD None > LOD 2 Bromodenzene ug/kg 2 0 None > LOD None > LOD 2 Bromodenzene ug/kg 2 0 None > LOD None > LOD 2 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 None > LOD None > LOD 0 Bromodenzene ug/kg 2 0 N									
Bromobersene								27	
Bromodichloromethane ug/kg 2 0 None > LOD None > LOD Bromochloromethane ug/kg 2 0 None > LOD None > LOD Bromomethane ug/kg 2 0 None > LOD None > LOD Chioromethane ug/kg 2 0 None > LOD None > LOD Chiorofform ug/kg 2 0 None > LOD None > LOD Chiorofform ug/kg 2 0 None > LOD None > LOD Chioromethane ug/kg 2 0 None > LOD None > LOD Chioromethane ug/kg 2 0 None > LOD None > LOD Chioromethane ug/kg 2 0 None > LOD None > LOD Chioromethane ug/kg 2 0 None > LOD None > LOD Chioromethane ug/kg 2 0 None > LOD None > LOD Dichlorodifluoromethane ug/kg 2 0 None > LOD None > LOD D									
Bromomethane Ug/kg 2 0 None > LOD None > LOD 2									2
Brommethane ug/kg 2 0 None > LOD None > LOD 2 2 Tribromomethane ug/kg 2 0 None > LOD None > LOD 2 Chloroethane ug/kg 2 0 None > LOD None > LOD 99 0 Chloroform ug/kg 2 0 None > LOD None > LOD 0.059 0 Chloromethane ug/kg 2 0 None > LOD None > LOD 0.059 0 Chloroberene ug/kg 2 0 None > LOD None > LOD 56 0 Chloromethane ug/kg 2 0 None > LOD None > LOD 2.9 0 Dichlorodifluoromethane ug/kg 2 0 None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD									
Chloroethane	Bromomethane		2	0	None > LOD	None > LOD			2
Chloroform	Tribromomethane	ug/kg	2	0	None > LOD	None > LOD			2
Chloroethene		ug/kg							
Chloromethane									-
Chlorobenzene								0.059	
Tetrachloromethane Ug/kg 2									
Dichlorodifluoromethane ug/kg 2 0 None > LOD None > LOD Dibromomethane ug/kg 2 0 None > LOD None > LOD Ethylbenzene ug/kg 6 0 None > LOD None > LOD Dibromochloromethane ug/kg 2 0 None > LOD None > LOD Hexachlorobutadiene (HCBD) ug/kg 2 0 None > LOD None > LOD Isopropylbenzene ug/kg 2 0 None > LOD None > LOD Isopropylbenzene ug/kg 2 0 None > LOD None > LOD Wethyl tert-butyl ether (MTBE) ug/kg 2 0 None > LOD None > LOD mp. pylenes ug/kg 6 0 None > LOD None > LOD O-Xylene ug/kg 6 0 None > LOD Soon 2 mp. pylenesene ug/kg 2 0 None > LOD None > LOD Soon 0 Tars-1,2-Dickhoroethene ug/kg 2 0			_	-					
Dibromomethane ug/kg 2 0 None > LOD None > LOD 2 Ethylbenzene ug/kg 6 0 None > LOD None > LOD 5700 0 Dibromochloromethane ug/kg 2 0 None > LOD None > LOD 2 Hexachlorobutadiene (HCBD) ug/kg 2 0 None > LOD None > LOD 31 0 Isopropylbenzene ug/kg 2 0 None > LOD None > LOD 2 PaButylbenzene ug/kg 2 0 None > LOD None > LOD 2 Methyl tert-butyl ether (MTBE) ug/kg 2 0 None > LOD None > LOD 2 Methyl tert-butyl ether (MTBE) ug/kg 6 0 None > LOD None > LOD 2 Methyl tert-butyl ether (MTBE) ug/kg 6 0 None > LOD None > LOD 2 Methyl tert-butyl ether (MTBE) ug/kg 6 0 None > LOD None > LOD 0 2 Tertachyl								2.9	
Ethylbenzene									
Dibromochloromethane ug/kg 2 0 None > LOD None > LOD Hexachlorobutadiene (HCBD) ug/kg 2 0 None > LOD None > LOD Sopropylbenzene ug/kg 2 0 None > LOD None > LOD n-Butylbenzene ug/kg 2 0 None > LOD None > LOD m-Butylbenzene ug/kg 2 0 None > LOD None > LOD Methyl tert-butyl ether (MTBE) ug/kg 2 0 None > LOD None > LOD Methyl tert-butyl ether (MTBE) ug/kg 6 0 None > LOD None > LOD mp. yylenes ug/kg 6 0 None > LOD 5900 0 O-Xylene ug/kg 6 0 None > LOD 5900 0 O-Xylene ug/kg 2 0 None > LOD 0 2 trans-1,3-Dichlorotethene ug/kg 2 0 None > LOD 0 2 Styrene ug/kg 2 0								5700	
Hexachlorobutadiene (HCBD)								3700	
Isopropylbenzene								31	
n-Butylbenzene									
mp sylenes ug/kg 6 0 None > LOD None > LOD 5900 0 O-Xylene ug/kg 6 0 None > LOD None > LOD 6600 0 n-prophylenzene ug/kg 2 0 None > LOD None > LOD 2 trans-1,2-Dickhoroethene ug/kg 2 0 None > LOD None > LOD 2 Syrene ug/kg 2 0 None > LOD None > LOD 2 Sec-Butylbenzene ug/kg 2 0 None > LOD None > LOD 2 Tert-Butylbenzene ug/kg 2 0 None > LOD None > LOD 2 Tert-Butylbenzene ug/kg 2 0 None > LOD None > LOD 2 Tert-Butylbenzene ug/kg 2 0 None > LOD None > LOD 2 Tert-Butylbenzene ug/kg 2 0 None > LOD None > LOD 2 Tetrachloroethene ug/kg 2 0 None >			2	0					2
O-Xylene ug/kg 6 0 None > LOD None > LOD 6600 0 n-propylbenzene ug/kg 2 0 None > LOD None > LOD 2 trans-1,2-Dichloroethene ug/kg 2 0 None > LOD None > LOD 2 Styrene ug/kg 2 0 None > LOD None > LOD 2 Sec-Butylbenzene ug/kg 2 0 None > LOD None > LOD 2 Tert-Butylbenzene ug/kg 2 0 None > LOD None > LOD 2 Terta-Butylbenzene ug/kg 2 0 None > LOD None > LOD 2 Terta-Butylbenzene ug/kg 2 0 None > LOD None > LOD 2 Terta-Butylbenzene ug/kg 2 0 None > LOD None > LOD 2 Terta-Butylbenzene ug/kg 2 0 None > LOD None > LOD 19 0 Tollore Green ug/kg 2 0	Methyl tert-butyl ether (MTBE)	ug/kg	2	0	None > LOD	None > LOD			2
Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description									
trans-1,2-Dichloroethene ug/kg 2 0 None > LOD None > LOD 2 Styrene ug/kg 2 0 None > LOD None > LOD 2 See-Butylbenzene ug/kg 2 0 None > LOD None > LOD 2 Tert-Butylbenzene ug/kg 2 0 None > LOD None > LOD 2 Terta-Bitylbenzene ug/kg 2 0 None > LOD None > LOD 2 Terta-Bitylbenzene ug/kg 2 0 None > LOD None > LOD 2 Terta-Bitylbenzene ug/kg 2 0 None > LOD None > LOD 19 0 Tolluene ug/kg 2 0 None > LOD None > LOD 56000 0 Trichlorofuoromethane ug/kg 2 0 None > LOD None > LOD 2 2 Trichloroethene ug/kg 2 0 None > LOD None > LOD 2 2 2 Tollone > LOD None > LOD	,							6600	
Styrene				-					_
Sec-Butylbenzene			_						
Tert-Butylbenzene									
trans-1,3-Dichloropropene ug/kg 2 0 None > LOD None > LOD 2 Tetrachloroethene ug/kg 2 0 None > LOD None > LOD 19 0 Tolluene ug/kg 6 0 None > LOD None > LOD 56000 0 Trichlorofluoromethane ug/kg 2 0 None > LOD None > LOD 2 Trichloroethene ug/kg 2 0 None > LOD None > LOD 1.2 0 Ethylbenzene ug/kg 2 0 None > LOD 5700 0 Benzene ug/kg 2 0 None > LOD None > LOD 27 0 O-Xylenes ug/kg 2 0 None > LOD None > LOD 5900 0 O-Xylene ug/kg 2 0 None > LOD None > LOD 6600 0									
Tetrachloroethene								1	
Toluene								19	
Trichlorofluoromethane									
Trichloroethene ug/kg 2 0 None > LOD None > LOD 1.2 0 Ethylbenzene ug/kg 2 0 None > LOD 5700 0 Benzene ug/kg 2 0 None > LOD 27 0 mp xylenes ug/kg 2 0 None > LOD 5900 0 O-Xylene ug/kg 2 0 None > LOD 6600 0								33000	
Ethylbenzene ug/kg 2 0 None > LOD None > LOD 5700 0 Benzene ug/kg 2 0 None > LOD None > LOD 27 0 mp, svylenes ug/kg 2 0 None > LOD None > LOD 5900 0 O-Xylene ug/kg 2 0 None > LOD 6600 0								1.2	
Benzene ug/kg 2 0 None > LOD None > LOD 27 0 m,p xylenes ug/kg 2 0 None > LOD None > LOD 5900 0 O-Xylene ug/kg 2 0 None > LOD None > LOD 6600 0									
m,p xylenes ug/kg 2 0 None > LOD None > LOD 5900 0 O-Xylene ug/kg 2 0 None > LOD None > LOD 6600 0	Benzene		2	0				27	0
	m,p xylenes		2	0				5900	0
Toluene ug/kg 2 0 None > LOD None > LOD 56000 0									
	Toluene	ug/kg	2	0	None > LOD	None > LOD		56000	0

Sample Reference		внк3	ВНК3	ВНК4	ВНК4	CH51	CH52A	CH53A	CH54A	RBBH003	RBBH004	RBBH005	CDUIVOS CD	SBHK02 CP	STPK01	STPK02	BH526	BH526	BH527	BH527	BH530	TP510	TP510
		BH		BH BH	BH BH	TP	TP	TP	TP	BH	BH	BH	BH BH		TP	TP	BH	BH	BH	BH	BH	TP	TP
Location Type			BH											BH									
Specimen Depth (m)		0	1	1	2	0	0.3	0.4	0.4	0.5	0.5	0.5	1	1	0.34	0.3	0.0 - 0.2	0.4 - 0.5	0.2 - 0.3	0.5 - 1.0	0.2 - 0.5	0.0 - 0.3	1.0 - 1.2
OD Level (m)		6	5	4.5	3.5	5.73	5.19	5.13	5.95				4.83	4.53	5.24	5.74	5.95	5.55	5.75	5.25	6.05	5.9	4.9
Sample Type	Units	В	В	D	D	D	D	D	D				ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Geology Code	Oilles	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Cluster Code		1997 GI	1997 GI	1997 GI	1997 GI	2000 GI	2000 GI	2000 GI	2000 GI	2002 GI	2002 GI	2002 GI	2007 GI	2007 GI	2007 GI	2007 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI
SVOCs																							
2,4,5-Trichlorophenol	mg/kg																				< 0.50		
2,4-Dichlorophenol	mg/kg																				< 0.50		
2,4,6-Trichlorophenol	mg/kg																				< 0.50		
2,4-Dimethylphenol	mg/kg																				< 0.50		
2,6-Dinitrotoluene	mg/kg																				< 0.50		
2-Methylnaphthalene	mg/kg																				< 0.50		
2,4-Dinitrotoluene	mg/kg																				< 0.50		\vdash
2-Methylphenol	mg/kg																				< 0.50		
2-Chlorophenol	mg/kg																				< 0.50		
2-Chloronaphthalene	mg/kg																				< 0.50		
2-Methyl-4,6-Dinitrophenol	mg/kg																				< 0.50		
4-Chloro-3-Methylphenol	mg/kg																				< 0.50		
3-Nitroaniline	mg/kg																				< 0.50		
4-Chloroaniline	mg/kg																				< 0.50		
2-Nitrophenol	mg/kg																				< 0.50		
4-Chlorophenyl Phenyl Ether	mg/kg																				< 0.50		
4-Bromophenyl Phenyl Ether	mg/kg																				< 0.50		
2-Nitroaniline																					< 0.50		
4-Methylphenol	mg/kg mg/kg																				< 0.50		
4-Nitrophenol	mg/kg																				< 0.50		
n-nitrophenoi n-nitrosodimethylamine																					< 0.50		
4-Nitroaniline	mg/kg																				< 0.50	-	
	mg/kg																				< 0.50	-	
Azobenzene	mg/kg																					-	
Bis(2-chloroethyl)ether	mg/kg																				< 0.50		
Butylbenzylphthalate	mg/kg																						
Bis(2-chloroisopropyl)ether	mg/kg																				< 0.50		
Bis(2-ethylhexyl)phthalate	mg/kg																				< 0.50		
Bis(2-chloroethoxy)methane	mg/kg																				< 0.50	<u> </u>	
Carbazole	mg/kg																				< 0.50		
Diethylphthalate	mg/kg																				< 0.50		
Dibenzofuran	mg/kg																				< 0.50		
Di-N-Octyl Phthalate	mg/kg																				< 0.50		
Di-N-Butyl Phthalate	mg/kg																				< 0.50		
Dimethylphthalate	mg/kg		ļ	ļ			ļ		ļ			ļ							ļ		< 0.50	<u> </u>	
Hexachlorobenzene (HCB)	mg/kg		ļ	ļ			ļ		ļ			ļ							ļ		< 0.50	<u> </u>	
Hexachloroethane	mg/kg																				< 0.50		
Hexachlorocyclopentadiene	mg/kg																				< 0.50		
Isophorone	mg/kg																				< 0.50		
N-Nitroso-Di-N-Propylamine	mg/kg																				< 0.50		
Nitrobenzene	mg/kg																				< 0.50		
Phenol	mg/kg																				< 0.50		
Pentachlorophenol (PCP)	mg/kg																				< 0.50		

Sample Reference		CH52A	CH53A	SBHK01 CP	SBHK02 CP	SBHK02 CP	SBHKU3 CB	SBHKU3 CD	SBHKUV CD	SBHK04 CP	STDK01	STDK01	STPK01	STDKO	STPK02	STDKUS	BH526	BH528	BH529	BH530	TP510	TP512	TP513
Location Type	-	TP	TP	BH	BH BH	BH BH	BH	BH BH	BH	BH BH	TP	TP	TP	TP	TP	TP	BH	BH	BH	BH	TP	TP	TP
								7											1				
Specimen Depth (m)		1.2 4.29	1.1 4.43	3 2.26	3	4.5	3.83	-1.17	0.3	1	1.2	1.27	3	1.24	2	3	1.5 - 1.7	0.25 - 0.4	0.0 - 0.4		1.8 - 2.0	0.0 - 0.1	1.0 - 1.1
OD Level (m)	_	4.29 D	4.43 D	2.26 U	2.53	1.03 U			5.25	4.55	4.38 B	4.31	2.58 B	4.8	4.04 B	3.04 B	4.45	4.95	5.1 ES	5.45	4.1 ES	5.1	5.3
Sample Type	Units				ES		ES	U	ES	ES		ES		ES			ES	ES		ES		ES	ES
Geology Code		TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD
Cluster Code		2000 GI	2000 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2007 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI
SVOCs																							
2,4,5-Trichlorophenol	mg/kg																			< 0.50			
2,4-Dichlorophenol	mg/kg																			< 0.50		i	
2,4,6-Trichlorophenol	mg/kg																			< 0.50		i	
2,4-Dimethylphenol	mg/kg																			< 0.50			
2,6-Dinitrotoluene	mg/kg																			< 0.50		i	
2-Methylnaphthalene	mg/kg																			< 0.50			
2,4-Dinitrotoluene	mg/kg																			< 0.50			
2-Methylphenol	mg/kg																			< 0.50			
2-Chlorophenol	mg/kg																			< 0.50			
2-Chloronaphthalene	mg/kg																			< 0.50			
2-Methyl-4,6-Dinitrophenol	mg/kg																			< 0.50			
4-Chloro-3-Methylphenol	mg/kg																			< 0.50			
3-Nitroaniline	mg/kg																			< 0.50			
4-Chloroaniline	mg/kg																			< 0.50			
2-Nitrophenol	mg/kg																			< 0.50			
4-Chlorophenyl Phenyl Ether	mg/kg																			< 0.50			
4-Bromophenyl Phenyl Ether	mg/kg																			< 0.50			
2-Nitroaniline	mg/kg																			< 0.50			
4-Methylphenol	mg/kg																			< 0.50			
4-Nitrophenol	mg/kg																			< 0.50			
n-nitrosodimethylamine	mg/kg																			< 0.50			
4-Nitroaniline	mg/kg																			< 0.50			
Azobenzene	mg/kg																			< 0.50			
Bis(2-chloroethyl)ether	mg/kg																			< 0.50			
Butylbenzylphthalate	mg/kg																			< 0.50			_
Bis(2-chloroisopropyl)ether	mg/kg																			< 0.50			_
Bis(2-ethylhexyl)phthalate	mg/kg																			< 0.50		i	
Bis(2-chloroethoxy)methane	mg/kg	†									1	1	1	†	1		l		1	< 0.50		i	†
Carbazole	mg/kg											 	 		 		-			< 0.50			
Diethylphthalate	mg/kg																			< 0.50		i	
Dibenzofuran	mg/kg	†									1	1	1	†	1		l		1	< 0.50		i	†
Di-N-Octyl Phthalate	mg/kg											 	 		 		-			< 0.50			-
Di-N-Butyl Phthalate	mg/kg											 	 		 		-			< 0.50			-
Dimethylphthalate	mg/kg											 	 		 		-			< 0.50			
Hexachlorobenzene (HCB)	mg/kg				-	-														< 0.50			
Hexachloroethane	mg/kg	1	-								 	1	1	l	1	-			 	< 0.50			
		1	-								 	1	1	l	1	-			 	< 0.50			
Hexachlorocyclopentadiene Isophorone	mg/kg			1	 	 				 	1	1		1	1		-		1	< 0.50			
	mg/kg																			< 0.50			
N-Nitroso-Di-N-Propylamine	mg/kg		-		-	-			-		-	-	-	-	-	-	-	-	-				
Nitrobenzene	mg/kg		-		-	-			-		-	-	-	-	-	-	-	-	-	< 0.50			
Phenol	mg/kg														1					< 0.50			
Pentachlorophenol (PCP)	mg/kg																			< 0.50			

Sample Reference Location Type Specimen Depth (m)
OD Level (m) Sample Type Geology Code

NFD = No Fibres Detected NAD = No Asbestos Detected Chromium VI criteria used

Elemental Mercury criteria used
Screening criterion for lead is C4SL in the absence of a S4UL

Geology Code	Units		1	1				
Cluster Code		No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	Selected S4ULs Criteria	No. Data Exceeding S4ULs Criteria
SVOCs						•		<u>'</u>
2,4,5-Trichlorophenol	mg/kg	2	0	None > LOD	None > LOD			2
2,4-Dichlorophenol	mg/kg	2	0	None > LOD	None > LOD			2
2,4,6-Trichlorophenol	mg/kg	2	0	None > LOD	None > LOD			2
2,4-Dimethylphenol	mg/kg	2	0	None > LOD	None > LOD			2
2,6-Dinitrotoluene	mg/kg	2	0	None > LOD	None > LOD			2
2-Methylnaphthalene	mg/kg	2	0	None > LOD	None > LOD			2
2,4-Dinitrotoluene	mg/kg	2	0	None > LOD	None > LOD			2
2-Methylphenol	mg/kg	2	0	None > LOD	None > LOD			2
2-Chlorophenol	mg/kg	2	0	None > LOD	None > LOD			2
2-Chloronaphthalene	mg/kg	2	0	None > LOD	None > LOD			2
2-Methyl-4,6-Dinitrophenol	mg/kg	2	0	None > LOD	None > LOD			2
4-Chloro-3-Methylphenol	mg/kg	2	0	None > LOD	None > LOD			2
3-Nitroaniline	mg/kg	2	0	None > LOD	None > LOD			2
4-Chloroaniline	mg/kg	2	0	None > LOD	None > LOD			2
2-Nitrophenol	mg/kg	2	0	None > LOD	None > LOD			2
4-Chlorophenyl Phenyl Ether	mg/kg	2	0	None > LOD	None > LOD			2
4-Bromophenyl Phenyl Ether	mg/kg	2	0	None > LOD	None > LOD			2
2-Nitroaniline	mg/kg	2	0	None > LOD	None > LOD			2
4-Methylphenol	mg/kg	2	0	None > LOD	None > LOD			2
4-Nitrophenol	mg/kg	2	0	None > LOD	None > LOD			2
n-nitrosodimethylamine	mg/kg	2	0	None > LOD	None > LOD			2
4-Nitroaniline	mg/kg	2	0	None > LOD	None > LOD			2
Azobenzene	mg/kg	2	0	None > LOD	None > LOD			2
Bis(2-chloroethyl)ether	mg/kg	2	0	None > LOD	None > LOD			2
Butylbenzylphthalate	mg/kg	2	0	None > LOD	None > LOD			2
Bis(2-chloroisopropyl)ether	mg/kg	2	0	None > LOD	None > LOD			2
Bis(2-ethylhexyl)phthalate	mg/kg	2	0	None > LOD	None > LOD			2
Bis(2-chloroethoxy)methane	mg/kg	2	0	None > LOD	None > LOD			2
Carbazole	mg/kg	2	0	None > LOD	None > LOD			2
Diethylphthalate	mg/kg	2	0	None > LOD	None > LOD			2
Dibenzofuran	mg/kg	2	0	None > LOD	None > LOD			2
Di-N-Octyl Phthalate	mg/kg	2	0	None > LOD	None > LOD			2
Di-N-Butyl Phthalate	mg/kg	2	0	None > LOD	None > LOD			2
Dimethylphthalate	mg/kg	2	0	None > LOD	None > LOD			2
Hexachlorobenzene (HCB)	mg/kg	2	0	None > LOD	None > LOD		30	0
Hexachloroethane	mg/kg	2	0	None > LOD	None > LOD			2
Hexachlorocyclopentadiene	mg/kg	2	0	None > LOD	None > LOD			2
Isophorone	mg/kg	2	0	None > LOD	None > LOD			2
N-Nitroso-Di-N-Propylamine	mg/kg	2	0	None > LOD	None > LOD			2
Nitrobenzene	mg/kg	2	0	None > LOD	None > LOD			2
Phenol	mg/kg	2	0	None > LOD	None > LOD		440	0
Pentachlorophenol (PCP)	mg/kg	2	0	None > LOD	None > LOD		110	0

A4 Appendix 4

Groundwater Laboratory Data

Location		Screenin	g Criteria	CH 51	CH52	CH52 A	RBBH003	RBBH003	RBBH003	RBBH004	RBBH004	RBBH004	RBBH005	RBBH005	RBBH005	SBHK01	SBHK01	SBHK02	SBHK02
Monitoring Round	1						1	2	3	1	2	3	1	2	3	1	2	1	2
Location Type	1			TP	TP	TP	BH	BH	BH	BH	ВН	BH	BH	BH	BH	ВН	BH	BH	BH
Response Zone (RZ) Details	1			MG	MG	MG		TFD / PEAT			TFD / PEAT			MG / TFD			/ PEAT	TFD /	
Depth	Units										1			1		1	6.8	1.33	11.2
Installation Details	-	EQS	DWS													_			
Strata Water Level Encountered on Sampling	=			MG	MG	MG										Т	FD	M	IG
									1						1				
Date Sampled				2000	2000	2000		05/03/2002			01/03/2002			01/03/2002		26/02/2008	20/03/2008	26/02/2008	20/03/2008
Metals																			
Arsenic Dissolved	ug/l	50	10	6	<1	<1	3	3	3	10	8	10	2	2	2	19	14	15	17
Boron Dissolved	ug/l	2000	1000																
Calcium Dissolved	ug/l							157000	143000				339000			130000	110000	220000	240000
Chromium Dissolved	ug/l		50	5	<1	<1	22	<1	2	6	<1	5	<1	<1	<1	7	14	5	10
Copper Dissolved	ug/l	10	2000	9	3	2	2	4	3	7	2	7	4	3	4	8	5.7	8.1	9
Iron Dissolved	ug/l	1000	200				<10	10	<10	640	320	400	<10	20	<10	3000	890	260	<50
Lead Dissolved	ug/l	1.2	10	<1	<1	<1	<1	<1	<1	3	1	3	<1	1	2	1.6	0.5	2.7	0.4
Magnesium Dissolved	ug/l							78300	70300				<30			170000	150000	140000	190000
Manganese Dissolved	ug/l	30	50					0.00137	0.0015							1100	940	720	640
Nickel Dissolved	ug/l	4	20	4	5	2	4	3	6	9	5	10	4	4	7	6.4	8.6	8.4	14
Selenium Dissolved	ug/l		10	<1	<1	3	2	3	2	7	6	4	8	10	9	20	9	23	25
Cadmium Dissolved	ug/l	0.15	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				
Zinc Dissolved	ug/l	75		26	50	1													
Mercury Dissolved	ug/l	0.07	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Cadmium Total	ug/l	0.15	5													8.8	12	0.5	0.8
Zinc Total	ug/l	75					7	26	17	17	8	14	4	6	12	3000	4800	170	370
Mercury Total	ug/l	0.07	1													0.02	0.05	0.01	<0.01
Non-Metal Inorganics																			
Hardness Total	mg/l															990	870	1100	1200
Total Alkalinity as CaCO3	mg/l							650	1140							1600	3300	590	880
BOD	mg/l	5										_				8	12	<1	<1
COD	mg/l							23	<5		52	49	_			6200	4900	270	550
Potassium Dissolved	mg/l							23	21.5				11.8			53	51	38	48
Sodium Dissolved	mg/l		200					264	268				112			1500	1200	1900	2500
Nitrate as NO3	mg/l		50					1.1	<0.5				<0.5			<0.3	<0.3	<0.3	<0.3
Total Diss Sulphur	mg/l			62	38.5	26.4													
Sulphate (soluble)	mg/l	400 250	250				276	347 243	295	144	174	126	106 97	120	160	110	71	330	160
Chloride	mg/l	250	250					<0.2	122 <0.2			.0.2	97	<0.2		<0.5	1400	2900	3300
Sulphide	mg/l	0.5					1.9	0.2	1.6	3.7	4.4	<0.2 4.2	2.6		7.2		<0.5	<0.5	<0.5
Ammoniacal Nitrogen as N Unionised ammonia	mg/l	0.6					0.008825344	0.000928984	0.007431869	1.369275706	0.100556975	0.289241744	3.6 3.595139111	4.3 4.2953868	7.2 7.190278222	14 0.374416609	0.943671965	15 0.327716059	18 0.64337657
Total Ammonium as NH4	mg/l		0.5				0.008825344	0.000928984	0.007431809	1.3092/3/00	0.100556975	0.289241744	3.595139111	4.2953808	7.190278222	18	0.9430/1905	19	0.04337037
	mg/l		0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01
Phenols Monohydric Thiocyanate	mg/l mg/l			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 2.3	<0.05 1.1	<0.05 0.7	<0.05 0.2	<0.05 0.2	<0.05 0.2	<0.01	<0.01	<0.01	<0.01
Total Cyanide		0.001	0.05	0.00	<0.025	<0.2	<0.05	<0.1	<0.05	0.32	0.4	0.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Free Cyanide	mg/l mg/l	0.001	0.05	0.09	<0.025	<0.025	<0.05	<0.05	<0.05	0.32	0.4	0.09	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Complex Cyanide				1	<0.025	<0.025													-
Carbon Dioxide Dissolved	mg/l			-	<0.025	<0.025	 	-		 						86	 	51	+
pH Value	ug/l pH units	6-9	6.5-10	10.1	7.5	11 9	7.4	7.4	7.4	9.5	8.1	8.6	12.6	12.7	12.6	8.17	8.59	8.08	8.3
pri value	pri units	0-9	0.5-10	10.1	7.5	11.9	7.4	7.4	7.4	9.5	6.1	8.6	12.6	12.7	12.6	6.17	8.59	80.6	6.3

M4CAN

Groundwater Sample Analysis & Screening Assessment CL-27

01/07/2015

Geological Formation legend

MG Made Ground TFD Tidal Flat Deposits

PEAT Peat

MMG Mercia Mudstone Group

Location		SBHK03	SBHK03	SBHK04	SBHK04	BH527	BH527	BH527	BH527	BH527	BH527	BH528	BH528	BH528	BH528	BH528	BH528	BH530	BH530	BH530	BH530	BH530	BH530
Monitoring Round		1	2	1	2	DIIJZ7	1	DIIJZ/	2		3	111320	DIIJZO		2	D11320		D11330	1	D11330		D11330	2
Location Type		BH	BH	BH	BH		•		BH .		,		•		a BH		,		<u>. </u>	В			
Response Zone (RZ) Details			PEAT		FD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD
Depth	Units	0.89	5.9	8.87	12.2	2.92	7.66	1.93	7.29	1.99	4.71	1.76	6.44	1.53	6.8	1.64	6.29	2.53	5.45	2.47	4.57	2.97	5.07
Installation Details	Units	0.05	3.5	0.07	12.2	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow
Strata Water Level Encountered on Sampling		Α.	1G	т	FD	ьеер	Stratiow	реер	Stialiow	реер	Silaliow	Deep	Sitatiow	реер	Sitaliow	ьеер	Stiallow	реер	Silallow	реер	Sitaliow	Deeb	Stiallow
Strata water Lever Encountered on Sampling			10		I														1			-	
Date Sampled		26/02/2008	20/03/2008	26/02/2008	20/03/2008	20/03	/2015	27/03	3/2015	13/04	1/2015	20/03	/2015	27/03	3/2015	13/04	1/2015	30/03	3/2015	14/04	/2015	21/04	4/2015
Metals																							_
Arsenic Dissolved	ug/l	4	23	16	2.1	15	5	23	40	15	15	38	29	58	1/5	24	17	110	18	120	18	21	22
Boron Dissolved	ug/l			- 10		600	780	1100	1500	1500	1400	970	1300	1500	1/5	1300	1800	860	1900	460	700	390	860
Calcium Dissolved	ug/l	120000	360000	420000	120000	000	700	1100	1500	1300	1100	370	1500	1500	1/3	1300	1000	000	1500	400	700	330	
Chromium Dissolved	ug/l	4	15	9	9	41	12	130	77	35	18	120	110	240	1/5	83	63	110	84	27	18	22	15
Copper Dissolved	ug/l	7.8	5.7	12	2.8	81	2	40	13	9.9	2.2	110	41	56	1/5	53	32	39	29	13	4.7	56	12
Iron Dissolved	ug/l	250	75	<50	94		-			3.3				- 50	1,0							- 50	
Lead Dissolved	ug/l	0.8	0.9	4.8	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	I/S	<1	<1	<1	<1	1.1	<1	<1	<1
Magnesium Dissolved	ug/l	120000	340000	320000	120000																		
Manganese Dissolved	ug/l	740	860	1800	560																		
Nickel Dissolved	ug/l	3	17	20	3.9	2.8	2.8	4	5.6	3.5	3.9	5.3	5.9	5.9	I/S	5.1	8	4.6	5.8	1.8	3.2	<1	1.6
Selenium Dissolved	ug/l	6	39	46	2	47	11	76	38	9	4.8	61	60	180	I/S	29	23	68	34	11	6.3	7.8	6.5
Cadmium Dissolved	ug/l					<0.08	0.78	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	0.13	I/S	<0.08	<0.08	<0.08	0.23	0.12	<0.08	<0.08	0.092
Zinc Dissolved	ug/l					6.9	4.8	6.1	3.8	16	18	10	5.3	12	I/S	22	29	4.7	8.5	24	50	4.1	5.6
Mercury Dissolved	ug/l					<0.5	1.2	1.1	0.94	<0.5	0.62	<0.5	<0.5	1.3	I/S	0.63	0.6	0.74	0.9	<0.5	<0.5	<0.5	<0.5
Cadmium Total	ug/l	<0.4	3.4	0.8	<0.4																		i ,
Zinc Total	ug/l	89	540	230	89																		
Mercury Total	ug/l	< 0.01	0.04	0.04	< 0.01																		
Non-Metal Inorganics	•																						
Hardness Total	mg/l	760	2100	2300	690																		
Total Alkalinity as CaCO3	mg/l	1000	1100	990	1000	940	380	1200	1200	1500	1500	680	1100	1000	I/S	1200	2000	1800	1300	2200	1900	2300	1900
BOD	mg/l	7	<1	<1	3																		
COD	mg/l	160	1300	620	78																		
Potassium Dissolved	mg/l	41	75	66	42																		
Sodium Dissolved	mg/l	650	3500	3300	590																		
Nitrate as NO3	mg/l	<0.3	<0.3	<0.3	<0.3																		
Total Diss Sulphur	mg/l																						
Sulphate (soluble)	mg/l	440	280	550	500																		
Chloride	mg/l	380	5200	5300	350	1900	330	1900	790	1500	810	2700	2300	4300	I/S	4800	3500	1500	630	1700	850	2000	800
Sulphide	mg/l	<0.5	<0.5	<0.5	<0.5																		
Ammoniacal Nitrogen as N	mg/l	5.3	35	27	5.6	2.6	2.3	3.4	6.6	3.6	7.5	7.6	16	11	I/S	12	31	6.3	3.6	6.9	7.6	4	4.7
Unionised ammonia	mg/l	0.442032876	1.144534248	0.327390078	0.795512594																		<u> </u>
Total Ammonium as NH4	mg/l	6.8		35															 				
Phenols Monohydric	mg/l	<0.01	<0.01	<0.01	<0.01														 				
Thiocyanate	mg/l																		I				
Total Cyanide	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Free Cyanide	mg/l					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Complex Cyanide	mg/l																		 				
Carbon Dioxide Dissolved	ug/l	26		92																			
pH Value	pH units	8.69	8.26	7.82	8.95	8.1	7.9	7.5	7.6	9.1	9	8.1	7.9	7.3	1/5	8.2	7.8	7.4	7.3	8.2	7.7	8.3	7.9

M4CAN
Groundwater Sample Analysis & Screening Assessment

CL-27
01/07/2015

Location
Monitoring Round
Location Type
Response Zone (RZ) Details
Depth
Installation Details
Strata Water Level Encountered on Sampling

Screening Values & Assessment

EQS Environmental Quality Standards

DWS Drinking Water Standard

Exceeds EQS

X Exceeds EQS

X Exceeds DWS

X Laboratory detection level higher than screening criterion

Notes

EQS calcium carbonate 100-150mg/l for heavy metals: chromium, copper, lead, nickel and zinc

N/A = Not Available

		No.	No. Analyses			Location & Installation Details	No. Data	No. Data
Date Sampled		Analyses	Above LOD	Maximum	Minimum	of Maximum Concentration	Exceeding EQS	Exceeding DWS
Metals								
Arsenic Dissolved	ug/l	38	35	120	2	2 @ Deep	3	22
Boron Dissolved	ug/l	18	17	1900	390	@ Shallow	0	9
Calcium Dissolved	ug/l	11	11	420000	110000	1@		
Chromium Dissolved	ug/l	38	30	240	2	2 @ Deep		9
Copper Dissolved	ug/l	38	37	110	2	1 @ Deep	14	0
Iron Dissolved	ug/l	17	11	3000	10	1@	1	7
Lead Dissolved	ug/l	38	13	4.8	0.4	1@	6	0
Magnesium Dissolved	ug/l	11	10	340000	70300	2 @		
Manganese Dissolved	ug/l	10	10	1800	0.00137	1@	8	8
Nickel Dissolved	ug/l	38	36	20	1.6	1@	20	0
Selenium Dissolved	ug/l	38	35	180	2	2 @ Deep		17
Cadmium Dissolved	ug/l	30	5	0.78	0.092	@ Shallow	2	0
Zinc Dissolved	ug/l	21	20	50	1	@	0	
Mercury Dissolved	ug/l	30	9	1.3	0.6	2 @ Deep	9	3
Cadmium Total	ug/l	8	6	12	0.5	2 @	6	2
Zinc Total	ug/l	17	17	4800	4	2 @	8	0
Mercury Total	ug/l	8	5	0.05	0.01	2 @	0	0
Non-Metal Inorganics						-		
Hardness Total	mg/l	8	8	2300	690	1@		
Total Alkalinity as CaCO3	mg/l	28	27	3300	380	2 @		
BOD	mg/l	8	4	12	3	2 @	3	
COD	mg/l	12	11	6200	23	1@		
Potassium Dissolved	mg/l	11	11	75	11.8	2 @		
Sodium Dissolved	mg/l	11	11	3500	112	2 @		10
Nitrate as NO3	mg/l	11	1	1.1	1.1	2 @		0
Total Diss Sulphur	mg/l	3	3	62	26.4	@		
Sulphate (soluble)	mg/l	17	17	550	71	1@	3	8
Chloride	mg/l	29	28	5300	97	1@	25	25
Sulphide	mg/l	12	0	None > LOD	None > LOD			
Ammoniacal Nitrogen as N	mg/l	35	34	35	0.2	2 @	33	
Unionised ammonia	mg/l	17	17	7.190278222	0.000928984	3 @		
Total Ammonium as NH4	mg/l	4	4	35	6.8	1 @		4
Phenols Monohydric	mg/l	20	0	None > LOD	None > LOD			
Thiocyanate	mg/l	10	6	2.3	0.2	1 @		
Total Cyanide	mg/l	38	4	0.4	0.09	2 @	4	4
Free Cyanide	mg/l	19	0	None > LOD	None > LOD			
Complex Cyanide	mg/l	2	0	None > LOD	None > LOD			
Carbon Dioxide Dissolved	ug/l	4	4	92	26	1 @		
pH Value	pH units	38	37	12.7	7.3	2 @	8	6

Location		Screenin	a Critoria	CH 51	CH52	CH52 A	RBBH003	RBBH003	RBBH003	RBBH004	RBBH004	RBBH004	RBBH005	RBBH005	RBBH005	SBHK01	SBHK01	SBHK02	SBHK02
Monitoring Round	4	Screening	g Criteria	CH 21	CH5Z	CH52 A	1	2	3	1	2	3	1	2	3	3BHKU1 1	2 2	3BHKU2 1	2
Location Type	4			TP	TP	TP	BH	BH	BH	BH	BH	BH	BH	BH	BH	BH	BH	BH	BH
Response Zone (RZ) Details	-			MG	MG	MG	ВП	TFD / PEAT	ВП	ВП	TFD / PEAT	ВП	ВП	MG / TFD	ВП		/ PEAT	TFD /	
Depth	Units			IVIG	IVIG	IVIG		IFD/ PEAT			IFD / PEAT			IVIG / TFD	I	1	6.8	1.33	11.2
Installation Details	Ullits	EQS	DWS													1	0.8	1.33	11.2
Strata Water Level Encountered on Sampling	-			MG	MG	MG										-	FD	М	16
								/ /			/ /			/ /					
Date Sampled				2000	2000	2000		05/03/2002			01/03/2002			01/03/2002		26/02/2008	20/03/2008	26/02/2008	20/03/2008
Organics					1	1													
GRO (C4-C12)	ug/l															<10	<10	<10	<10
MTBE	ug/l															<10	<10	<10	<10
Benzene	ug/l	10	1													<10	<10	<10	<10
Toluene	ug/l	50														<10 <10	<10	<10	<10
Ethyl benzene	ug/l	20															<10	<10	<10
m & p Xylene	ug/l	30 30														<10 <10	<10 <10	<10 <10	<10 <10
o Xylene TPH	ug/l	30														<10	<10	<10	<10
Aliphatics C5-C6	ug/l															<10	<10	<10	<10
Aliphatics >C6-C8	ug/l															<10	<10	<10	<10
Aliphatics >C8-C10	ug/l															<10	<10	<10	<10
Aliphatics >C10-C12	ug/l															<10	<10	<10	<10
Aliphatics >C12-C16 Aqueous	ug/l															<10	<10	<10	<10
Aliphatics >C16-C21 Aqueous	ug/l															<10	<10	<10	<10
Aliphatics >C21-C35 Aqueous	ug/l															270	<10	<10	<10
Total Aliphatics C5-C35 Aqueous	ug/l															270	<10	<10	<10
Aliphatics >C35-44	ug/l																		
Aromatics >C5-C7	ug/l																		
Aromatics C6-C7	ug/l															<10	<10	<10	<10
Aromatics >C7-C8	ug/l															<10	<10	<10	<10
Aromatics >EC8-EC10	ug/l															<10	<10	<10	<10
Aromatics >EC10-EC12	ug/l															<10	<10	<10	<10
Aromatics >EC12-EC16 Aqueous	ug/l															<10	<10	<10	<10
Aromatics >EC16-EC21 Aqueous	ug/l															<10	<10	<10	<10
Aromatics >EC21-EC35 Aqueous	ug/l															<10	<10	<10	<10
Total Aromatics C6-C35 Aqueous	ug/l															<10	<10	<10	<10
Aromatics >C35-44	ug/l																		
Total Aliphatic TPH	ug/l																		
Total Aromatic TPH	ug/l																		
TPH (Aliphatics and Aromatics C5-C35)	ug/l								<10			10			10	270	<10	<10	<10
Total petroleum hydrocarbons	ug/l																	 	
TPH FTIR	ug/l			90	80	80												 	
TPH GC	ug/l			5700	380	270													$oldsymbol{oldsymbol{\sqcup}}$
PCBs		1				1		1		l			l	T	l				
PCB- ARO	ug/l					1												+	
Cresols	ug/l	-		<0.5	-	 		+			-	-		 		-			+
Pcb-101 2,2',4,5,5' - Pentachlorobiphenyl	ug/l	-		-	-	 		+			-	-		 		-			+
Pcb-118 2,3',4,4',5 - Pentachlorobiphenyl	ug/l	-		-	-	 		+			-	-		 		-			+
Pcb-138 2,2',3,4,4',5' - Hexachlorobiphenyl	ug/l	ļ		-				-									\vdash		
Pcb-153 2,2',4,4',5,5' - Hexachlorobiphenyl	ug/l	-		-	-	 		+			-	-		 		-			+
Pcb-180 2,2',3,4,4',5,5' - Heptachlorobiphenyl Pcb-28 2,4,4' - Trichlororbiphenyl	ug/l			-				+			 	 		-		 	\vdash		+
Pcb-28 2,4,4 - Trichlororbiphenyl Pcb-52 2,2',5,5' - Tetrachlorobiphenyl	ug/l	 	1	-	-			+						-			-		+
rcu-52 2,2 ,5,5 - Letrachioropiphenyi	ug/l	1	1	1	l	l		1		l	1	1		1		1		1	1

M4CAN

Groundwater Sample Analysis & Screening Assessment CL-27

01/07/2015

Geological Formation legend

MG Made Ground TFD Tidal FI PEAT Peat Tidal Flat Deposits MMG Mercia Mudstone Group

Location		SBHK03	SBHK03	SBHK04	SBHK04	BH527	BH527	BH527	BH527	BH527	BH527	BH528	BH528	BH528	BH528	BH528	BH528	BH530	BH530	BH530	BH530	BH530	BH530
Monitoring Round		1	2	1	2		1		2		3	1	Ĺ		2	3	3		1		2		3
Location Type		BH	BH	BH	BH			E	3H					E	3H					В	Н		
Response Zone (RZ) Details		TFD /	/ PEAT	Т	FD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD
Depth	Units	0.89	5.9	8.87	12.2	2.92	7.66	1.93	7.29	1.99	4.71	1.76	6.44	1.53	6.8	1.64	6.29	2.53	5.45	2.47	4.57	2.97	5.07
Installation Details						Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow
Strata Water Level Encountered on Sampling		N	/IG	т	FD																		
· •		//		//		/				/-		/	/								/		
Date Sampled		26/02/2008	20/03/2008	26/02/2008	20/03/2008	20/03	3/2015	27/0:	3/2015	13/04	1/2015	20/03	/2015	27/0:	3/2015	13/04	/2015	30/03	3/2015	14/04	/2015	21/04	4/2015
Organics																							
GRO (C4-C12)	ug/l	<10	<10	<10	<10																		
MTBE	ug/l	<10	<10	<10	<10							<1	<1			<1	<1					<1	<1
Benzene	ug/l	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	I/S	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/l	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	I/S	<1	<1	<1	<1	<1	<1	<1	<1
Ethyl benzene	ug/l	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	I/S	<1	<1	<1	<1	<1	<1	<1	<1
m & p Xylene	ug/l	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	1.3	<1	<1	I/S	<1	<1	<1	<1	<1	<1	<1	<1
o Xylene	ug/l	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	I/S	<1	<1	<1	<1	<1	<1	<1	<1
TPH																							
Aliphatics C5-C6	ug/l	<10	<10	<10	<10	<0.1	< 0.1	<0.1	< 0.1	<0.1	< 0.1	< 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 >C6-C8	ug/l	<10	<10	<10	<10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<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	ug/l	<10	<10	<10	<10	<0.1	< 0.1	<0.1	<0.1	<0.1	< 0.1	<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	ug/l	<10	<10	<10	<10	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<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 >C12-C16 Aqueous	ug/l	<10	<10	<10	<10	<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	<0.1	<0.1	<0.1	<0.1	<0.1
Aliphatics >C16-C21 Aqueous	ug/l	<10	<10	<10	<10	< 0.1	110	< 0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	<0.1	<0.1	< 0.1	53	18	<0.1	<0.1	<0.1	< 0.1
Aliphatics >C21-C35 Aqueous	ug/l	<10	<10	<10	<10	<0.1	1600	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.75	<0.1	<0.1	<0.1	<0.1	<0.1
Total Aliphatics C5-C35 Aqueous	ug/l	<10	<10	<10	<10																		
Aliphatics >C35-44	ug/l					< 0.1	46	< 0.1	< 0.1	< 0.1	< 0.1	<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-C7	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
Aromatics C6-C7	ug/l	<10	<10	<10	<10																		
Aromatics >C7-C8	ug/l	<10	<10	<10	<10	< 0.1	< 0.1	< 0.1	<0.1	< 0.1	< 0.1	<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 >EC8-EC10	ug/l	<10	<10	<10	<10	< 0.1	< 0.1	<0.1	< 0.1	< 0.1	< 0.1	< 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 >EC10-EC12	ug/l	<10	<10	<10	<10	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<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 >EC12-EC16 Aqueous	ug/l	<10	<10	<10	<10	< 0.1	< 0.1	< 0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	<0.1	<0.1	<0.1	3.8	<0.1	<0.1	<0.1	<0.1	< 0.1
Aromatics >EC16-EC21 Aqueous	ug/l	<10	<10	<10	<10	<0.1	16	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	<0.1	<0.1	< 0.1	14	5.6	<0.1	<0.1	< 0.1	<0.1
Aromatics >EC21-EC35 Aqueous	ug/l	<10	<10	<10	<10	< 0.1	170	< 0.1	<0.1	< 0.1	< 0.1	<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 Aromatics C6-C35 Aqueous	ug/l	<10	<10	<10	<10																	T .	
Aromatics >C35-44	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
Total Aliphatic TPH	ug/l					<5	1700	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	83	18	<5	<5	<5	<5
Total Aromatic TPH	ug/l					<5	190	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	18	5.6	<5	<5	<5	<5
TPH (Aliphatics and Aromatics C5-C35)	ug/l	<10	<10	<10	<10																		
Total petroleum hydrocarbons	ug/l					<10	1900	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	100	23	<10	<10	<10	<10
TPH FTIR	ug/l																					T .	
TPH GC	ug/l																						
PCBs	-6/-																						
PCB- ARO	ug/l																						
Cresols	ug/l																						
Pcb-101 2,2',4,5,5' - Pentachlorobiphenyl	ug/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						
Pcb-118 2,3',4,4',5 - Pentachlorobiphenyl	ug/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						
Pcb-138 2,2',3,4,4',5' - Hexachlorobiphenyl	ug/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						
Pcb-153 2,2',4,4',5,5' - Hexachlorobiphenyl	ug/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						
Pcb-180 2,2',3,4,4',5,5' - Heptachlorobiphenyl	ug/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						
Pcb-28 2,4,4' - Trichlororbiphenyl	ug/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						
Pcb-52 2,2',5,5' - Tetrachlorobiphenyl	ug/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						
. 12 12 2/2/3/3 Tetracinorosiphenyi	оы.		1	+	1	-0.01	-0.01	-0.01	-0.01	-0.01	10.01	-0.01	10.01	10.01	10.01	10.01	10.01						

M4CAN		Screening	Values & Asses	cmont				
Groundwater Sample Analysis & Screening Assessn	ont	EQS		Quality Standard	c		1	
CL-27	ient	DWS	Drinking Water		3			
01/07/2015		DWS	Exceeds EQS	Standard				
01/07/2013		Х	Exceeds DWS					
Location		×			er than screening			
		_ ^	Laboratory det	ection lever night	er triair screening	Citterion	J	
Monitoring Round	ł							
Location Type		Notes						Ī
Response Zone (RZ) Details				0-150mg/l for he	avy metals: chro	mium, copper, lead, nickel and zind		
Depth	Units	N/A = Not	Available					
Installation Details								
Strata Water Level Encountered on Sampling								
Date Sampled		No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Installation Details of Maximum Concentration	No. Data Exceeding EQS	No. Data Exceeding DWS
Organics								
GRO (C4-C12)	ug/l	8	0	None > LOD	None > LOD			
MTBE	ug/l	14	0	None > LOD	None > LOD		ļ	
Benzene	ug/l	26	0	None > LOD	None > LOD		0	0
Toluene	ug/l	26	0	None > LOD	None > LOD		0	
Ethyl benzene	ug/l	26	0	None > LOD	None > LOD		0	
m & p Xylene	ug/l	26	1	1.3	1.3	1 @ Deep	0	
o Xylene	ug/l	26	0	None > LOD	None > LOD		0	
ТРН								
Aliphatics C5-C6	ug/l	26	0	None > LOD	None > LOD			
Aliphatics >C6-C8	ug/l	26	0	None > LOD	None > LOD			
Aliphatics >C8-C10	ug/l	26	0	None > LOD	None > LOD			
Aliphatics >C10-C12	ug/l	26	0	None > LOD	None > LOD			
Aliphatics >C12-C16 Aqueous	ug/l	26	1	29	29	1 @ Deep		
Aliphatics >C16-C21 Aqueous	ug/l	26	3	110	18	@ Shallow		
Aliphatics >C21-C35 Aqueous	ug/l	26	3	1600	0.75	@ Shallow		
Total Aliphatics C5-C35 Aqueous	ug/l	8	1	270	270	1@		
Aliphatics >C35-44	ug/l	18	1	46	46	@ Shallow		
Aromatics >C5-C7	ug/l	18	0	None > LOD	None > LOD			
Aromatics C6-C7	ug/l	8	0	None > LOD	None > LOD			
Aromatics >C7-C8	ug/l	26	0	None > LOD	None > LOD			
Aromatics >EC8-EC10	ug/l	26	0	None > LOD	None > LOD			
Aromatics >EC10-EC12	ug/l	26	0	None > LOD	None > LOD			
Aromatics >EC12-EC16 Aqueous	ug/l	26	1	3.8	3.8	1 @ Deep		
Aromatics >EC16-EC21 Aqueous	ug/l	26	3	16	5.6	@ Shallow		
Aromatics >EC21-EC35 Aqueous	ug/l	26	1	170	170	@ Shallow		
Total Aromatics C6-C35 Aqueous	ug/l	8	0	None > LOD	None > LOD			
Aromatics >C35-44	ug/l	18	0	None > LOD	None > LOD			
Total Aliphatic TPH	ug/l	18	3	1700	18	@ Shallow		
Total Aromatic TPH	ug/l	18	3	190	5.6	@ Shallow		
TPH (Aliphatics and Aromatics C5-C35)	ug/l	11	3	270	10	1@		
Total petroleum hydrocarbons	ug/l	18	3	1900	23	@ Shallow		
TPH FTIR	ug/l	3	3	90	80	@		
TPH GC	ug/l	3	3	5700	270	@	L	
PCBs								
PCB- ARO	ug/l	1	1	1	1	@		
Cresols	ug/l	1	0	None > LOD	None > LOD			
Pcb-101 2,2',4,5,5' - Pentachlorobiphenyl	ug/l	12	0	None > LOD	None > LOD			
Pcb-118 2,3',4,4',5 - Pentachlorobiphenyl	ug/l	12	0	None > LOD	None > LOD			
Pcb-138 2,2',3,4,4',5' - Hexachlorobiphenyl	ug/l	12	0	None > LOD	None > LOD			
Pcb-153 2,2',4,4',5,5' - Hexachlorobiphenyl	ug/l	12	0	None > LOD	None > LOD			
Pcb-180 2,2',3,4,4',5,5' - Heptachlorobiphenyl	ug/l	12	0	None > LOD	None > LOD			
Pcb-28 2,4,4' - Trichlororbiphenyl	ug/l	12	0	None > LOD	None > LOD			
Pcb-52 2,2',5,5' - Tetrachlorobiphenyl	ug/l	12	0	None > LOD	None > LOD			

Location		Screenin	g Criteria	CH 51	CH52	CH52 A	RBBH003	RBBH003	RBBH003	RBBH004	RBBH004	RBBH004	RBBH005	RBBH005	RBBH005	SBHK01	SBHK01	SBHK02	SBHK02
Monitoring Round				0.132	CHISE	CHISEA	1	2	3	1	2	3	1	2	3	1	2	1	2
Location Type	1			TP	TP	TP	BH	BH	BH	BH	ВН	BH	ВН	ВН	ВН	ВН	BH	BH	ВН
Response Zone (RZ) Details				MG	MG	MG	511	TFD / PEAT	511	511	TFD / PEAT	511	511	MG / TFD	511		/ PEAT		PEAT
Depth Depth	Units			1110		11.0		11071211			11071211			1		1	6.8	1.33	11.2
Installation Details	- 0	EQS	DWS													-	0.0	1.55	
Strata Water Level Encountered on Sampling	-			MG	MG	MG										т	FD	N/	1G
Date Sampled				2000	2000	2000		05/03/2002			01/03/2002			01/03/2002		26/02/2008	20/03/2008	26/02/2008	20/03/2008
Phenols																			
Dimethylphenols	ug/l			< 0.5															
Trimethylphenols	ug/l			< 0.5															
2-Chlorophenol	ug/l	50														<1	<1	<1	<1
2 - Methyl-4,6-Dinitrophenol	ug/l																		
2-Methylphenol	ug/l	100														<1	<1	<1	<1
2-Nitrophenol	ug/l															<1	<1	<1	<1
2,4-Dichlorophenol	ug/l	20														<1	<1	<1	<1
2,4-Dimethylphenol	ug/l															<1	<1	<1	<1
2,4,5-Trichlorophenol	ug/l															<1	<1	<1	<1
2,4,6-Trichlorophenol	ug/l															<1	<1	<1	<1
4-Chloro-3-methylphenol	ug/l	40														<1	<1	<1	<1
4-Methylphenol	ug/l	100														<1	<1	<1	<1
4-Nitrophenol	ug/l															<1	<1	<1	<1
Pentachlorophenol	ug/l	0.4														<1	<1	<1	<1
Phenol	ug/l	7.7		< 0.0005												<1	<1	<1	<1
Phenols	mg/l	0.0077														<0.01	<0.01	<0.01	<0.01
PAHs										•				•					
2-Chloronaphthalene	ug/l															<1	<1	<1	<1
2-Methylnaphthalene	ug/l															<1	<1	<1	<1
Acenaphthene	ug/l			< 0.05	< 0.05	< 0.05			<2			<2			<2	<1	<1	<1	<1
Acenaphthylene	ug/l			<1.00	<1.00	<1.00			<2			<2			<2	<1	<1	<1	<1
Anthracene	ug/l	0.1		< 0.05	< 0.05	0.07			<2			<2			<2	<1	<1	<1	<1
Benzo(a)anthracene	ug/l			< 0.05	< 0.05	0.1			<2			<2			<2	<1	<1	<1	<1
Benzo(a)pyrene	ug/l	0.00017	0.01	<0.05	< 0.05	0.06			<2			<2			<2	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/l	0.017	0.1	<0.05	< 0.05	0.07			<2			<2			<2	<1	<1	<1	<1
Benzo(ghi)perylene	ug/l	0.0082	0.1	< 0.05	< 0.05	< 0.05			<2			<2			<2	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/l	0.017	0.1	<0.05	< 0.05	< 0.05			<2			<2			<2	<1	<1	<1	<1
Chrysene	ug/l			< 0.05	< 0.05	0.06			<2			<2			<2	<1	<1	<1	<1
Dibenzo(a,h)anthracene	ug/l			< 0.05	< 0.05	<0.05			<2			<2			<2	<1	<1	<1	<1
Fluoranthene	ug/l	0.0063		<0.05	<0.05	0.16			<2			<2			<2	<1	<1	<1	<1
Fluorene	ug/l			< 0.05	< 0.05	0.47			<2			<2			<2	<1	<1	<1	<1
Indeno(1,2,3-cd)pyrene	ug/l		0.1	< 0.05	< 0.05	<0.05			<2			<2			<2	<1	<1	<1	<1
Naphthalene	ug/l	2		< 0.50	< 0.50	0.74			<2			<2			<2	<1	<1	<1	<1
Phenanthrene	ug/l			<0.05	< 0.05	0.69			<2			<2			<2	<1	<1	<1	<1
Pyrene	ug/l			< 0.05	< 0.05	0.13			<2			<2			<2	<1	<1	<1	<1
Total PAHs (USEPA 16)	ug/l			<2.20	<2.20	<3.80													
Phthalates																			
Bis(2-ethylhexyl) phthalate	ug/l	1.3														<2	<2	<2	<2
Butylbenzyl phthalate	ug/l	20														<1	<1	<1	<1
Di-n-butyl phthalate	ug/l	8														<1	<1	<1	<1
Di-n-Octyl phthalate	ug/l	20														<5	<5	<5	<5
Diethyl phthalate	ug/l	200														<1	<1	<1	<1
Dimethyl phthalate	ug/l	800														<1	<1	<1	<1
L · ·						+		+		+			+	+			+		+

M4CAN

Groundwater Sample Analysis & Screening Assessment CL-27

01/07/2015

Geological Formation legend

MG Made Ground TFD Tidal FI PEAT Peat Tidal Flat Deposits MMG Mercia Mudstone Group

Monitoring Round					SBHK04	BH527	BH527	BH527	BH527	BH527	BH527	BH528	BH528	BH528	BH528	BH528	BH528	BH530	BH530	BH530	BH530	BH530	BH530
		1	2	1	2	1			2		3	1		- :	2		3		1		2		3
Location Type		BH	BH	BH	BH			E	ВН					В	SH .					В	Н		
Response Zone (RZ) Details	Ī	TFD /	PEAT	TI	FD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD
Depth	Jnits	0.89	5.9	8.87	12.2	2.92	7.66	1.93	7.29	1.99	4.71	1.76	6.44	1.53	6.8	1.64	6.29	2.53	5.45	2.47	4.57	2.97	5.07
Installation Details	Ī					Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow
Strata Water Level Encountered on Sampling		M	IG	TI	FD	,																	
Date Sampled		26/02/2008	20/03/2008	26/02/2008	20/03/2008	20/03	/2015	27/03	3/2015	13/04	/2015	20/03,	/2015	27/03	/2015	13/04	1/2015	30/0	3/2015	14/04	1/2015	21/0	04/2015
Phenols													,										
Dimethylphenols	ug/l																						
Trimethylphenols	ug/l																						
2-Chlorophenol	ug/l	<1	<1	<1	<1							<0.5	<0.5			<0.5	< 0.5					<0.5	<0.5
	ug/l											<0.5	<0.5			<0.5	<0.5					<0.5	<0.5
	ug/l	<1	<1	<1	<1							<0.5	<0.5			<0.5	< 0.5					<0.5	<0.5
	ug/l	<1	<1	<1	<1							<0.5	<0.5			<0.5	< 0.5					<0.5	<0.5
	ug/l	<1	<1	<1	<1							<0.5	<0.5			<0.5	<0.5					<0.5	<0.5
	ug/l	<1	<1	<1	<1							<0.5	<0.5			<0.5	<0.5					<0.5	<0.5
	ug/l	<1	<1	<1	<1							<0.5	<0.5			<0.5	<0.5					<0.5	<0.5
	ug/l	<1	<1	<1	<1							<0.5	<0.5			<0.5	<0.5					<0.5	<0.5
	ug/l	<1	<1	<1	<1							<0.5	<0.5			<0.5	<0.5					<0.5	<0.5
· · · · · · · · · · · · · · · · · · ·	ug/l	<1	<1	<1	<1							<0.5	<0.5			<0.5	<0.5					<0.5	<0.5
	ug/l	<1	<1	<1	<1																		
	ug/l	<1	<1	<1	<1							<0.5	<0.5			<0.5	<0.5					<0.5	<0.5
	ug/l	<1	<1	<1	<1							<0.5	<0.5			<0.5	<0.5					<0.5	<0.5
	mg/l	<0.01	<0.01	<0.01	<0.01	<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	<0.03
PAHs																							
	ug/l	<1	<1	<1	<1																		
	ug/l	<1	<1	<1	<1																		
	ug/l	<1	<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	<0.1	<0.1	<0.1	<0.1	<0.1
	ug/l	<1	<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	<0.1	<0.1	<0.1	<0.1	<0.1
	ug/l	<1	<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	<0.1	<0.1	<0.1	<0.1	<0.1
	ug/l	<1	<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	<0.1	<0.1	<0.1	<0.1	<0.1
	ug/l	<1	<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	<0.1	<0.1	<0.1	<0.1	<0.1
1 1	ug/l	<1	<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	<0.1	<0.1	<0.1	<0.1	<0.1
	ug/l	<1	<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	<0.1	<0.1	<0.1	<0.1	<0.1
· · · ·	ug/l	<1	<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	<0.1	<0.1	<0.1	<0.1	<0.1
	ug/l	<1	<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	<0.1	<0.1	<0.1	<0.1	<0.1
	ug/l	<1	<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	<0.1	<0.1	<0.1	<0.1	<0.1
	ug/l	<1	<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	<0.1	<0.1	<0.1	<0.1	<0.1
	ug/l	<1	<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	<0.1	<0.1	<0.1	<0.1	<0.1
	ug/l	<1	<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	<0.1	<0.1	<0.1	<0.1	<0.1
	ug/l	<1	<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	<0.1	<0.1	<0.1	<0.1	<0.1
	ug/l	<1	<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	<0.1	<0.1	<0.1	<0.1	<0.1
	ug/l	<1	<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	<0.1	<0.1	<0.1	<0.1	<0.1
	ug/l					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Phthalates	. 1				_						,												
	ug/l	<2	<2	<2	<2							<0.5	<0.5			<0.5	<0.5				1	<0.5	<0.5
	ug/l	<1	<1	<1	<1							<0.5	<0.5			<0.5	<0.5				1	<0.5	<0.5
	ug/l	<1	<1	<1	<1							<0.5	<0.5			<0.5	<0.5					<0.5	<0.5
	ug/l	<5	<5	<5	<5							<0.5	<0.5			<0.5	<0.5				1	<0.5	<0.5
	ug/l	<1	<1	<1	<1							<0.5	<0.5			<0.5	<0.5				 	<0.5	<0.5
Dimethyl phthalate	ug/l	<1	<1	<1	<1							<0.5	<0.5			<0.5	<0.5					<0.5	<0.5

Groundwater Sample Analysis & Screening Assessment CL-27 M4CAN Screening Values & Assessment

EQS Environmental Quality Standards DWS Drinking Water Standard 01/07/2015 Exceeds EQS Exceeds DWS Location
Monitoring Round
Location Type
Response Zone (RZ) Details
Depth
Installation Details
Strata Water Level Encountered on Sampling Laboratory detection level higher than screening criterion EQS calcium carbonate 100-150mg/l for heavy metals: chromium, copper, lead, nickel and zinc Units N/A = Not Available No. No. Analyses
Analyses Above LOD Location & Installation Details No. Data No. Data of Maximum Concentration Exceeding EQS Exceeding DWS Minimum Date Sampled Maximum Phenols Dimethylphenols ug/l 1 0 None > LOD None > LOD

Trimethylphenols	ug/l	1	0	None > LOD	None > LOD			
2-Chlorophenol	ug/l	14	0	None > LOD	None > LOD		0	
2 - Methyl-4,6-Dinitrophenol	ug/l	6	0	None > LOD	None > LOD			
2-Methylphenol	ug/l	14	0	None > LOD	None > LOD		0	
2-Nitrophenol	ug/l	14	0	None > LOD	None > LOD			
2,4-Dichlorophenol	ug/l	14	0	None > LOD	None > LOD		0	
2,4-Dimethylphenol	ug/l	14	0	None > LOD	None > LOD			
2,4,5-Trichlorophenol	ug/l	14	0	None > LOD	None > LOD			
2,4,6-Trichlorophenol	ug/l	14	0	None > LOD	None > LOD			
4-Chloro-3-methylphenol	ug/l	14	0	None > LOD	None > LOD		0	
4-Methylphenol	ug/l	14	0	None > LOD	None > LOD		0	
4-Nitrophenol	ug/l	8	0	None > LOD	None > LOD			
Pentachlorophenol	ug/l	14	0	None > LOD	None > LOD		0	
Phenol	ug/l	15	0	None > LOD	None > LOD		0	
Phenols	mg/l	26	0	None > LOD	None > LOD		0	
PAHs	•					-		
2-Chloronaphthalene	ug/l	8	0	None > LOD	None > LOD			
2-Methylnaphthalene	ug/l	8	0	None > LOD	None > LOD			
Acenaphthene	ug/l	32	0	None > LOD	None > LOD			
Acenaphthylene	ug/l	32	0	None > LOD	None > LOD			
Anthracene	ug/l	32	1	0.07	0.07	@	0	
Benzo(a)anthracene	ug/l	32	1	0.1	0.1	@		
Benzo(a)pyrene	ug/l	32	1	0.06	0.06	@	1	1
Benzo(b)fluoranthene	ug/l	32	1	0.07	0.07	@	1	0
Benzo(ghi)perylene	ug/l	32	0	None > LOD	None > LOD		0	0
Benzo(k)fluoranthene	ug/l	32	0	None > LOD	None > LOD		0	0
Chrysene	ug/l	32	1	0.06	0.06	@		
Dibenzo(a,h)anthracene	ug/l	32	0	None > LOD	None > LOD			
Fluoranthene	ug/l	32	1	0.16	0.16	@	1	
Fluorene	ug/l	32	1	0.47	0.47	@		
Indeno(1,2,3-cd)pyrene	ug/l	32	0	None > LOD	None > LOD			0
Naphthalene	ug/l	32	1	0.74	0.74	@	0	
Phenanthrene	ug/l	32	1	0.69	0.69	@		
Pyrene	ug/l	32	1	0.13	0.13	@		
Total PAHs (USEPA 16)	ug/l	21	0	None > LOD	None > LOD			
Phthalates								
Bis(2-ethylhexyl) phthalate	ug/l	14	0	None > LOD	None > LOD	·	0	
Butylbenzyl phthalate	ug/l	14	0	None > LOD	None > LOD		0	
Di-n-butyl phthalate	ug/l	14	0	None > LOD	None > LOD		0	
Di-n-Octyl phthalate	ug/l	14	0	None > LOD	None > LOD		0	
Diethyl phthalate	ug/l	14	0	None > LOD	None > LOD		0	
Dimethyl phthalate	ug/l	14	0	None > LOD	None > LOD		0	

Location		Screenin	g Criteria	CH 51	CH52	CH52 A	RBBH003	RBBH003	RBBH003	RBBH004	RBBH004	RBBH004	RBBH005	RBBH005	RBBH005	SBHK01	SBHK01	SBHK02	SBHK02
Monitoring Round							1	2	3	1	2	3	1	2	3	1	2	1	2
Location Type				TP	TP	TP	BH	BH	BH	BH	BH	BH	BH	BH	BH	BH	BH	BH	BH
Response Zone (RZ) Details				MG	MG	MG		TFD / PEAT			TFD / PEAT			MG / TFD		TFD /	PEAT	TFD /	PEAT
Depth	Units	EQS	DWS													1	6.8	1.33	11.2
Installation Details		EQS	DWS																
Strata Water Level Encountered on Sampling				MG	MG	MG										TI	FD	M	iG .
Date Sampled				2000	2000	2000		05/03/2002			01/03/2002			01/03/2002		26/02/2008	20/03/2008	26/02/2008	20/03/2008
				2000	2000	2000		03/03/2002			01/03/2002			01/03/2002		20/02/2008	20/03/2008	20/02/2000	20/03/2008
VOCs																			
Full suite	ug/l								<lod< td=""><td></td><td></td><td></td><td></td><td></td><td><lod< td=""><td></td><td></td><td></td><td></td></lod<></td></lod<>						<lod< td=""><td></td><td></td><td></td><td></td></lod<>				
1,1,1,2-Tetrachloroethane	ug/l																		
1,1,1-Trichloroethane	ug/l	100																	
1,1,2-Trichloroethane	ug/l	400																	
1,1-Dichloroethane	ug/l																		
1,1-Dichloroethene	ug/l																		
1,1-Dichloropropene	ug/l																		
1,2,3-Trichlorobenzene	ug/l	0.4																	-
1,2,3-Trichloropropane	ug/l	0.4	-		—			-				-	1						
1,2,4-Trichlorobenzene	ug/l	0.4	-		—			-				-	1						
1,2,4-Trimethylbenzene 1,2-Dibromo-3-Chloropropane	ug/l ug/l											1	1						1
1,2-Dibromoethane	ug/I											1	1	1					1
1,2-Dichlorobenzene	ug/I	20										1	1	1					1
1,2-Dichloroethane	ug/I ug/I	10	3									-							
1,2-Dichloropropane	ug/l	10																	
1,3,5-Trimethylbenzene	ug/l																		
1,3-Dichloropropane	ug/l																		
1,4-Dichlorobenzene	ug/l	20																	
2-Chlorotoluene	ug/l																		
4-Chlorotoluene	ug/l																		
4-Isopropyltoluene	ug/l																		
Benzene	ug/l	10	1																
Bromobenzene	ug/l																		
Bromochloromethane	ug/l		100																
Bromodichloromethane	ug/l																		
Bromomethane	ug/l																		
Chlorobenzene	ug/l																		
Chloroethane	ug/l																		
Chloroethene	ug/l																		
Chloroform	ug/l	2.5	100																
Chloromethane	ug/l																		
cis-1,2-Dichloroethene	ug/l																		
cis-1,3-Dichloropropene Dibromochloromethane	ug/l		100																
Dibromomethane	ug/l ug/l		100																
Dichlorodifluoromethane	ug/I																		+
Ethylbenzene	ug/l	20																	
Hexachlorobutadiene (HCBD)	ug/l	0.6																	
Isopropylbenzene	ug/l	0.0																	
m,p xylenes	ug/l	30																	
Methyl tert-butyl ether (MTBE)	ug/l																		
n-Butylbenzene	ug/l																		
n-propylbenzene	ug/l																		
O-Xylene	ug/l	30																	
Sec-Butylbenzene	ug/l																		
Styrene	ug/l	50																	
Tert-Butylbenzene	ug/l										,							,	
Tetrachloroethene	ug/l	10	10																
Tetrachloromethane (Carbon Tetra Chloride)	ug/l	12	3																
Toluene	ug/l	50																	1
trans-1,2-Dichloroethene	ug/l																		
trans-1,3-Dichloropropene	ug/l																		
Tribromomethane	ug/l		100					1			ļ	1	1	1		1			1
Trichloroethene	ug/l	10	10					1				1	1			1			1
Trichlorofluoromethane	ug/l		L	l								1	1	l	l				

Geological	Formation legend
MG	Made Ground
TFD	Tidal Flat Deposits
PEAT	Peat
MMG	Mercia Mudstone Group

Location		SBHK03	SBHK03	SBHK04	SBHK04	BH527	BH527	BH527	BH527	BH527	BH527	BH528	BH528	BH528	BH528	BH528	BH528	BH530	BH530	BH530	BH530	BH530	BH530
Monitoring Round		1	2	1	2		1		2	3	3		1		2		3		1		2		3
Location Type		BH	BH	BH	BH			Е	Н						3H					В	Н		
Response Zone (RZ) Details		TFD /	PEAT	TI	D	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD
Depth	Units	0.89	5.9	8.87	12.2	2.92	7.66	1.93	7.29	1.99	4.71	1.76	6.44	1.53	6.8	1.64	6.29	2.53	5.45	2.47	4.57	2.97	5.07
Installation Details						Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow
Strata Water Level Encountered on Sampling		N.	1G	TI	D																		
Date Sampled		26/02/2008	20/03/2008	26/02/2008	20/03/2008	20/03	/2015	27/03	/2015	13/04	/2015	20/03	3/2015	27/0	3/2015	13/04	4/2015	30/03	3/2015	14/04	/2015	21/04	4/2015
VOCs																							
Full suite	ug/l																						
1,1,1,2-Tetrachloroethane	ug/l											<2	<2			<2	<2					<2	<2
1,1,1-Trichloroethane	ug/l											<1	<1			<1	<1					<1	<1
1,1,2-Trichloroethane	ug/l											<10	<10			<10	<10					<10	<10
1,1-Dichloroethane	ug/l											<1	<1			<1	<1					<1	<1
1,1-Dichloroethene	ug/l											<1	<1 <1			<1 <1	<1 <1					<1	<1
1,1-Dichloropropene	ug/l											<1										<1	<1
1,2,3-Trichlorobenzene	ug/l											<2	<2			<2	<2				-	<2	<2
1,2,3-Trichloropropane 1,2,4-Trichlorobenzene	ug/l	1					-	-				<50 <1	<50 <1			<50 <1	<50 <1	1			 	<50 <1	<50 <1
1,2,4-Trimethylbenzene	ug/l ug/l	+						-				<1	<1			<1	<1	 			\vdash	<1	<1
1,2-Dibromo-3-Chloropropane	ug/I							-				<50	<50			<50	<50	 				<50	<50
1,2-Dibromoethane	ug/l							-				<5	<5			<5	<5	 				<5	<5
1.2-Dichlorobenzene	ug/I	-										<1	<1			<1	<1	1			\vdash	<1	<1
1,2-Dichloroethane	ug/I	 										<2	<2			<2	<2					<2	<2
1,2-Dichloropropane	ug/l											<1	<1			<1	<1					<1	<1
1,3,5-Trimethylbenzene	ug/l											<1	<1			<1	<1					<1	<1
1,3-Dichloropropane	ug/l											<2	<2			<2	<2					<2	<2
1,4-Dichlorobenzene	ug/l											<1	<1			<1	<1					<1	<1
2-Chlorotoluene	ug/l											<1	<1			<1	<1					<1	<1
4-Chlorotoluene	ug/l											<1	<1			<1	<1					<1	<1
4-Isopropyltoluene	ug/l											<1	<1			<1	<1					<1	<1
Benzene	ug/l					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	ug/l											<1	<1			<1	<1					<1	<1
Bromochloromethane	ug/l											<5	<5			<5	<5					<5	<5
Bromodichloromethane	ug/l											<5	<5			<5	<5					<5	<5
Bromomethane	ug/l											<5	<5			<5	<5					<5	<5
Chlorobenzene	ug/l											<1	<1			<1	<1					<1	<1
Chloroethane	ug/l											<2	<2			<2	<2					<2	<2
Chloroethene	ug/l											<1	<1			<1	<1					<1	<1
Chloroform	ug/l											<1	<1			<1	<1					<1	<1
Chloromethane	ug/l											<1	<1			<1	<1					<1	<1
cis-1,2-Dichloroethene	ug/l											<1	<1			<1	<1					<1	<1
cis-1,3-Dichloropropene	ug/l											<10	<10			<10	<10				-	<10	<10
Dibromochloromethane Dibromomethane	ug/l											<10 <10	<10 <10			<10 <10	<10 <10				-	<10 <10	<10 <10
Dichlorodifluoromethane	ug/l	1					-	-				<10	<10			<10	<10	1			\vdash	<10	<10
Ethylbenzene	ug/l ug/l					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene (HCBD)	ug/l	1				-1	-1	-1	-1	-1	-1	<1	<1	-1	-1	<1	<1		-1	-1	-4	<1	<1
Isopropylbenzene	ug/l											<1	<1			<1	<1	1				<1	<1
m,p xylenes	ug/l					<1	<1	<1	<1	<1	<1	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-butyl ether (MTBE)	ug/l											<1	<1			<1	<1	1				<1	<1
n-Butylbenzene	ug/l											<1	<1			<1	<1					<1	<1
n-propylbenzene	ug/l											<1	<1			<1	<1					<1	<1
O-Xylene	ug/l					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sec-Butylbenzene	ug/l											<1	<1			<1	<1					<1	<1
Styrene	ug/l											<1	<1			<1	<1					<1	<1
Tert-Butylbenzene	ug/l											<1	<1			<1	<1					<1	<1
Tetrachloroethene	ug/l											<1	<1			<1	<1					<1	<1
Tetrachloromethane (Carbon Tetra Chloride)	ug/l								-			<1	<1			<1	<1			_		<1	<1
Toluene	ug/l					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	ug/l											<1	<1			<1	<1	ļ				<1	<1
trans-1,3-Dichloropropene	ug/l											<10	<10			<10	<10	ļ				<10	<10
Tribromomethane	ug/l											<1	<1			<1	<1					<1	<1
Trichloroethene	ug/l											<1	<1			<1	<1					<1	<1
Trichlorofluoromethane	ug/l											<1	<1			<1	<1					<1	<1

M4CAN Groundwater Sample Analysis & Screening Assessment CL-27 01/07/2015 Screening Values & Assessment

EQS Environmental Quality Standards

DWS Drinking Water Standard Exceeds EQS Exceeds DWS Location
Monitoring Round
Location Type Laboratory detection level higher than screening criterion Notes

EQS calcium carbonate 100-150mg/l for heavy metals: chromium, copper, lead, nickel and zinc

Units

N/A = Not Available Response Zone (RZ) Details

Installation Details

Strata Water Level Encountered on Sampling								
Date Sampled		No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Installation Details of Maximum Concentration	No. Data Exceeding EQS	No. Data Exceeding DWS
VOCs								
Full suite	ug/l	2	0	None > LOD	None > LOD	I		
1,1,1,2-Tetrachloroethane	ug/l	6	0	None > LOD	None > LOD			
1,1,1-Trichloroethane	ug/l	6	0	None > LOD	None > LOD		0	
1,1,2-Trichloroethane	ug/l	6	0	None > LOD	None > LOD		0	
1,1-Dichloroethane	ug/l	6	0	None > LOD	None > LOD			
1,1-Dichloroethene	ug/l	6	0	None > LOD	None > LOD			
1,1-Dichloropropene	ug/l	6	0	None > LOD	None > LOD			
1,2,3-Trichlorobenzene	ug/l	6	0	None > LOD	None > LOD		0	
1,2,3-Trichloropropane	ug/l	6	0	None > LOD	None > LOD			
1,2,4-Trichlorobenzene	ug/l	6	0	None > LOD	None > LOD		0	
1.2.4-Trimethylbenzene	ug/l	6	0	None > LOD	None > LOD			
1,2-Dibromo-3-Chloropropane	ug/l	6	0	None > LOD	None > LOD			
1,2-Dibromoethane	ug/l	6	0	None > LOD	None > LOD			
1,2-Dichlorobenzene	ug/l	6	0	None > LOD	None > LOD		0	
1,2-Dichloroethane	ug/l	6	0	None > LOD	None > LOD		0	0
1,2-Dichloropropane	ug/l	6	0	None > LOD	None > LOD			-
1,3,5-Trimethylbenzene	ug/l	6	0	None > LOD	None > LOD			
1,3-Dichloropropane	ug/l	6	0	None > LOD	None > LOD			
1.4-Dichlorobenzene	ug/l	6	0	None > LOD	None > LOD		0	
2-Chlorotoluene	ug/l	6	0	None > LOD	None > LOD			
4-Chlorotoluene	ug/l	6	0	None > LOD	None > LOD			
4-Isopropyltoluene	ug/I	6	0	None > LOD	None > LOD			
Benzene		18	0	None > LOD	None > LOD		0	0
Bromobenzene	ug/l ug/l	6	0	None > LOD	None > LOD		U	U
Bromochloromethane		6	0	None > LOD	None > LOD			0
	ug/l		0	None > LOD	None > LOD			U
Bromodichloromethane	ug/l	6	0	None > LOD None > LOD	None > LOD None > LOD			
Bromomethane	ug/l	6	0					
Chlorobenzene	ug/l	6	0	None > LOD None > LOD	None > LOD None > LOD			
Chloroethane	ug/l							
Chloroethene	ug/l	6	0	None > LOD	None > LOD			
Chloroform	ug/l	6	0	None > LOD	None > LOD		0	0
Chloromethane	ug/l	6	0	None > LOD	None > LOD			
cis-1,2-Dichloroethene	ug/l	6		None > LOD	None > LOD			
cis-1,3-Dichloropropene Dibromochloromethane	ug/l	6	0	None > LOD None > LOD	None > LOD None > LOD			0
	ug/l							U
Dibromomethane	ug/l	6	0	None > LOD	None > LOD			
Dichlorodifluoromethane	ug/l	6	0	None > LOD	None > LOD			
Ethylbenzene	ug/l	18	0	None > LOD	None > LOD		0	
Hexachlorobutadiene (HCBD)	ug/l	6	0	None > LOD	None > LOD		0	
Isopropylbenzene	ug/l	6	0	None > LOD	None > LOD			
m,p xylenes	ug/l	18	1	1.3	1.3	1 @ Deep	0	
Methyl tert-butyl ether (MTBE)	ug/l	6	0	None > LOD	None > LOD		-	
n-Butylbenzene	ug/l	6	0	None > LOD	None > LOD			
n-propylbenzene	ug/l	6	0	None > LOD	None > LOD			
O-Xylene	ug/l	18	0	None > LOD	None > LOD		0	
Sec-Butylbenzene	ug/l	6	0	None > LOD	None > LOD			
Styrene	ug/l	6	0	None > LOD	None > LOD		0	
Tert-Butylbenzene	ug/l	6	0	None > LOD	None > LOD			
Tetrachloroethene	ug/l	6	0	None > LOD	None > LOD		0	0
Tetrachloromethane (Carbon Tetra Chloride)	ug/l	6	0	None > LOD	None > LOD		0	0
Toluene	ug/l	18	0	None > LOD	None > LOD		0	
trans-1,2-Dichloroethene	ug/l	6	0	None > LOD	None > LOD			
trans-1,3-Dichloropropene	ug/l	6	0	None > LOD	None > LOD			
Tribromomethane	ug/l	6	0	None > LOD	None > LOD			0
Trichloroethene	ug/l	6	0	None > LOD	None > LOD		0	0
Trichlorofluoromethane	ug/l	6	0	None > LOD	None > LOD			

Location		Screenin	g Criteria	CH 51	CH52	CH52 A	RBBH003	RBBH003	RBBH003	RBBH004	RBBH004	RBBH004	RBBH005	RBBH005	RBBH005	SBHK01	SBHK01	SBHK02	SBHK02
Monitoring Round							1	2	3	1	2	3	1	2	3	1	2	1	2
Location Type				TP	TP	TP	BH	BH	BH	BH	BH	BH	BH	BH	BH	BH	BH	BH	BH
Response Zone (RZ) Details				MG	MG	MG		TFD / PEAT			TFD / PEAT			MG / TFD		TFD	/ PEAT	TFD /	/ PEAT
Depth	Units		B11/6													1	6.8	1.33	11.2
Installation Details		EQS	DWS																
Strata Water Level Encountered on Sampling				MG	MG	MG										Т	FD	N	/IG
Date Sampled				2000	2000	2000		05/03/2002			01/03/2002			01/03/2002		26/02/2008	20/03/2008	26/02/2008	20/03/2008
Other Semi-Volatiles																			
1,2-Dichlorobenzene	ug/l	20														<1	<1	<1	<1
1,2,4-Trichlorobenzene	ug/l	0.4														<1	<1	<1	<1
1,3-Dichlorobenzene	ug/l	20														<1	<1	<1	<1
1,4-Dichlorobenzene	ug/l	20														<1	<1	<1	<1
2-Nitroaniline	ug/l															<1	<1	<1	<1
2,4-Dinitrotoluene	ug/l															<1	<1	<1	<1
2,6-Dinitrotoluene	ug/l															<1	<1	<1	<1
2-Methylnaphthalene	ug/l																		
3-Nitroaniline	ug/l															<1	<1	<1	<1
4-Bromophenylphenylether	ug/l															<1	<1	<1	<1
4-Chloroaniline	ug/l															<1	<1	<1	<1
4-Chlorophenylphenylether	ug/l															<1	<1	<1	<1
4-Nitroaniline	ug/l															<1	<1	<1	<1
Azobenzene	ug/l															<1	<1	<1	<1
Bis(2-chloroethoxy)methane	ug/l															<1	<1	<1	<1
Bis(2-chloroethyl)ether	ug/l															<1	<1	<1	<1
Bis(2-chloroisopropyl)ether	ug/l																		
Carbazole	ug/l															<1	<1	<1	<1
Dibenzofuran	ug/l															<1	<1	<1	<1
Hexachlorobenzene	ug/l	0.05												1		<1	<1	<1	<1
Hexachlorobutadiene	ug/l	0.6														<1	<1	<1	<1
Hexachlorocyclopentadiene	ug/l															<1	<1	<1	<1
Hexachloroethane	ug/l													1		<1	<1	<1	<1
Isophorone	ug/l															<1	<1	<1	<1
N-nitrosodi-n-propylamine	ug/l															<1	<1	<1	<1
Nitrobenzene	ug/l															<1	<1	<1	<1

M4CAN

Groundwater Sample Analysis & Screening Assessment CL-27 01/07/2015

Geological Formation legend

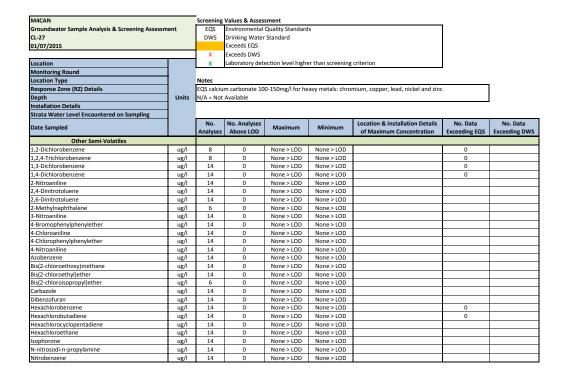
MG Made Ground

TFD Tidal Flat Deposits

PEAT Peat

MMG Mercia Mudstone Group

		CDIWOS	CDIWOS	CDLUGA	CDLUGA	DUE27 1		DUEST	D.115.37	B.1527	B.115.33	DUESO	DUESO	DUESO	BUESS	DUESO	DUESO	DUESO	DUESS	DUESS	DUESS	DUESS	DUESO
Location	-	SBHK03	SBHK03	SBHK04	SBHK04	BH527 I	3H527	BH527	BH527	BH527	BH527	BH528	BH528	BH528	BH528	BH528	BH528	BH530	BH530	BH530	BH530	BH530	BH530
Monitoring Round		1	2	1	2	1			2		3		1		2		3		1				3
Location Type	_	BH	BH	BH	BH				ВН				1		ВН					BH			
Response Zone (RZ) Details			/ PEAT		FD		TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD
Depth	Units	0.89	5.9	8.87	12.2		7.66	1.93	7.29	1.99	4.71	1.76	6.44	1.53	6.8	1.64	6.29	2.53	5.45	2.47	4.57	2.97	5.07
Installation Details						Deep S	hallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow
Strata Water Level Encountered on Sampling		N	ИG	Т	FD																		
Date Sampled		26/02/2008	20/03/2008	26/02/2008	20/03/2008	20/03/20	15	27/03	3/2015	13/0	/2015	20/03	3/2015	27/0	3/2015	13/04	4/2015	30/03	3/2015	14/04/	/2015	21/04	4/2015
Other Semi-Volatiles																							
1,2-Dichlorobenzene	ug/l	<1	<1	<1	<1																		
1,2,4-Trichlorobenzene	ug/l	<1	<1	<1	<1																		
1,3-Dichlorobenzene	ug/l	<1	<1	<1	<1							<0.5	< 0.5			< 0.5	<0.5					< 0.5	<0.5
1,4-Dichlorobenzene	ug/l	<1	<1	<1	<1							<0.5	< 0.5			< 0.5	< 0.5					< 0.5	<0.5
2-Nitroaniline	ug/l	<1	<1	<1	<1							<0.5	< 0.5			<0.5	<0.5					<0.5	<0.5
2,4-Dinitrotoluene	ug/l	<1	<1	<1	<1							<0.5	< 0.5			< 0.5	< 0.5					< 0.5	<0.5
2,6-Dinitrotoluene	ug/l	<1	<1	<1	<1							< 0.5	< 0.5			< 0.5	< 0.5					<0.5	<0.5
2-Methylnaphthalene	ug/l											<0.5	< 0.5			< 0.5	<0.5					<0.5	< 0.5
3-Nitroaniline	ug/l	<1	<1	<1	<1							<0.5	< 0.5			<0.5	<0.5					<0.5	<0.5
4-Bromophenylphenylether	ug/l	<1	<1	<1	<1							< 0.5	< 0.5			< 0.5	< 0.5					<0.5	<0.5
4-Chloroaniline	ug/l	<1	<1	<1	<1							<0.5	< 0.5			< 0.5	<0.5					<0.5	< 0.5
4-Chlorophenylphenylether	ug/l	<1	<1	<1	<1							< 0.5	< 0.5			< 0.5	< 0.5					<0.5	<0.5
4-Nitroaniline	ug/l	<1	<1	<1	<1							< 0.5	< 0.5			< 0.5	< 0.5					<0.5	<0.5
Azobenzene	ug/l	<1	<1	<1	<1							< 0.5	< 0.5			< 0.5	< 0.5					<0.5	<0.5
Bis(2-chloroethoxy)methane	ug/l	<1	<1	<1	<1							< 0.5	< 0.5			< 0.5	< 0.5					<0.5	<0.5
Bis(2-chloroethyl)ether	ug/l	<1	<1	<1	<1							< 0.5	< 0.5			< 0.5	< 0.5					<0.5	<0.5
Bis(2-chloroisopropyl)ether	ug/l											< 0.5	< 0.5			< 0.5	< 0.5					<0.5	<0.5
Carbazole	ug/l	<1	<1	<1	<1							< 0.5	< 0.5			< 0.5	< 0.5					<0.5	<0.5
Dibenzofuran	ug/l	<1	<1	<1	<1							< 0.5	< 0.5			< 0.5	< 0.5					< 0.5	< 0.5
Hexachlorobenzene	ug/l	<1	<1	<1	<1							<0.5	<0.5			<0.5	<0.5					<0.5	<0.5
Hexachlorobutadiene	ug/l	<1	<1	<1	<1							<0.5	<0.5			< 0.5	<0.5					<0.5	<0.5
Hexachlorocyclopentadiene	ug/l	<1	<1	<1	<1							<0.5	<0.5			< 0.5	<0.5					<0.5	<0.5
Hexachloroethane	ug/l	<1	<1	<1	<1							< 0.5	< 0.5			< 0.5	< 0.5					<0.5	<0.5
Isophorone	ug/l	<1	<1	<1	<1							<0.5	<0.5			< 0.5	<0.5					<0.5	<0.5
N-nitrosodi-n-propylamine	ug/l	<1	<1	<1	<1							< 0.5	<0.5			< 0.5	< 0.5					<0.5	<0.5
Nitrobenzene	ug/l	<1	<1	<1	<1							<0.5	<0.5			<0.5	<0.5					<0.5	<0.5



A5 Appendix 5

Surface Water Laboratory Data

Monitoring Round / Location		Scr	eening Crite	eria	1 / EESW1	2 / EESW1	3 / EESW1	4 / EESW1	Q1 / 17.1	Q1 / 17.2	Q1 / 17.3	E1 / R14	E2 / R14	E3 / R14	E4 / R14	E1 / R15
Date Sampled					03/03/2004	15/06/2004	20/09/2004	06/05/2005	03/06/2015	03/06/2015	03/06/2015	11/12/2007	17/03/2008	23/06/2008	24/09/2008	11/12/2007
	Units	EQS	DWS	ccw												
Metals & Non-Metal Inorganics																
Hardness Total	mg/l											226	135	236	287	204
Arsenic Dissolved	ug/l	50	10		2	2	<1	1	1.01	5.31	3.02					
Boron Dissolved	ug/l	2000	1000		180	90	60	80								
Calcium Dissolved	ug/l			300000					54.1	142	69	72	36	58	73	52
Cadmium Dissolved	ug/l	0.15	5	5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.436					
Chromium Dissolved	ug/l		50		<1	<1	1	<1	1.42	5.79	2.25	<0.22	<0.22	<0.22	<0.22	<0.22
Copper Dissolved	ug/l	10	2000		<1	<1	<1	2				<0.85	<0.85	<0.85	<0.85	<0.85
Lead Dissolved	ug/l	1.2	10	250	<1	<1	<1	<1	0.143	0.049	0.21	<0.02	<0.02	<0.02	<0.02	<0.02
Magnesium Dissolved	ug/l											15	8.8	17	16	14
Nickel Dissolved	ug/l	4	20	100	8	7	4	4	2.23	4.1	2.44	<1	<1	<1	<1	<1
Selenium Dissolved	ug/l		10		3	3	1	2	0.69	1.51	6.22					
Zinc Dissolved	ug/l	75		1000	<2	11	6	<2								
Manganese Dissolved	ug/l	30	50		<2	<10	37	7								
Iron Dissolved	ug/l	1000	200		<10	<10	<10	<10								
Mercury Dissolved	ug/l	0.07	1		<0.1	<0.1	<0.1	<0.1								
Molybdenum Dissolved	ug/l	0.45	_													
Cadmium Total	ug/l	0.15	5	5								<0.5	<0.5	1.5	<0.5	<0.5
Zinc Total	ug/l	75		1000								28	52	22	38	99
BOD	mg/l	5	=0	18				0.0	<1	2.4	15.7	9	8	2	3	3
Nitrate as N	mg/l		50	1	<0.3	1.4	<0.3	<0.3				<0.3	0.9	<0.3	<0.3	3.6
Nitrate as NO3	mg/l		50	1					41.5	<0.3	<0.3	1.3	3.99	<0.3	<0.3	15.9
Nitrite as N	mg/l		0.15	1								<0.1	<0.1	<0.1	<0.1	<0.1
Nitrite as NO2	mg/l		0.5	1					0.156	0.06	0					
Nitrogen, Total Oxidised as N	mg/l		50	2				0.00	9.43	<0.3	<0.3	<0.3	0.9	<0.3	<0.3	3.6
Phosphate, Ortho as P	mg/l	420		1	0.02	0.04	0.02	0.03	220	1200	402	0.2	0.3	1.2	0.2	0.1
Phosphorus (tot.unfilt)	ug/l	120	250	200		-	1		229	1200	402					
Sulphate (soluble)	mg/l	400	250	300	400	267	474	2.45	24.6	42.3	114	47		4.5	40	<u> </u>
Sulphate as SO4	mg/l	400	250	300	400	367	171	245		1		47	<5	16	19	26
Toluene Extractable Material	mg/l	250	250	300	<6 582	<6 611	<6 424	81 429	22.2	248	785	20	22	25	2.4	 31
Chloride	mg/l	250	250	300	582	611	424	429	32.3	248	/85	39	22	25	34	21
Sulphide	mg/l	0.6		1	2.2	2.2	2.1	1.7	0.426	0.369	0.200	0.04	0.22	*0.01	0.05	0.05
Ammoniacal Nitrogen as N	mg/l	0.6		1	3.2	3.2	2.1	1.7	0.426	0.369	0.266	0.04	0.22	<0.01	0.05	0.05
Cyanide Free	mg/l	0.004	0.05		0.07	-0.05	-0.05	-0.05		1						
Cyanide Total	mg/l	0.001	0.05		0.07	<0.05	<0.05	<0.05		-						\vdash
Thiocyanate as SCN	mg/l	!			0.6	0.8	0.4	0.3	6.5	2.40	14.6	2.54	F 27	1.02	1.62	0.50
Dissolved Oxygen	mg/l					-	1		6.5	2.48	14.6	2.54	5.27	1.03	1.63	9.58
Dissolved Oxygen (Saturation)	%	60	6.5.46	6005	42.4	44.0	0.5	10.3		1	ļ	20.2	45.6	10.5	16.1	74.2
pH Value	pH units	6-9	6.5-10	6.8-8.5	12.1	11.8	8.6	10.2		-		7.3	7.3	7.7	7.3	7.6
Conductivity	us/cm				4490	3710	1940	1880		1						

Monitoring Round / Location		E2 / R15	E3 / R15	E4 / R15	E1 / R16	E2 R/16	E3 / R16	E4 / R16	1 / SW506	2 / SW506	3 / SW506	1 /SW507	2 / SW507	3 / SW507	1 / SW508	3 / SW508
Date Sampled		17/03/2008	23/06/2008	24/09/2008	11/12/2007	17/03/2008	23/06/2008	24/09/2008	01/04/2015	15/04/2015	22/04/2015	01/04/2015	15/04/2015	22/04/2015	01/04/2015	22/04/2015
	Units															
Metals & Non-Metal Inorganics																
Hardness Total	mg/l	169	257	245	253	150	290	324								
Arsenic Dissolved	ug/l								1.5	4.6	1.5	1.9	2.8	2.2	1.4	<1
Boron Dissolved	ug/l								710	920	120	690	910	90	670	47
Calcium Dissolved	ug/l	82	63	56	63	84	71	84								L
Cadmium Dissolved	ug/l								<0.08	2.9	0.097	<0.08	<0.08	<0.08	<0.08	<0.08
Chromium Dissolved	ug/l	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	9.3	6.2	<0.22	10	4.6	<0.22	10	<0.22
Copper Dissolved	ug/l	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85								<u> </u>
Lead Dissolved	ug/l	<0.02	7	<0.02	<0.02	<0.02	<0.02	<0.02	1	<0.02	1.3	<0.02	<0.02	<0.02	<0.02	<0.02
Magnesium Dissolved	ug/l	17	23	20	18	18	30	28								1
Nickel Dissolved	ug/l	<1	<1	<1	<1	<1	<1	<1	1.5	4.2	1.3	1.6	1.5	2	1	<1
Selenium Dissolved	ug/l								<1	4.9	1.6	<1	1.9	1.5	<1	1.3
Zinc Dissolved	ug/l															İ
Manganese Dissolved	ug/l															İ
Iron Dissolved	ug/l															İ
Mercury Dissolved	ug/l															İ
Molybdenum Dissolved	ug/l															ĺ
Cadmium Total	ug/l	<0.5	1.8	<0.5	<0.5	<0.5	1.8	<0.5								ĺ
Zinc Total	ug/l	42	26	310	38	24	6	18								ĺ
BOD	mg/l	3	<1	1	<1	<1	1	<1								ĺ
Nitrate as N	mg/l	1.8	<0.3	3.1	2.2	1.5	<0.3	1.7								ĺ
Nitrate as NO3	mg/l	7.97	<0.3	13.733	9.7	6.64	<0.3	7.531								
Nitrite as N	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2								ĺ
Nitrite as NO2	mg/l															ĺ
Nitrogen, Total Oxidised as N	mg/l	1.8	<0.3	3.2	2.3	1.6	<0.3	1.9								ĺ
Phosphate, Ortho as P	mg/l	0.2	1.1	<0.1	0.2	0.2	1.1	<0.1								ĺ
Phosphorus (tot.unfilt)	ug/l															ĺ
Sulphate (soluble)	mg/l															ĺ
Sulphate as SO4	mg/l	26	25	26	42	25	23	33								ĺ
Toluene Extractable Material	mg/l															ĺ
Chloride	mg/l	28	38	21	28	25	37	29	49	52		210	250	320		ĺ
Sulphide	mg/l															ĺ
Ammoniacal Nitrogen as N	mg/l	0.15	<0.01	0.13	0.2	0.16	<0.01	0.19	0.044	0.044	0.075	0.35	0.16	1.2	0.13	0.35
Cyanide Free	mg/l			t					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Cyanide Total	mg/l			t												
Thiocyanate as SCN	mg/l			t								1				
Dissolved Oxygen	mg/l	7.58	9.61	6.98	8.67	7.99	8.14	6.01				1				
Dissolved Oxygen (Saturation)	%	64	98.2	64.7	66.8	67.8	85.6	57.7				1				
pH Value	pH units	7.6	7.9	7.6	7.6	7.6	8.1	7.6	8.7	8.9	8.6	8.7	8.9	8.5	8.9	8.6
Conductivity	us/cm		-	-												
	43/ 0111		1	1			1		I			1	I			

Monitoring Round / Location	
Date Sampled	
	Units
Metals & Non-Metal Inorganics	
Hardness Total	mg/l
Arsenic Dissolved	ug/l
Boron Dissolved	ug/l
Calcium Dissolved	ug/l
Cadmium Dissolved	ug/l
Chromium Dissolved	ug/l
Copper Dissolved	ug/l
Lead Dissolved	ug/l
Magnesium Dissolved	ug/l
Nickel Dissolved	ug/l
Selenium Dissolved	ug/l
Zinc Dissolved	ug/l
Manganese Dissolved	ug/l
Iron Dissolved	ug/l
Mercury Dissolved	ug/l
Molybdenum Dissolved	ug/l
Cadmium Total	ug/l
Zinc Total	ug/l
BOD	mg/l
Nitrate as N	mg/l
Nitrate as NO3	mg/l
Nitrite as N	mg/l
Nitrite as NO2	mg/l
Nitrogen, Total Oxidised as N	mg/l
Phosphate, Ortho as P	mg/l
Phosphorus (tot.unfilt)	ug/l
Sulphate (soluble)	mg/l
Sulphate as SO4	mg/l
Toluene Extractable Material	mg/l
Chloride	mg/l
Sulphide	mg/l
Ammoniacal Nitrogen as N	mg/l
Cyanide Free	mg/l
Cyanide Total	mg/l
Thiocyanate as SCN	mg/l
Dissolved Oxygen	mg/l
Dissolved Oxygen (Saturation)	%
pH Value	pH units
Conductivity	us/cm

Screening Values and Assessment

EQS	Environmental Quality Standards
	Exceeds EQS
100	Exceeds DWS
<10	Laboratory detection level higher than screening criterion
BOL/ITA	Exceeds CCW

Notes

EQS calcium carbonate 100 - 150mg/l for heavy metals: chromium, copper, lead, nickel and zinc
NDP - No determination possible

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Round of Maximum Concentration	No. Data Exceeding EQS	No. Data Exceeding DWS	No. Data Exceeding CCW
12	12	324	135	E4 / R16			
15	13	5.31	1	Q1 / 17.2	0	0	
12	12	920	47	2 / SW506	0	0	
15	15	142	36	Q1 / 17.2			0
15	3	2.9	0.097	2 / SW506	2	0	0
27	9	10	1	1 /SW507		0	
16	1	2	2	4 / EESW1	0	0	
27	6	7	0.049	E3 / R15	2	0	0
12	12	30	8.8	E3 / R16			
27	14	8	1	1 / EESW1	4	0	0
15	12	6.22	0.69	Q1 / 17.3		0	
4	2	11	6	2 / EESW1	0		0
4	2	37	7	3 / EESW1	1	0	
4	0	None > LOD	None > LOD		0	0	
4	0	None > LOD	None > LOD		0	0	
0	0	None > LOD	None > LOD				
12	3	1.8	1.5	E3 / R15	3	0	0
12	12	310	6	E4 / R15	2	0	0
15	10	15.7	1	Q1 / 17.3	3		0
16	8	3.6	0.9	E1 / R15		0	7
15	9	41.5	1.3	Q1 / 17.1		0	9
12	1	0.2	0.2	E4 / R16		1	0
3	3	0.156	0	Q1 / 17.1		0	0
15	8	9.43	0.9	Q1 / 17.1		0	4
16	14	1.2	0.02	E3 / R14			3
3	3	1200	229	Q1 / 17.2	3		0
3	3	114	24.6	Q1 / 17.3	0	0	0
16	15	400	16	1 / EESW1	0	2	2
4	1	81	81	4 / EESW1		0	0
24	24	785	21	Q1 / 17.3	6	6	6
0	0	None > LOD	None > LOD				
27	24	3.2	0.04	1 / EESW1	5		5
8	0	None > LOD	None > LOD				
4	1	0.07	0.07	1 / EESW1	1	1	
4	4	0.8	0.3	2 / EESW1			
15	15	14.6	1.03	Q1 / 17.3	0		
12	12	98.2	10.5	E3 / R15	7		
24	24	12.1	7.3	1 / EESW1	0	0	0
4	4	4490	1880	1 / EESW1		0	0

Monitoring Round / Location		Scr	eening Crite	eria	1 / EESW1	2 / EESW1	3 / EESW1	4 / EESW1	Q1 / 17.1	Q1 / 17.2	Q1 / 17.3	E1 / R14	E2 / R14	E3 / R14	E4 / R14	E1 / R15
Date Sampled	-				03/03/2004	15/06/2004	20/09/2004	06/05/2005	03/06/2015	03/06/2015	03/06/2015	11/12/2007	17/03/2008	23/06/2008	24/09/2008	11/12/2007
	Units	EQS	DWS	ccw								, ,	, ,			
Organics																
GRO (C5-C12)	ug/l								<50	<50	<50					
MTBE	ug/l								<3	<3	<3					
Benzene	ug/l	10	1						<7	<7	<7					
Toluene	ug/l	50							<4	<4	<4					
Ethyl benzene	ug/l	20							<5	<5	<5					1
m & p Xylene	ug/l	30							<8	<8	<8					1
o Xylene	ug/l	30							<3	<3	<3					1
ТРН			•	•												
Aliphatics C5-C6	ug/l								<10	<10	<10					
Aliphatics >C6-C8	ug/l								<10	<10	<10					
Aliphatics >C8-C10	ug/l								<10	<10	<10					
Aliphatics >C10-C12	ug/l								<10	<10	<10					
Aliphatics >C12-C16 Aqueous	ug/l								<10	<10	<10					
Aliphatics >C16-C21 Aqueous	ug/l								<10	<10	<10					
Aliphatics >C21-C35 Aqueous	ug/l								<10	<10	<10					1
Total Aliphatics C12-C35 Aqueous	ug/l															
Aromatics >C5-C7	ug/l								<10	<10	<10					1
Aromatics >C7-C8	ug/l								<10	<10	<10					
Aromatics >EC8-EC10	ug/l								<10	<10	<10					
Aromatics >EC10-EC12	ug/l								<10	<10	<10					1
Aromatics >EC12-EC16 Aqueous	ug/l								<10	<10	<10					1
Aromatics >EC16-EC21 Aqueous	ug/l								<10	<10	<10					
Aromatics >EC21-EC35 Aqueous	ug/l								<10	<10	<10					
Total Aromatics C12-C35 Aqueous	ug/l								<10	<10	<10					
Total Aliphatic TPH	ug/l															
TPH >C6-C8	ug/l											<40	<40	<40	<40	<40
TPH >C8-C10	ug/l											<40	<40	<40	<40	<40
TPH >C10-C16	ug/l											<80	<80	<80	<80	<80
TPH >C16-C24	ug/l											<80	<80	<80	<80	<80
TPH >C24-C40	ug/l											<200	<200	<200	<200	<200
TPH >C6-C40	ug/l											<200	<200	<200	<200	<200
Total petroleum hydrocarbons	ug/l															

Monitoring Round / Location		E2 / R15	E3 / R15	E4 / R15	E1 / R16	E2 R/16	E3 / R16	E4 / R16	1 / SW506	2 / SW506	3 / SW506	1 /SW507	2 / SW507	3 / SW507	1 / SW508	3 / SW508
Date Sampled		17/03/2008	23/06/2008	24/09/2008	11/12/2007	17/03/2008	23/06/2008	24/09/2008	01/04/2015	15/04/2015	22/04/2015	01/04/2015	15/04/2015	22/04/2015	01/04/2015	22/04/2015
	Units															
Organics																
GRO (C5-C12)	ug/l															
MTBE	ug/l									<1	<1	<1	<1	<1	<1	<1
Benzene	ug/l									<7	<7	<7	<7	<7	<7	<7
Toluene	ug/l									<4	<4	<4	<4	<4	<4	<4
Ethyl benzene	ug/l									<5	<5	<5	<5	<5	<5	<5
m & p Xylene	ug/l									<8	<8	<8	<8	<8	<8	<8
o Xylene	ug/l									<3	<3	<3	<3	<3	<3	<3
ТРН		•	•	•	•	•			•					•		
Aliphatics C5-C6	ug/l		1				l			<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	ug/l									<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	ug/l									<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	ug/l									<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16 Aqueous	ug/l									<10	<10	<10	<10	<10	<10	<10
Aliphatics >C16-C21 Aqueous	ug/l									<10	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35 Aqueous	ug/l									<10	<10	<10	<10	<10	<10	<10
Total Aliphatics C12-C35 Aqueous	ug/l															
Aromatics >C5-C7	ug/l									<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	ug/l									<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	ug/l									<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	ug/l									<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16 Aqueous	ug/l									<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21 Aqueous	ug/l									<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35 Aqueous	ug/l									<10	<10	<10	<10	<10	<10	<10
Total Aromatics C12-C35 Aqueous	ug/l															
Total Aliphatic TPH	ug/l									<5	<5	<5	<5	<5	<5	<5
TPH >C6-C8	ug/l	<40	<40	<40	<40	<40	<40	<40	<40							
TPH >C8-C10	ug/l	<40	<40	<40	<40	<40	<40	<40	<40							
TPH >C10-C16	ug/l	<80	<80	<80	<80	<80	<80	<80	<80							
TPH >C16-C24	ug/l	<80	<80	<80	<80	<80	<80	<80	<80							
TPH >C24-C40	ug/l	<200	<200	<200	<200	<200	<200	<200	<200							
TPH >C6-C40	ug/l	<200	<200	<200	<200	<200	<200	<200	<200							
Total petroleum hydrocarbons	ug/l	İ	1			İ				<10	<10	<10	<10	<10	<10	<10

Monitoring Round / Location	
Date Sampled	
	Units
Organics	
GRO (C5-C12)	ug/l
MTBE	ug/l
Benzene	ug/l
Toluene	ug/l
Ethyl benzene	ug/l
m & p Xylene	ug/l
o Xylene	ug/l
ТРН	
Aliphatics C5-C6	ug/l
Aliphatics >C6-C8	ug/l
Aliphatics >C8-C10	ug/l
Aliphatics >C10-C12	ug/l
Aliphatics >C12-C16 Aqueous	ug/l
Aliphatics >C16-C21 Aqueous	ug/l
Aliphatics >C21-C35 Aqueous	ug/l
Total Aliphatics C12-C35 Aqueous	ug/l
Aromatics >C5-C7	ug/l
Aromatics >C7-C8	ug/l
Aromatics >EC8-EC10	ug/l
Aromatics >EC10-EC12	ug/l
Aromatics >EC12-EC16 Aqueous	ug/l
Aromatics >EC16-EC21 Aqueous	ug/l
Aromatics >EC21-EC35 Aqueous	ug/l
Total Aromatics C12-C35 Aqueous	ug/l
Total Aliphatic TPH	ug/l
TPH >C6-C8	ug/l
TPH >C8-C10	ug/l
TPH >C10-C16	ug/l
TPH >C16-C24	ug/l
TPH >C24-C40	ug/l
TPH >C6-C40	ug/l
Total petroleum hydrocarbons	ug/l

Screening Values and Assessment

EQS	Environmental Quality Standards
	Exceeds EQS
100	Exceeds DWS
<10	Laboratory detection level higher than screening criterion
BOL/ITA	Exceeds CCW

Notes

EQS calcium carbonate 100 - 150mg/l for heavy metals: chromium, copper, lead, nickel and zinc
NDP - No determination possible

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Round of Maximum Concentration	No. Data Exceeding EQS	No. Data Exceeding DWS	No. Data Exceeding CCW
	_						
3	0	None > LOD	None > LOD				
10	0	None > LOD	None > LOD				
10	0	None > LOD	None > LOD		0	0	
10	0	None > LOD	None > LOD		0		
10	0	None > LOD	None > LOD		0		
10	0	None > LOD	None > LOD		0		
10	0	None > LOD	None > LOD		0		
10	0	None > LOD	None > LOD				0
10	0	None > LOD	None > LOD				
10	0	None > LOD	None > LOD				
10	0	None > LOD	None > LOD				
10	0	None > LOD	None > LOD				0
10	0	None > LOD	None > LOD				0
10	0	None > LOD	None > LOD				0
0	0	None > LOD	None > LOD				
10	0	None > LOD	None > LOD				
10	0	None > LOD	None > LOD				
10	0	None > LOD	None > LOD				
10	0	None > LOD	None > LOD				
10	0	None > LOD	None > LOD				0
10	0	None > LOD	None > LOD				0
10	0	None > LOD	None > LOD				0
3	0	None > LOD	None > LOD				
7	0	None > LOD	None > LOD				
13	0	None > LOD	None > LOD				
13	0	None > LOD	None > LOD				
13	0	None > LOD	None > LOD				
13	0	None > LOD	None > LOD				
13	0	None > LOD	None > LOD				
13	0	None > LOD	None > LOD				
7	0	None > LOD	None > LOD				

Monitoring Round / Location		Scre	eening Crite	eria	1 / EESW1	2 / EESW1	3 / EESW1	4 / EESW1	Q1 / 17.1	Q1 / 17.2	Q1 / 17.3	E1 / R14	E2 / R14	E3 / R14	E4 / R14	E1 / R15
Date Sampled	T				03/03/2004	15/06/2004	20/09/2004	06/05/2005	03/06/2015	03/06/2015	03/06/2015	11/12/2007	17/03/2008	23/06/2008	24/09/2008	11/12/2007
	Units	EQS	DWS	ccw												
Phenols																
2-Chlorophenol	ug/l	50								ĺ						
2 - Methyl-4,6-Dinitrophenol	ug/l															
2-Methylphenol	ug/l	100														
2-Nitrophenol	ug/l															
2,4-Dichlorophenol	ug/l	20							İ							
2,4-Dimethylphenol	ug/l								İ							
2,4,5-Trichlorophenol	ug/l								İ							
2,4,6-Trichlorophenol	ug/l															
4-Chloro-3-methylphenol	ug/l	40							İ							
4-Methylphenol	ug/l	100														
Pentachlorophenol	ug/l	0.4														
Phenol	ug/l	7.7														
Phenols	mg/l	0.0077														
Phenol Index	mg/l				0.05	<0.05	<0.05	<0.05								
PAHs										L.						
2-Chloronaphthalene	ug/l									ĺ						
2-Methylnaphthalene	ug/l															
Acenaphthene	ug/l								< 0.015	<0.015	<0.015					
Acenaphthylene	ug/l								<0.1	<0.1	<0.1					
Anthracene	ug/l	0.1							<0.015	<0.015	<0.015					
Benzo(a)anthracene	ug/l								<0.017	<0.017	<0.017					
Benzo(a)pyrene	ug/l	0.00017	0.01						<0.1	<0.1	<0.1					
Benzo(b)fluoranthene	ug/l	0.017	0.1						<0.1	<0.1	<0.1					
Benzo(k)fluoranthene	ug/l	0.017	0.1						<0.1	<0.1	<0.1					
Benzo(ghi)perylene	ug/l	0.0082	0.1						<0.016	<0.016	<0.016					
Indeno(1,2,3-cd)pyrene	ug/l		0.1						<0.1	<0.1	<0.1					
Chrysene	ug/l								<0.1	<0.1	<0.1					1
Dibenzo(a,h)anthracene	ug/l								<0.1	<0.1	<0.1					
Fluoranthene	ug/l	0.0063							<0.1	<0.1	<0.1					
Fluorene	ug/l								<0.1	<0.1	<0.1					
Naphthalene	ug/l	2							0.318	<0.1	<0.1					
Phenanthrene	ug/l								<0.1	<0.1	<0.1					
Pyrene	ug/l								<0.1	<0.1	<0.1					1
Total PAHs (USEPA 16)	ug/l						İ		<0.344	<0.344	<0.344					

Monitoring Round / Location		E2 / R15	E3 / R15	E4 / R15	E1 / R16	E2 R/16	E3 / R16	E4 / R16	1 / SW506	2 / SW506	3 / SW506	1 /SW507	2 / SW507	3 / SW507	1 / SW508	3 / SW508
Date Sampled		17/03/2008	23/06/2008	24/09/2008	11/12/2007	17/03/2008	23/06/2008	24/09/2008	01/04/2015	15/04/2015	22/04/2015	01/04/2015	15/04/2015	22/04/2015	01/04/2015	22/04/2015
·	Units															
	Ullits															
Phenols																
2-Chlorophenol	ug/l									<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2 - Methyl-4,6-Dinitrophenol	ug/l									<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-Methylphenol	ug/l									<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	ug/l									<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol	ug/l									<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	ug/l									<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,5-Trichlorophenol	ug/l									<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	ug/l									<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-Chloro-3-methylphenol	ug/l									<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	ug/l									<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	ug/l									<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenol	ug/l									<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenols	mg/l									<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03
Phenol Index	mg/l															
PAHs																
2-Chloronaphthalene	ug/l									<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-Methylnaphthalene	ug/l									<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	ug/l									< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Acenaphthylene	ug/l									<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	ug/l									< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Benzo(a)anthracene	ug/l									< 0.017	< 0.017	< 0.017	< 0.017	<0.017	< 0.017	< 0.017
Benzo(a)pyrene	ug/l									<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene	ug/l									<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	ug/l									<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	ug/l									<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016
Indeno(1,2,3-cd)pyrene	ug/l									<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	ug/l		•							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	ug/l		•							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	ug/l		•							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	ug/l		-							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	ug/l		-							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	ug/l									<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	ug/l		•							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAHs (USEPA 16)	ug/l															

Monitoring Round / Location	
Date Sampled	
	Units
Phenols	
2-Chlorophenol	ug/l
2 - Methyl-4,6-Dinitrophenol	ug/l
2-Methylphenol	ug/l
2-Nitrophenol	ug/l
2,4-Dichlorophenol	ug/l
2,4-Dimethylphenol	ug/l
2,4,5-Trichlorophenol	ug/l
2,4,6-Trichlorophenol	ug/l
4-Chloro-3-methylphenol	ug/l
4-Methylphenol	ug/l
Pentachlorophenol	ug/l
Phenol	ug/l
Phenols	mg/l
Phenol Index	mg/l
PAHs	
2-Chloronaphthalene	ug/l
2-Methylnaphthalene	ug/l
Acenaphthene	ug/l
Acenaphthylene	ug/l
Anthracene	ug/l
Benzo(a)anthracene	ug/l
Benzo(a)pyrene	ug/l
Benzo(b)fluoranthene	ug/l
Benzo(k)fluoranthene	ug/l
Benzo(ghi)perylene	ug/l
Indeno(1,2,3-cd)pyrene	ug/l
Chrysene	ug/l
Dibenzo(a,h)anthracene	ug/l
Fluoranthene	ug/l
Fluorene	ug/l
Naphthalene	ug/l
Phenanthrene	ug/l
Pyrene	ug/l
Total PAHs (USEPA 16)	ug/l

Screening Values and Assessment

EQS	Environmental Quality Standards
	Exceeds EQS
100	Exceeds DWS
<10	Laboratory detection level higher than screening criterion
BOL/ITA	Exceeds CCW

Notes

EQS calcium carbonate 100 - 150mg/l for heavy metals: chromium, copper, lead, nickel and zinc NDP - No determination possible

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Round of Maximum Concentration	No. Data Exceeding EQS	No. Data Exceeding DWS	No. Data Exceeding CCW
	•						
7	0	None > LOD	None > LOD		0		
7	0	None > LOD	None > LOD				
7	0	None > LOD	None > LOD		0		
7	0	None > LOD	None > LOD				
7	0	None > LOD	None > LOD		0		
7	0	None > LOD	None > LOD				
7	0	None > LOD	None > LOD				
7	0	None > LOD	None > LOD				
7	0	None > LOD	None > LOD		0		
7	0	None > LOD	None > LOD		0		
7	0	None > LOD	None > LOD		0		
7	0	None > LOD	None > LOD		0		
7	0	None > LOD	None > LOD		0		0
0	0	None > LOD	None > LOD				
7	0	None > LOD	None > LOD				
7	0	None > LOD	None > LOD				
10	0	None > LOD	None > LOD				
10	0	None > LOD	None > LOD				
10	0	None > LOD	None > LOD		0		
10	0	None > LOD	None > LOD				
10	0	None > LOD	None > LOD		0	0	
10	0	None > LOD	None > LOD		0	0	
10	0	None > LOD	None > LOD		0	0	
10	0	None > LOD	None > LOD		0	0	
10	0	None > LOD	None > LOD		-	0	0
10	0	None > LOD	None > LOD				
10	0	None > LOD	None > LOD				0
10	0	None > LOD	None > LOD		0		
10	0	None > LOD	None > LOD		-		
10	1	0.318	0.318	Q1 / 17.1	0		
10	0	None > LOD	None > LOD		-		
10	0	None > LOD	None > LOD				
3	0	None > LOD	None > LOD				0

Monitoring Round / Location		Scre	Screening Criteria			2 / EESW1	3 / EESW1	4 / EESW1	Q1 / 17.1	Q1 / 17.2	Q1 / 17.3	E1 / R14	E2 / R14	E3 / R14	E4 / R14	E1 / R15
Date Sampled	1				03/03/2004	15/06/2004	20/09/2004	06/05/2005	03/06/2015	03/06/2015	03/06/2015	11/12/2007	17/03/2008	23/06/2008	24/09/2008	11/12/2007
	Units	EQS	DWS	ccw												
VOCs		,														
1,1,1,2-Tetrachloroethane	ug/l															
1,1,1-Trichloroethane	ug/l	100														
1,1,2-Trichloroethane	ug/l	400														
1,1-Dichloroethane	ug/l															
1,1-Dichloroethene	ug/l															
1,1-Dichloropropene	ug/l															
1,2,3-Trichlorobenzene	ug/l	0.4														
1,2,3-Trichloropropane	ug/l															1
1,2,4-Trichlorobenzene	ug/l	0.4														1
1,2,4-Trimethylbenzene	ug/l															
1,2-Dibromo-3-Chloropropane	ug/l				i					1	1			1		
1,2-Dibromoethane	ug/l															
1,2-Dichlorobenzene	ug/l	20														
1,2-Dichloroethane	ug/l	10	3													
1,2-Dichloropropane	ug/l	10	,													+
1,3,5-Trimethylbenzene	ug/l															
1,3-Dichloropropane	ug/l															
1,4-Dichlorobenzene	ug/l	20														
2-Chlorotoluene	ug/l	20														
4-Chlorotoluene	ug/I ug/I															-
4-Isopropyltoluene	ug/l															
4-isopropyitoidene Benzene	ug/I ug/I	10	1						<7	<7	<7					+
Bromobenzene		10	1						· · · · · · · · · · · · · · · · · · ·	\ /	\ /					-
	ug/l		100													+
Bromochloromethane	ug/l		100													+
Bromodichloromethane	ug/l															
Bromomethane	ug/l															
Chlorobenzene	ug/l															ļ
Chloroethane	ug/l															ļ
Chloroethene	ug/l	2.5	100							ļ	ļ			-		
Chloroform	ug/l	2.5	100							ļ	ļ			-		
Chloromethane	ug/l															
cis-1,2-Dichloroethene	ug/l															
cis-1,3-Dichloropropene	ug/l		400													
Dibromochloromethane	ug/l		100													
Dibromomethane	ug/l															
Dichlorodifluoromethane	ug/l															
Ethylbenzene	ug/l	20														
Hexachlorobutadiene (HCBD)	ug/l	0.6								ļ	ļ					ļ
Isopropylbenzene	ug/l															_
m,p xylenes	ug/l	30														ļ
Methyl tert-butyl ether (MTBE)	ug/l															ļ
n-Butylbenzene	ug/l															1
n-propylbenzene	ug/l															ļ
O-Xylene	ug/l	30														
Sec-Butylbenzene	ug/l															

							•		•						•	
Monitoring Round / Location		E2 / R15	E3 / R15	E4 / R15	E1 / R16	E2 R/16	E3 / R16	E4 / R16	1 / SW506	2 / SW506	3 / SW506	1 /SW507	2 / SW507	3 / SW507	1 / SW508	3 / SW508
Date Sampled		17/03/2008	23/06/2008	24/09/2008	11/12/2007	17/03/2008	23/06/2008	24/09/2008	01/04/2015	15/04/2015	22/04/2015	01/04/2015	15/04/2015	22/04/2015	01/04/2015	22/04/2015
	Units															
VOCs																
1,1,1,2-Tetrachloroethane	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/l								<10	<10	<10	<10	<10	<10	<10	<10
1,1-Dichloroethane	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	ug/l								<2	<2	<2	<2	<2	<2	<2	<2
1,2,3-Trichloropropane	ug/l								<50	<50	<50	<50	<50	<50	<50	<50
1,2,4-Trichlorobenzene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-Chloropropane	ug/l								<50	<50	<50	<50	<50	<50	<50	<50
1,2-Dibromoethane	ug/l								<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichlorobenzene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/l								<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloropropane	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	ug/l								<2	<2	<2	<2	<2	<2	<2	<2
1,4-Dichlorobenzene	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-Chlorotoluene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
4-Isopropyltoluene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
Benzene	ug/l								<7	<7	<7	<7	<7	<7	<7	<7
Bromobenzene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	ug/l								<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	ug/l								<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	ug/l								<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/l								<2	<2	<2	<2	<2	<2	<2	<2
Chloroethene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/l								<10	<10	<10	<10	<10	<10	<10	<10
Dibromochloromethane	ug/l								<10	<10	<10	<10	<10	<10	<10	<10
Dibromomethane	ug/l								<10	<10	<10	<10	<10	<10	<10	<10
Dichlorodifluoromethane	ug/l			1					<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/l								<5	<5	<5	<5	<5	<5	<5	<5
Hexachlorobutadiene (HCBD)	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	ug/l			1					<1	<1	<1	<1	<1	<1	<1	<1
m,p xylenes	ug/l			ļ					<8	<8	<8	<8	<8	<8	<8	<8
Methyl tert-butyl ether (MTBE)	ug/l			1					<3	<3	<3	<3	<3	<3	<3	<3
n-Butylbenzene	ug/l			1					<1	<1	<1	<1	<1	<1	<1	<1
n-propylbenzene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
O-Xylene	ug/l								<3	<3	<3	<3	<3	<3	<3	<3
Sec-Butylbenzene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1

Units		
Units	Monitoring Round / Location	
VOCS 1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Dichloroethane 1,1,1-Dichloroethane 1,1-Dichloropethene 1,1-Dichloroperopene 1,2,3-Trichloroperopene 1,2,3-Trichloroperopane 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dichloroperopane 1,2-Dichloroperopane 1,2-Dichloroperopane 1,2-Dichloroperopane 1,2-Dichloroperopane 1,2-Dichloroperopane 1,2-Dichloroperopane 1,2-Dichloroperopane 1,2-Dichloroperopane 1,2-Dichloroperopane 1,2-Dichloroperopane 1,2-Dichloropropane 1,2-Dichloropropane 1,3-Trimethylbenzene 1,3-Dichloropropane 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenz	Date Sampled	
1,1,1,2-Tetrachloroethane ug/I 1,1,1-Trichloroethane ug/I 1,1-Dichloroethane ug/I 1,1-Dichloroethane ug/I 1,1-Dichloroethane ug/I 1,1-Dichloroethane ug/I 1,1-Dichloroethane ug/I 1,1-Dichloropropene ug/I 1,2-3-Trichlorobenzene ug/I 1,2,3-Trichlorobenzene ug/I 1,2,4-Trimethylbenzene ug/I 1,2-Dibromo-3-Chloropropane ug/I 1,2-Dibromo-3-Chloropropane ug/I 1,2-Dichlorobenzene ug/I 1,2-Dichloropenane ug/I 1,2-Dichloropenane ug/I 1,2-Dichloropenane ug/I 1,3-Dichloropropane ug/I 1,3-Dichloropropane ug/I 1,3-Dichloropropane ug/I 1,3-Dichloropropane ug/I 1,3-Dichloropropane ug/I 1,3-Dichloropropane ug/I 1,4-Dichlorobenzene ug/I 2-Chlorotoluene ug/I 2-Chlorotoluene ug/I 2-Chlorotoluene ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochloromethane ug/I 3-Fromochlorometha		Units
1,1,1-Trichloroethane	VOCs	
1,1,2-Trichloroethane 1,1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloropropene 1,1,2-Trichloropropene 1,2,3-Trichloropropane 1,2,3-Trichlorobenzene 1,2,4-Trinethylbenzene 1,2,4-Trimethylbenzene 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 1,2-Dichloropropane 1,2-Dichloropropane 1,2-Dichloropropane 1,2-Dichloropropane 1,2-Dichloropropane 1,2-Dichloropropane 1,2-Dichloropropane 1,3-S-Trimethylbenzene 1,3-S-Trimethylbenzene 1,3-S-Trimethylbenzene 1,3-Dichloropropane 1,4-Dichloropropane 1,4-Dichloropropane 1,4-Dichloropropane 1,4-Dichloropropane 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichloropropane 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,		
1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,3-Trichloropene 1,2,3-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Pibromo-3-Chloropropane 1,2-Dibromoethane 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichloropropane 1,4-Dichloropropane 1,4-Dichloropropane 1,4-Dichloropropane 1,4-Dichloropropane 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 2-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluen		
1,1-Dichloroethene 1,1-Dichloropropene 1,1-Dichloropropene 1,2-3-Trichlorobenzene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2-1-Dichloropropane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 1,3-5-Trimethylbenzene 1,3-5-Trimethylbenzene 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorotoluene 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3	, ,	
1,1-Dichloropropene	,	
1,2,3-Trichlorobenzene ug/l 1,2,3-Trichloropropane ug/l 1,2,4-Trichlorobenzene ug/l 1,2,4-Trichlorobenzene ug/l 1,2-Dibromo-3-Chloropropane ug/l 1,2-Dibromoethane ug/l 1,2-Dichloroethane ug/l 1,2-Dichloropropane ug/l 1,2-Dichloropropane ug/l 1,3-Trimethylbenzene ug/l 1,3-Trimethylbenzene ug/l 1,3-Trimethylbenzene ug/l 4-Dichloropropane ug/l 4-Lorotoluene ug/l 4-Chlorotoluene ug/l 4-Isopropyltoluene ug/l Benzene ug/l Bromobenzene ug/l Bromodichoromethane ug/l Bromodichoromethane ug/l Chlorotehane ug/l Chlorotehane ug/l Chlorotehane ug/l Chlorotehane ug/l Chloromethane ug/l Chloromethane ug/l Dibromomethane ug/l <		
1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromo-3-Chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichloropropane 1,2-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,4-Dichlorobenzene 2-Chlorotoluene 1-1,3-Dichloropropane 1,4-Dichloropropane 1,4-Dichloropropane 1,4-Dichloropropane 1,4-Dichloropropane 1,4-Dichloropropane 1,4-Dichlorobenzene 2-Chlorotoluene 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropropane 1-1,3-Dichloropro		
1,2,4-Trichlorobenzene ug/l 1,2,4-Trimethylbenzene ug/l 1,2-Dibromo-3-Chloropropane ug/l 1,2-Dibromo-3-Chloropropane ug/l 1,2-Dichlorobenzene ug/l 1,2-Dichloroptane ug/l 1,2-Dichloropropane ug/l 1,3-Dichloropropane ug/l 1,3-Dichloropropane ug/l 1,4-Dichlorobenzene ug/l 2-Chlorotoluene ug/l 4-Chlorotoluene ug/l 4-Sopropyltoluene ug/l Benzene ug/l Bromobenzene ug/l Bromodichloromethane ug/l Bromodichloromethane ug/l Chlorobethane ug/l Chloroethane ug/l Chloroethane ug/l Chloroform ug/l Cis-1,2-Dichloroethene ug/l cis-1,3-Dichloropropene ug/l Dibromomethane ug/l Dibromomethane ug/l Dibromomethane ug/l Us/loropathane ug/l <td></td> <td></td>		
1,2,4-Trimethylbenzene ug/l 1,2-Dibromo-3-Chloropropane ug/l 1,2-Dibromo-3-Chloropropane ug/l 1,2-Dichlorobenzene ug/l 1,2-Dichloropropane ug/l 1,2-Dichloropropane ug/l 1,3-Trimethylbenzene ug/l 1,3-Trimethylbenzene ug/l 1,3-Trimethylbenzene ug/l 1,3-Dichloropropane ug/l 4-Dichlorobenzene ug/l 2-Chlorotoluene ug/l 4-Stopropyltoluene ug/l Benzene ug/l Bromochloromethane ug/l Bromochloromethane ug/l Bromodichloromethane ug/l Chlorobenzene ug/l Chlorobenzene ug/l Chlorobenzene ug/l Chloroform ug/l Chloromethane ug/l cis-1,2-Dichloroethene ug/l cis-1,3-Dichloropropene ug/l Dibromomchloromethane ug/l Dibromomchloromethane ug/l Ethylbenzene <td></td> <td></td>		
1,2-Dibromo-3-Chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropane 1,2-Dichloropane 1,3-S-Trimethylbenzene 1,3-Dichloropropane 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorotoluene 1,4-Chlorotoluene 1,4-Chlorotoluene 1,4-Spropyltoluene 1,2-Dichloropane 1,2-Dichloropane 1,2-Dichloropenzene 1,2-Dichlorotoluene 1,2-Dichlorotoluene 1,2-Dichlorotoluene 1,2-Dichlorotoluene 1,2-Dichlorotoluene 1,2-Dichlorotoluene 1,2-Dichlorotoluene 1,2-Dichlorotoluene 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroetha	, ,	
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n-propylbenzene ug/l O-Xylene ug/l	Methyl tert-butyl ether (MTBE)	ug/l
O-Xylene ug/l	n-Butylbenzene	
,	n-propylbenzene	
Sec-Butylbenzene ug/l	O-Xylene	
	Sec-Butylbenzene	ug/l

Screening Values and Assessment

EQS	Environmental Quality Standards
	Exceeds EQS
100	Exceeds DWS
<10	Laboratory detection level higher than screening criterion
BOL/ITA	Exceeds CCW

Notes

EQS calcium carbonate 100 - 150mg/l for heavy metals: chromium, copper, lead, nickel and zinc NDP - No determination possible

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Round of Maximum Concentration	No. Data Exceeding EQS	No. Data Exceeding DWS	No. Data Exceeding CCW
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD		0	0	
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
11	0	None > LOD	None > LOD		0	0	
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD			0	
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD		0	0	
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD			0	
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD				

Monitoring Round / Location		Scre	eening Crite	ria	1 / EESW1	2 / EESW1	3 / EESW1	4 / EESW1	Q1 / 17.1	Q1 / 17.2	Q1 / 17.3	E1 / R14	E2 / R14	E3 / R14	E4 / R14	E1 / R15
Date Sampled					03/03/2004	15/06/2004	20/09/2004	06/05/2005	03/06/2015	03/06/2015	03/06/2015	11/12/2007	17/03/2008	23/06/2008	24/09/2008	11/12/2007
	Units	EQS	DWS	ccw												
Styrene	ug/l	50														
Tert-Butylbenzene	ug/l															
Tetrachloroethene	ug/l	10	10													
Tetrachloromethane (Carbon Tetra Chloride)	ug/l	12	3													
Toluene	ug/l	50														
trans-1,2-Dichloroethene	ug/l															
trans-1,3-Dichloropropene	ug/l															
Tribromomethane	ug/l		100													
Trichloroethene	ug/l	10	10		•											
Trichlorofluoromethane	ug/l															

Monitoring Round / Location		E2 / R15	E3 / R15	E4 / R15	E1 / R16	E2 R/16	E3 / R16	E4 / R16	1 / SW506	2 / SW506	3 / SW506	1 /SW507	2 / SW507	3 / SW507	1 / SW508	3 / SW508
Date Sampled		17/03/2008	23/06/2008	24/09/2008	11/12/2007	17/03/2008	23/06/2008	24/09/2008	01/04/2015	15/04/2015	22/04/2015	01/04/2015	15/04/2015	22/04/2015	01/04/2015	22/04/2015
	Units															
Styrene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
Tert-Butylbenzene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloromethane (Carbon Tetra Chloride)	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/l								<4	<4	<4	<4	<4	<4	<4	<4
trans-1,2-Dichloroethene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/l								<10	<10	<10	<10	<10	<10	<10	<10
Tribromomethane	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/l								<1	<1	<1	<1	<1	<1	<1	<1

Monitoring Round / Location	
Date Sampled	
	Units
Styrene	ug/l
Tert-Butylbenzene	ug/l
Tetrachloroethene	ug/l
Tetrachloromethane (Carbon Tetra Chloride)	ug/l
Toluene	ug/l
trans-1,2-Dichloroethene	ug/l
trans-1,3-Dichloropropene	ug/l
Tribromomethane	ug/l
Trichloroethene	ug/l
Trichlorofluoromethane	ug/l

Screening Values and Assessment

EQS	Environmental Quality Standards
	Exceeds EQS
100	Exceeds DWS
<10	Laboratory detection level higher than screening criterion
BOL/ITA	Exceeds CCW

Notes

EQS calcium carbonate 100 - 150mg/l for heavy metals: chromium, copper, lead, nickel and zinc NDP - No determination possible

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Round of Maximum Concentration	No. Data Exceeding EQS	No. Data Exceeding DWS	No. Data Exceeding CCW
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD		0	0	
8	0	None > LOD	None > LOD		0	0	
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD			0	
8	0	None > LOD	None > LOD		0	0	
8	0	None > LOD	None > LOD				

Monitoring Round / Location		Scre	eening Crite	ria	1 / EESW1	2 / EESW1	3 / EESW1	4 / EESW1	Q1 / 17.1	Q1 / 17.2	Q1 / 17.3	E1 / R14	E2 / R14	E3 / R14	E4 / R14	E1 / R15
Date Sampled	1 1				03/03/2004	15/06/2004	20/09/2004	06/05/2005	03/06/2015	03/06/2015	03/06/2015	11/12/2007	17/03/2008	23/06/2008	24/09/2008	11/12/2007
	Units	EQS	DWS	ccw												
Phthalates																
Bis(2-ethylhexyl) phthalate	ug/l	1.3														
Butylbenzyl phthalate	ug/l	20														
Di-n-butyl phthalate	ug/l	8														
Di-n-Octyl phthalate	ug/l	20														
Diethyl phthalate	ug/l	200														
Dimethyl phthalate	ug/l	800														
Other Semi-Volatiles																
1,2-Dichlorobenzene	ug/l	20											, and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second			
1,2,4-Trichlorobenzene	ug/l	0.4														
1,3-Dichlorobenzene	ug/l	20														
1,4-Dichlorobenzene	ug/l	20														
2-Nitroaniline	ug/l															
2,4-Dinitrotoluene	ug/l															
2,6-Dinitrotoluene	ug/l															
2-Methylnaphthalene	ug/l															
3-Nitroaniline	ug/l															
4-Bromophenylphenylether	ug/l															
4-Chloroaniline	ug/l															
4-Chlorophenylphenylether	ug/l															
4-Nitroaniline	ug/l															
Azobenzene	ug/l															
Bis(2-chloroethoxy)methane	ug/l															
Bis(2-chloroethyl)ether	ug/l															
Bis(2-chloroisopropyl)ether	ug/l															
Carbazole	ug/l															
Dibenzofuran	ug/l															
Hexachlorobenzene	ug/l	0.05														
Hexachlorobutadiene	ug/l	0.6														
Hexachlorocyclopentadiene	ug/l															
Hexachloroethane	ug/l															
Isophorone	ug/l															
Nitrobenzene	ug/l				<u> </u>				L	L	L					
PCBs					1		, ,		,	T	ī					
Pcb-101 2,2',4,5,5' - Pentachlorobiphenyl	ug/l															ــــا
Pcb-118 2,3',4,4',5 - Pentachlorobiphenyl																
Pcb-138 2,2',3,4,4',5' - Hexachlorobiphenyl	ug/l															
Pcb-153 2,2',4,4',5,5' - Hexachlorobiphenyl	igsquare															
Pcb-180 2,2',3,4,4',5,5' - Heptachlorobiphenyl	ug/l															
Pcb-28 2,4,4' - Trichlororbiphenyl	ug/l															ــــا
Pcb-52 2,2',5,5' - Tetrachlorobiphenyl	ug/l									l						1

Monitoring Round / Location		E2 / R15	E3 / R15	E4 / R15	E1 / R16	E2 R/16	E3 / R16	E4 / R16	1 / SW506	2 / SW506	3 / SW506	1 /SW507	2 / SW507	3 / SW507	1 / SW508	3 / SW508
		•			11/12/2007			•						•	01/04/2015	22/04/2015
Date Sampled		17/03/2008	23/06/2008	24/09/2008	11/12/2007	17/03/2008	23/06/2008	24/09/2008	01/04/2015	15/04/2015	22/04/2015	01/04/2015	15/04/2015	22/04/2015	01/04/2015	22/04/2015
	Units															
Phthalates																
Bis(2-ethylhexyl) phthalate	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Butylbenzyl phthalate	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Di-n-butyl phthalate	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Di-n-Octyl phthalate	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diethyl phthalate	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethyl phthalate	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Other Semi-Volatiles																
1,2-Dichlorobenzene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	ug/l								<1	<1	<1	<1	<1	<1	<1	<1
2-Nitroaniline	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dinitrotoluene	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-Methylnaphthalene	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3-Nitroaniline	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-Bromophenylphenylether	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-Chloroaniline	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-Chlorophenylphenylether	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-Nitroaniline	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Azobenzene	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroisopropyl)ether	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Carbazole	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenzofuran	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	ug/l								<0	<1	<1	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloroethane	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Isophorone	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrobenzene	ug/l								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PCBs																
Pcb-101 2,2',4,5,5' - Pentachlorobiphenyl	ug/l								<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pcb-118 2,3',4,4',5 - Pentachlorobiphenyl									<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pcb-138 2,2',3,4,4',5' - Hexachlorobiphenyl	ug/l								<0.01	< 0.01	<0.01	< 0.01	<0.01	<0.01	< 0.01	<0.01
Pcb-153 2,2',4,4',5,5' - Hexachlorobiphenyl									<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pcb-180 2,2',3,4,4',5,5' - Heptachlorobiphenyl	ug/l								<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pcb-28 2,4,4' - Trichlororbiphenyl	ug/l								<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pcb-52 2,2',5,5' - Tetrachlorobiphenyl	ug/l								< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Monitoring Round / Location	
Date Sampled	
	Units
Phthalates	
Bis(2-ethylhexyl) phthalate	ug/l
Butylbenzyl phthalate	ug/l
Di-n-butyl phthalate	ug/l
Di-n-Octyl phthalate	ug/l
Diethyl phthalate	ug/l
Dimethyl phthalate	ug/l
Other Semi-Volatiles	
1,2-Dichlorobenzene	ug/l
1,2,4-Trichlorobenzene	ug/l
1,3-Dichlorobenzene	ug/l
1,4-Dichlorobenzene	ug/l
2-Nitroaniline	ug/l
2,4-Dinitrotoluene	ug/l
2,6-Dinitrotoluene	ug/l
2-Methylnaphthalene	ug/l
3-Nitroaniline	ug/l
4-Bromophenylphenylether	ug/l
4-Chloroaniline	ug/l
4-Chlorophenylphenylether	ug/l
4-Nitroaniline	ug/l
Azobenzene	ug/l
Bis(2-chloroethoxy)methane	ug/l
Bis(2-chloroethyl)ether	ug/l
Bis(2-chloroisopropyl)ether	ug/l
Carbazole	ug/l
Dibenzofuran	ug/l
Hexachlorobenzene	ug/l
Hexachlorobutadiene	ug/l
Hexachlorocyclopentadiene	ug/l
Hexachloroethane	ug/l
Isophorone	ug/l
Nitrobenzene	ug/l
PCBs	
Pcb-101 2,2',4,5,5' - Pentachlorobiphenyl	ug/l
Pcb-118 2,3',4,4',5 - Pentachlorobiphenyl	
Pcb-138 2,2',3,4,4',5' - Hexachlorobiphenyl	ug/l
Pcb-153 2,2',4,4',5,5' - Hexachlorobiphenyl	
Pcb-180 2,2',3,4,4',5,5' - Heptachlorobiphenyl	ug/l
Pcb-28 2,4,4' - Trichlororbiphenyl	ug/l
Pcb-52 2,2',5,5' - Tetrachlorobiphenyl	ug/l

Screening Values and Assessment

EQS	Environmental Quality Standards
	Exceeds EQS
100	Exceeds DWS
<10	Laboratory detection level higher than screening criterion
BOL/ITA	Exceeds CCW

Notes

EQS calcium carbonate 100 - 150mg/l for heavy metals: chromium, copper, lead, nickel and zinc NDP - No determination possible

No. Analyses	No. Analyses	Maximum	Minimum	Location & Round of Maximum	No. Data	No. Data	No. Data
No. Analyses	Above LOD	IVIGAIIIIGIII	William	Concentration	Exceeding EQS	Exceeding DWS	Exceeding CCW
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD		0		
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				
8	0	None > LOD	None > LOD				

A6 Appendix 6

Soil Leachate Laboratory Data

M4CAN Leachate Samples Analysis & Screening Assessment CL-27 01/07/2015

Geological	Formation legend
MG	Made Ground
TFD	Tidal Flat Deposits

01/07/2015															
Sample Reference Location Type		Screenin	g Criteria	CH51 TP	CH53A TP	SBHK02 CP BH	SBHK03 CP BH	STPK01	STPK02	BH526 BH	BH527 BH	TP510	SBHK02 CP	SBHK04 CP BH	BH530 BH
Specimen Depth OD Level	II-ia-			0 5.73	0.4 5.13	1 4.53	1 4.83	0.34 5.24	0.3 5.74	0.4 - 0.5 5.95	0.5 - 1.0 5.55	1.0 - 1.2 4.9	3 2.53	0.3 5.25	0.8 - 1.0 5.45
Sample Type Geology Code	Units	EQS	DWS	D MG	D MG	ES MG	ES MG	ES MG	ES MG	ES MG	ES MG	ES MG	ES TFD	ES TFD	ES TFD
Cluster Code				2000 GI	2000 GI	2007 GI	2007 GI	2007 GI	2007 GI	2015 GI	2015 GI	2015 GI	2007 GI	2007 GI	2015 GI
2:1 Leachate Results Arsenic Dissolved	ug/l	50	10			<1	13	<1	2	12	<1	27	7	<1	<1
Boron Dissolved Barium Dissolved	ug/l ug/l	2000	1000			30 200	1200 67	<10 580	<10 13	59	<20	<20	70 16	80 280	43
Cadmium Dissolved Chromium Dissolved	ug/l ug/l	0.15	5 50			<0.4 <1	<0.4 <1	<0.4 3	<0.4 <1	<0.08 <1	<0.08 <1	<0.08 2.8	<0.4 <1	<0.4 4	<0.08 12
Copper Dissolved Iron Dissolved	ug/l ug/l	10 1000	2000	<10	<10	7	<1	13	3	14	2.9	<1	<1	<1	<1
Molybdenum Dissolved Nickel Dissolved	ug/l ug/l	4	20			<1 4	82 6	<1 9	3 5	16	2	<1	4	6 20	<1
Lead Dissolved Mercury Dissolved	ug/l ug/l	1.2 0.07	10			1500	14	4	3	<1 <5	<1 <5	<1 <5	<1	14	<1 <5
Antimony Dissolved Selenium Dissolved	ug/l ug/l		5 10			<5 <1	5	<5 <1	<5 3	3.1	<1	5.1	<5 5	<5 <1	1.1
Zinc Dissolved Total Cyanide	ug/l mg/l	75 0.001	0.05			14 <0.05	<3 <0.05	<3 <0.05	8 <0.05	<0.05	1.5 <0.05	<0.05	<3 <0.05	<3 <0.05	<0.05
Cyanide Free Total Diss Sulphur	mg/l mg/l	6-9	6.5-10	28	13.9					<0.05	<0.05	<0.05			<0.05
Phenols	pH units		6.5-10	10.9	11.8										
Phenols BTEX	mg/l	0.0077		<u> </u>						<0.03	<0.03	<0.03			<0.03
Toluene	ug/l ug/l	10 50	1							<1	<1	<1			<1
Ethylbenzene m,p xylenes	ug/l ug/l	20 30								<1 <1	<1	<1			<1 <1
O-Xylene TPH	ug/I	30								<1	<1	<1			<1
Aliphatics >C5-C6 Aliphatics >C6-C8	ug/l ug/l									<0.1 <0.1	<0.1 <0.1	<0.1 <0.1			<0.1 <0.1
Aliphatics >C8-C10 Aliphatics >C10-C12	ug/l ug/l									<0.1 <0.1	<0.1 <0.1	<0.1 <0.1			<0.1 <0.1
Aliphatics >C12-C16 Aliphatics >C16-C21	ug/l ug/l									<0.1 <0.1	<0.1 <0.1	<0.1 <0.1			<0.1 <0.1
Aliphatics >C21-C35 Aliphatics >C35-44	ug/l ug/l									<0.1	<0.1	<0.1			<0.1
Aromatics > C5-C7 Aromatics > C7-C8	ug/l ug/l									<0.1	<0.1	<0.1			<0.1
Aromatics > C8-C10 Aromatics > C10-C12 Aromatics > C12-C16	ug/l ug/l									<0.1 <0.1	<0.1 <0.1	<0.1 <0.1			<0.1 <0.1
Aromatics >C12-C16 Aromatics >C16-C21	ug/l ug/l									<0.1	<0.1	<0.1			<0.1 <0.1
Aromatics >C21-C35 Aromatics >C35-44 Total Aliabatic TPH	ug/l ug/l									<0.1 <0.1	<0.1 <0.1	<0.1 <0.1			<0.1 <0.1
Total Aliphatic TPH Total Aromatic TPH Total patrology by drossybons	ug/l ug/l									<5 <5	<5 <5	<5 <5			<5 <5
Total petroleum hydrocarbons PAH	ug/l	I								<10	<10	<10			<10
Acenaphthene Acenaphthylene	ug/l ug/l									<0.1	<0.1	<0.1			<0.1 <0.1
Anthracene Benz(a)anthracene	ug/l	0.1	0.0.							<0.1	<0.1	<0.1			<0.1
Benzo(a)pyrene Benzo(b)fluoranthene	ug/l ug/l	0.00017	0.01							<0.1	<0.1	<0.1			<0.1
Benzo(ghi)perylene Benzo(k)fluoranthene	ug/l ug/l	0.0082 0.017	0.1							<0.1	<0.1	<0.1			<0.1 <0.1
Chrysene Dibenzo(ah)anthracene	ug/l ug/l	0.0								<0.1	<0.1	<0.1			<0.1
Fluoranthene Fluorene	ug/l ug/l	0.0063	0.4							<0.1	<0.1	<0.1			<0.1
Indeno(123cd)pyrene Naphthalene	ug/l ug/l	N/A 2	0.1							<0.1	<0.1	<0.1			<0.1
Phenanthrene Pyrene	ug/l ug/l									<0.1	<0.1	<0.1			<0.1
PAH 16 Total PCB	ug/I									<2	<2	<2			<2
Pcb-101 2,2',4,5,5' - Pentachlorobipl Pcb-118 2,3',4,4',5 - Pentachlorobipl	ug/l ug/l														<0.01 <0.01
Pcb-138 2,2',3,4,4',5' - Hexachlorobi Pcb-153 2,2',4,4',5,5' - Hexachlorobi	ug/l ug/l														<0.01 <0.01
Pcb-180 2,2',3,4,4',5,5' - Heptachlon Pcb-28 2,4,4' - Trichlororbiphenyl	ug/l ug/l														<0.01 <0.01
Pcb-52 2,2',5,5' - Tetrachlorobiphen VOCs	ug/I														<0.01
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane	ug/l ug/l	100													<2 <1
1,1,2-Trichloroethane 1,1-Dichloroethane	ug/l ug/l	400													<10 <1
1,1-Dichloroethene 1,1-Dichloropropene	ug/l ug/l														<1 <1
1,2,3-Trichlorobenzene 1,2,3-Trichloropropane	ug/l ug/l	0.4													<2 <50
1,2,4-Trimethylbenzene 1,2-Dibromo-3-Chloropropane	ug/l ug/l														<1 <50
1,2-Dichlorobenzene 1,2-Dichloroethane	ug/l ug/l	20 10	3												<1 <2
1,2-Dichloropropane 1,3,5-Trimethylbenzene	ug/l ug/l														<1
1,3-Dichlorobenzene 1,3-Dichloropropane	ug/l ug/l	20													<1 <2
1,4-Dichlorobenzene 2-Chlorotoluene	ug/l ug/l	20													<1 <1 <1
4-Chlorotoluene 4-Isopropyltoluene	ug/l ug/l														<1
Bromobenzene Bromochloromethane Bromodichloromethane	ug/l ug/l		100												<5 <5
Bromomethane Chlorobenzene	ug/l ug/l ug/l														<5 <1
Chloroethane	ug/l														<2
Chloroethene Chloroform Chloromethane	ug/l ug/l	2.5	100												<1 <1 <1
cis-1,2-Dichloroethene cis-1,3-Dichloropropene	ug/l ug/l ug/l														<1 <1 <10
Dibromochloromethane Dibromomethane	ug/l ug/l		100												<10 <10 <10
Dichlorodifluoromethane Isopropylbenzene	ug/l ug/l ug/l														<10 <1 <1
Methyl tert-butyl ether (MTBE) n-Butylbenzene	ug/l ug/l														<1
n-propylbenzene Sec-Butylbenzene	ug/I ug/I														<1
Styrene Tert-Butylbenzene	ug/l ug/l	50													<1
Tetrachloroethene Tetrachloromethane (Carbon Tetra (ug/l ug/l	10 12	10												<1
trans-1,2-Dichloroethene trans-1,3-Dichloropropene	ug/l ug/l														<1 <10
Tribromomethane Trichloroethene	ug/I ug/I	10	100 10												<1
Trichlorofluoromethane SVOCs	ug/l														<1
1,2,4-Trichlorobenzene 2,4,5-Trichlorophenol	ug/l ug/l	0.4													<0.5 <0.5
2,4,6-Trichlorophenol 2,4-Dichlorophenol	ug/l ug/l	20													<0.5 <0.5
2,4-Dinethylphenol 2,4-Dinitrotoluene	ug/l ug/l	-													<0.5 <0.5
2,6-Dinitrotoluene 2-Chloronaphthalene	ug/l ug/l														<0.5 <0.5
2-Chlorophenol 2-Methyl-4,6-Dinitrophenol	ug/l ug/l	50													<0.5 <0.5
2-Methylnaphthalene 2-Methylphenol	ug/l ug/l	100													<0.5 <0.5
2-Nitroaniline 2-Nitrophenol	ug/l ug/l														<0.5 <0.5
3-Nitroaniline 4-Bromophenyl Phenyl Ether	ug/l ug/l														<0.5 <0.5
4-Chloro-3-Methylphenol 4-Chloroaniline	ug/l ug/l	40													<0.5 <0.5
4-Chlorophenyl Phenyl Ether 4-Methylphenol	ug/l ug/l	100													<0.5 <0.5
4-Nitroaniline Azobenzene	ug/l ug/l														<0.5 <0.5
Bis(2-chloroethoxy)methane Bis(2-chloroethyl)ether	ug/l ug/l														<0.5 <0.5
Bis(2-chloroisopropyl)ether Bis(2-ethylhexyl)phthalate	ug/l ug/l	1.3													<0.5 <0.5
Butylbenzylphthalate Carbazole	ug/l ug/l	20													<0.5 <0.5
Dibenzofuran Diethylphthalate	ug/l ug/l	200													<0.5 <0.5
Dimethylphthalate Di-N-Butyl Phthalate	ug/l ug/l	800 8													<0.5 <0.5
Di-N-Octyl Phthalate Hexachlorobenzene (HCB)	ug/l ug/l	20 0.05													<0.5 <0.5
Hexachlorobutadiene (HCBD) Hexachlorocyclopentadiene	ug/l ug/l	0.6													<0.5 <0.5
Hexachloroethane Isophorone	ug/l ug/l														<0.5 <0.5
Nitrobenzene n-nitrosodimethylamine	ug/l ug/l														<0.5 <0.5
N-Nitroso-Di-N-Propylamine Pentachlorophenol (PCP)	ug/l ug/l	0.4													<0.5 <0.5
Phenol	ug/l	7.7													<0.5

Screening Values & Assessment

EQS Environmental Quality Standards
Drinking Water Standard

Exceeds EQS
X Exceeds EQS
X Laboratory detection level higher than screening criterion

Notes

EQS calcium carbonate 100 - 150mg/l for heavy metals: chromium, copper, lead, nickel and zinc

EQS calcium ca		Omg/I for heav	y metals: chro	omium, copper, lead, nickel and		
No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	No. Data Exceeding EQS	No. Data Exceeding DWS
10 10	5	27 1200	2	TP510 @ 1.0 - 1.2mbGL SBHK03 CP @ 1mbGL	0	3
6 10	6	580 None > LOD	13 None > LOD	STPK01 @ 0.34mbGL	0	0
10 10	4 5	12 14	2.8 2.9	BH530 @ 0.8 - 1.0mbGL BH526 @ 0.4 - 0.5mbGL	2	0
6	4	None > LOD 82	None > LOD	SBHK03 CP @ 1mbGL	0	0
10 10 4	5 0	20 1500 None > LOD	2 3 None > LOD	SBHK04 CP @ 0.3mbGL SBHK02 CP @ 1mbGL	5 5 0	0 3 0
6	1 6	8 5.1	8	SBHK03 CP @ 1mbGL TP510 @ 1.0 - 1.2mbGL		1 0
10 10	5	14 None > LOD	1.1 None > LOD	SBHK02 CP @ 1mbGL	0	0
4 2	0 2	None > LOD 28	None > LOD 13.9	CH51 @ 0mbGL		
2	2	11.8	10.9	CH53A @ 0.4mbGL	2	2
4	0		None > LOD		0	0
4 4	0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	0
4	0	None > LOD None > LOD	None > LOD None > LOD		0	
4	0	None > LOD				
4	0	None > LOD None > LOD	None > LOD None > LOD			
4	0	None > LOD None > LOD	None > LOD			
4 4	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			
4	0	None > LOD None > LOD	None > LOD None > LOD			
4	0	None > LOD None > LOD	None > LOD None > LOD			
4	0	None > LOD None > LOD	None > LOD None > LOD			
4	0	None > LOD None > LOD	None > LOD			
4 4 4	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			
4	0	None > LOD	None > LOD			
4	0	None > LOD None > LOD	None > LOD None > LOD		0	
4	0	None > LOD None > LOD	None > LOD		0	0
4	0	None > LOD None > LOD	None > LOD		0	0
4 4	0	None > LOD			0	0
4 4	0 0	None > LOD None > LOD None > LOD	None > LOD		0	
4	0	None > LOD None > LOD	None > LOD		0	0
4	0	None > LOD None > LOD	None > LOD None > LOD			
4	0	None > LOD				
1	0	None > LOD None > LOD	None > LOD			
1 1 1	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			
1 1	0	None > LOD None > LOD	None > LOD			
1	0	None > LOD				
1 1	0	None > LOD None > LOD	None > LOD None > LOD		0	
1	0	None > LOD	None > LOD			
1 1 1	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
1 1	0	None > LOD None > LOD	None > LOD			
1 1	0	None > LOD None > LOD			0	0
1 1	0	None > LOD None > LOD	None > LOD			
1	0	None > LOD None > LOD	None > LOD		0	
1 1 1	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD		0	
1 1	0	None > LOD None > LOD	None > LOD			
1 1	0	None > LOD None > LOD	None > LOD None > LOD			0
1	0	None > LOD None > LOD	None > LOD None > LOD			
1 1 1	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	0
1 1	0	None > LOD None > LOD	None > LOD None > LOD		Ü	Ü
1	0	None > LOD None > LOD	None > LOD None > LOD			0
1	0	None > LOD None > LOD	None > LOD None > LOD			
1 1	0	None > LOD	None > LOD			
1 1 1	0 0	None > LOD None > LOD	None > LOD None > LOD			
1 1	0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
1	0	None > LOD None > LOD	None > LOD None > LOD		0	0
1	0	None > LOD None > LOD	None > LOD None > LOD			
1 1	0	None > LOD	None > LOD		0	0
1	0	None > LOD	None > LOD			
1 1	0	None > LOD None > LOD	None > LOD		0	
1 1 1	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
1 1	0	None > LOD None > LOD	None > LOD None > LOD			
1 1	0	None > LOD None > LOD	None > LOD None > LOD		0	
1	0	None > LOD None > LOD	None > LOD None > LOD			
1 1	0	None > LOD	None > LOD		0	
1 1	0	None > LOD				
1 1 1	0 0	None > LOD None > LOD None > LOD	None > LOD		0	
1 1 1	0 0	None > LOD None > LOD None > LOD			0	
1 1	0	None > LOD None > LOD	None > LOD None > LOD			
1	0	None > LOD None > LOD	None > LOD None > LOD			
1	0		None > LOD		0	
1	0	None > LOD	None > LOD		0	
1 1	0	None > LOD	None > LOD		0	
1 1 1	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0 0 0	
1 1	0	None > LOD None > LOD	None > LOD None > LOD		0	
1 1	0	None > LOD None > LOD	None > LOD None > LOD			
1	0	None > LOD None > LOD	None > LOD None > LOD			
1	0	None > LOD None > LOD	None > LOD None > LOD			
1	0	None > LOD None > LOD			0	

A7 Appendix 7

Site Walkover Photographs



Plate 01: CL27 – Elver Pill Reen



Plate 02: CL27 - Elver Pill Reen

Client: Welsh Government

Project: M4CaN

Job Ref: JER6591 Checked By: Date: Nov 2015



Plate 03: CL27 – Elver Pill Reen



Plate 04: CL27 - Elver Pill Reen

Client: Welsh Government

Project: M4CaN

Job Ref: JER6591 Checked By: Da

Date: Nov 2015

A8 Appendix 8

Relevant Extract of Additional Environmental Data



Plate 01: Extract of 1991 Aerial Photograph



Plate 02: Extract of 1998 Aerial Photograph

Client:	Welsh Government
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Project: M4CaN

Job Ref: JER6591 Checked By:

Date: Oct 2015



Plate 03: Extract of 2006 Aerial Photograph

Plate 04:

Client: Welsh Government

Project: M4CaN

Job Ref: JER6591 Checked By: Date: Oct 2015

Welsh Government

M4 Corridor around Newport

Land Contamination Assessment Report Annex D CL-29 Spoil Heaps, Llanwern Approach Road

M4CaN-DJV-EGT-ZG_GEN-RP-EN-0020

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1 Introduction

1.1 Background

- **1.1.1** This report relates to an area of land potentially affected by contamination (CL-29) known as the 'Spoil Heaps, Llanwern Approach Road' herein referred to as the 'Site'.
- **1.1.2** The Site is located at approximate chainage 20,100 upon an existing spoil heap adjacent to the north of the railway line (see Figure 1).

1.2 Reporting Context

- 1.2.1 The Site has been assessed as part of ground investigations and monitoring associated with the wider works for the M4 Corridor around Newport (M4CaN) (hereafter referred to as the 'Scheme') and informs the baseline for the environmental impact assessment (EIA) for the Scheme. The EIA is reported in the M4CaN Environmental Statement (ES) of which this document is an appendix to the chapter on Geology and Soils.
- In 2014, a Preliminary Sources Study Report (2014 PSSR) was prepared as an initial land contamination appraisal (Ove, Arup & Partners, 2014) as part of Design Manual for Roads and Bridges (DMRB) Stage 2 Assessments for a number of potential route options. This identified a number of individual areas that may have been affected by contamination as a result of historical activities at the Site. In addition, this report draws upon the 2015 Supplementary Ground Investigation report on behalf of the Welsh Government (Geotechnical Engineering, 2015). This report relates to the area defined on the Site Location Plan Figure 1.
- 1.2.3 The overarching rationale and approach for the assessment of areas of land along the proposed new section of motorway with potential contamination is detailed in the Land Contamination Assessment Report (Appendix 11.1 of the ES).

1.3 Objectives

- **1.3.1** The key objectives of this report are set out below:
 - Undertake a risk assessment of the Site and determine whether potential risks to human health or controlled waters could exist based upon the Scheme.
 - Identify the need for further assessment and investigation in order to refine potential land contamination risks and inform the need for remediation/mitigation.
 - To provide information to support the Ground Investigation Report (GIR) and Geotechnical Design Report (GDR) required under DMRB HD22/08 (Highways Agency, 2008).

1.4 Report Structure

1.4.1 The subsequent report structure is as follows:

- Section 2: Site Location and Description.
- Section 3: The Scheme This section details the new section of motorway alignment and associated features at the Site.
- Section 4: Site History This section summarises the history of the Site based on historical maps and historical land photographs.
- Section 5: Environmental Setting This section summarises the Site description, published geology, hydrology and hydrogeology and any relevant environmental information presented in the 2014 PSSR.
- Section 6: Scope of Ground Investigation Works This section describes the previous and supplementary ground investigation data available for the Site.
- Section 7: Ground Conditions This section describes the main findings of the intrusive site investigation including the ground conditions encountered and any visual or olfactory evidence of contamination identified.
- Section 8: Contamination Assessment This section describes the findings of the Tier 1 and Tier 2 contamination risk assessment based upon potential contamination sources, potential receptors and potential contaminant linkages and presents the human health and controlled waters assessments.
- Section 9: Refined Conceptual Site Model This section presents the Conceptual Site Model (CSM) for the Site and identifies potential contaminant linkages, based upon the findings of the data presented within Sections 2 to 7.
- Section 10: Conclusions and Recommendations This section provides conclusions concerning the likelihood of land contamination associated with the Site affecting the Scheme and requirements for remediation/mitigation.

2 Site Location and Description

- 2.1.1 The Site is located in the eastern part of the new section of motorway, where the A4810 crosses the mainline railway, with a centre point at National Grid Reference ST 415 820. The Site location is shown on Figure 1.
- 2.1.2 The Site is situated within an agricultural field and is bounded to the west by the A4180 and the south by the railway cutting. Access was not possible during the 1995 or 2015 Site walkover survey. A single storey ruined building has been identified among brambles and scrub using the historical information available.
- 2.1.3 It is noted that the 2014 PSSR included a second parcel of land within the Site, south of the railway line. This comprised an old quarry. Given the new section of motorway and associated land take does not include this area and the quarry is separated from the alignment by the railway cutting and the A4810 embankment, no potential contamination linkages are considered applicable. The former quarry is no longer considered as a potential source of contamination for the purpose of the Land Contamination Assessment Report (Appendix 11.1 of the ES).
- **2.1.4** The Site will be assessed in terms of the suitability of materials to remain *in situ*.

3 The Scheme

- **3.1.1** The Site is situated at approximate chainage 20,100.
- 3.1.2 The section of highway impacting the Site is proposed to be on embankment with a carriageway approximately 10 m above existing ground level.
- **3.1.3** Given the absence of soft compressible strata, the use of piles is not being considered and instead, foundation would be taken onto the shallow rockhead.
- **3.1.4** The highway verges are to be soft landscaped, incorporating highway drainage predominantly as open swales/channels.
- **3.1.5** Subject to suitability of the materials encountered, it is currently proposed that all existing ground will be left *in situ* with the embankment constructed above.

4 Site History

- 4.1.1 The 2014 PSSR historical searches were based on Ordnance Survey (OS) plans, literature reviews, information provided by British Steel, Natural Resources Wales (NRW) (formerly Environment Agency Wales), Newport City Council and aerial photographic interpretation.
- **4.1.2** This is supplemented by a review of historical maps obtained in 2015 from the Welsh Government.
- **4.1.3** A summary of the Site's history is summarised below in Table 1.

Table 1: Site History

Date	Use	Source of Information			
1843 - 1893	Site shown as an agricultural field, bounded to the south by a <u>railway</u> (running east – west).	1:10,560 Historical Mapping			
1882	No significant change.	1882 OS Plan			
1891 - 1912	No significant change.	1:10,560 Historical Mapping			
1901	No significant change.	1901 OS plan			
1904 - 1939	No significant change.	1:10,560 Historical Mapping			
1921	No significant change.	1921 OS Plan			
1964 - 1965	The embankment of the railway has extended.	1:10,560 Historical Mapping			
1969	The A4810 is now evident.	Aerial Photography			
1969 - 1971	No significant change.	1:10,560 Historical Mapping			
1981	Evidence of a possible structure in the eastern area of the Site.	Aerial Photography			
1985 - 1991	No significant change.	Aerial Photography			
1998	The south-western area appears vegetated with bushes and trees	Aerial Photography			
2006	Storage of unknown materials / rubble in the northern area of the Site.	Aerial Photography			
2009 - 2010	A pylon is present in the north-east corner. Rough vegetation in northern area with no obvious evidence of rubble being present.	Aerial Photography			
2014	No significant change.	High Resolution Aerial Photography			
		<u> </u>			

Notes: Potential sources of contamination are <u>underlined</u>. Those within the temporary and permanent land take are shown in **bold**.

- 4.1.4 The 1995 PSSR identified a spoil heap as a potential source of contamination. The sources of information presented above supplement those used in the 2014 PSSR. In particular, the 2006 aerial photograph has identified a second heap of material and as a result, the Site boundary was revised to include the area to the north. Relevant extracts of the photographs are presented in Appendix 5.
- 4.1.5 Historically the Site is located in proximity to areas which may have been bombed during World War II which is discussed in the Explosive Ordnance Threat Assessment Report (Bactec, 2014). This categorises the site as low risk with respect to unexploded ordnance.

5 Environmental Setting

5.1 Geology

5.1.1 British Geological Survey (BGS) records indicate that the Site is underlain by Head Deposits of clay, silt, sand and gravel. These are underlain by the solid deposits of the Tintern Sandstone Formation, comprising sandstone with localised pebbles and subordinate marls.

5.2 Hydrology

5.2.1 The nearest water body is Bareland Street Reen East located 50 m south, on the other side of the A4180. This road also forms the northern boundary of the Gwent Levels Site of Specific Scientific Interest (SSSI).

5.3 Hydrogeology

- 5.3.1 NRW classifies the Tintern Sandstone Formation as a principal aquifer. The Head Deposits overlying the bedrock is classified by NRW as Unproductive Strata.
- **5.3.2** The Site does not lie within a groundwater source protection zone.

5.4 Environmental Information

5.4.1 No pollution incidents, abstraction licences, discharge points or landfills have been recorded within 300 m of the Site.

6 Scope of Investigations

6.1 General

6.1.1 No previous ground investigations are available for this Site. However a number of exploratory holes were advanced within 100 m of the Site. These have been considered in order to support an understanding of ground conditions beneath the Site and inform the groundwater quality and gas regime.

6.2 Scope of Works

6.2.1 The various off site intrusive ground investigations undertaken in the near vicinity of the Site are summarised in Table 2.

Table 2: Off Site Investigation Summary (Off Site)

Date	Contractor	Boreholes	Location from Site	Sampling
1997	Norwest Holst	ВНМ6	10 m north-east of the Site	None
2015	Geotechnical Engineering Ltd	BH539, BH540, BH541	80 m south-east, 8 m north-east and 50 m east of the Site, respectively	Groundwater

6.2.2 The well construction details of the off site boreholes are summarised below.

Table 3: Summary of Off Site Borehole Construction Details

Borehole ID	Diameter (mm)	Total Drilled Depth (m)	Top of Slotted Well Casing / Gravel Pack (mbGL)	Base of Slotted Well Casing / Gravel Pack (mbGL)	Targeted Geology
BHM6	-	10	5	7.5	Tintern Sandstone
BH539	35	14.2	1	3	Head Deposits
DI 1339	50	14.2	5	14.2	Tintern Sandstone
BH541	50	11.5	2	11.5	Tintern Sandtsone

6.3 Surface Water Quality Monitoring

6.3.1 Surface water quality monitoring was not undertaken during the previous ground investigations of the Site.

6.4 Field Testing

- **6.4.1** Monitoring of Volatile Organic Compounds (VOCs) was undertaken on:
 - three soil samples from BH539 at 0.2-0.5 mbGL, 0.5-1.0 mbGL and 1.0-1.2 mbGL;
 - two soil samples from BH540 at 0.2-0.5 mbGL and 0.5-1.0 mbGL; and
 - three soil samples from BH541 at 0.2-0.6 mbGL, 0.6-0.8 mbGL and 0.8-1.0 mbGL.

6.5 Groundwater Monitoring

A summary of the groundwater sampling, groundwater/monitoring and ground gas monitoring from the selected off site boreholes is shown in Table 4.

Table 4: Summary of Monitoring Rounds (Off Site)

Location Ref.	Number of Rounds (Date of Sampling)	Monitoring Details	Notes
внм6	5 no . (15 th November 1997, 25 th November 1997, 2 nd December 1997, 10 th December 1997, 16 th December 1997)	Groundwater level	-
BH539	4 no . (24 th March 2015 , 31 st March 2015, 16 th April 2015, 8 th May 2015)	Groundwater level / sampling Soil gas	Gas monitoring in 35 mm shallow installation only
BH541	4 no. (31 st March 2015, 16 th April 2015, 21 st April 2015, 8 th May 2015)	Groundwater level / sampling Soil gas	-

6.6 Laboratory Chemical Testing

A summary of laboratory analysis undertaken from the selected off site boreholes on groundwater is shown in Table 5.

Table 5: Summary of Previous Investigation Sampling

Site Investigation Date	No. of Soil Samples	No. of Leachate Samples	No. of Water Samples	Suites of Testing
2015	N/A	0		Metals, PAH, TPH, pH, cyanide, PCBs, VOCs, SVOCs, BTEX, phenols, inorganics

Soil Analysis

6.6.2 No soil data is available for the Site.

Soil Leaching Analysis

6.6.3 No soil leaching data is available for the Site.

Groundwater Analysis

- 6.6.4 The following sections summarise the laboratory analytical results for groundwater samples collected during the various intrusive investigation phases within the selected off site boreholes. The available data set has been tabulated and is presented in Appendix 3 with supporting laboratory certificates available in the relevant original reports.
- 6.6.5 The available data relates to samples taken from wells installed within the groundwater of the Head Deposits and Tintern Sandstone.

6.6.6 The available information is summarised in Table 6.

Table 6: Summary of Analytical Groundwater Data (Off Site)

Cusumduratan	Number of C 2015 data	Number of Groundwater Analyses per Analytical Suites (number of well locations) – 2015 data										
Groundwater Unit	Metals & Inorganics	РАН	Total Petroleum Hydrocarbons	Phenol	втех	SVOCs	VOCs	PCBs				
Perched Groundwater (Head Deposits)	3 (1)	3 (1)	3 (1)	3 (1)	3 (1)	2 (1)	3 (1)	1 (1)				
Groundwater (Tintern Sandstone Formation)	6 (2)	6 (2)	6 (2)	6 (2)	6 (2)	4 (2)	6 (2)	3 (2)				

6.7 Gap Analysis of Available Data

6.7.1 There is no investigation data available for the Site.

7 Ground Conditions

7.1 Geology

7.1.1 The geological logs for all available exploratory holes excavated on or in close proximity to the Site are provided in Appendix 1. The observed geological sequence is consistent with that described in the 2014 PSSR report and is summarised in the following sections. Information from the Supplementary Ground Investigation (Geotechnical Engineering, 2015) has also been used.

Superficial Deposits

- **7.1.2** Unconsolidated superficial deposits were encountered beneath the topsoil. These comprised Head Deposits, predominantly sand and gravel, encountered to 0.5 to 1.3 mbGL.
- **7.1.3** In borehole (BH539), a thin veneer of Tidal Flat Deposits to 2.35 mbGL was recorded. This was encountered as very soft clay.

Solid Geology

7.1.4 Beneath the superficial deposits the Tintern Sandstone Formation was encountered. This typically comprised sandstone with some interbedded thin mudstones/marls.

Geological Sequence Summary

7.1.5 The anticipated general geological sequence beneath the Site based on the nearby off site previous ground investigation is summarised Table 7.

Table 7: Summary of Geological Sequence (Off Site)

Unit	Description	Thickness Range (m)	Basal Depth (mbGL)
Made Ground	Unknown	unproven	unproven
Superficial Deposits (Head Deposits)	Typically sand and graveland cobbles within a clay matrix	0.5* - 1.3*	0.6* - 1.3*
Superficial Deposits (Tidal Flat Deposits)	Soft clay	Absent*	-
Tintern Sandstone Formation	Sandstone with occasional bands of mudstone	>9.39* - >19.6*	Unproven*

Note: * inferred from off site exploratory holes.

7.2 Visual and Olfactory Evidence of Contamination

- **7.2.1** No records are available for the Site during the previous ground investigations.
- 7.2.2 PID monitoring was undertaken from three off site boreholes, three soil samples from BH539, two soil samples from BH540 and three soil samples from BH541. The PID meter recorded levels of between zero and 5.1 ppm within either the Tidal Flat Deposits or Head Deposits indicating the presence of low level naturally occurring VOCs.

7.3 Gas Monitoring

- 7.3.1 The gas monitoring data set collected during each of the previous monitoring rounds at the off site boreholes is summarised on the field data sheets provided in Appendix 2. The maximum concentrations are presented in Table 8.
- **7.3.2** Boreholes BH539 and BH541 are also considered to assess the gas regime for CL-30, located approximately 110 m to the east.

Table 8: Summary of Gas Monitoring Data (Off Site)

Location	Flow (I/hr)	VOCs (ppm)	CH ₄ (%/vol) ¹	Peak LEL (%)	CO ₂ (%/vol) ²	O ₂ (%/vol) ³	CO (ppm) ⁴	H ₂ S (ppm)
ID	Maximum	Maximum	Maximum	Maximum	Maximum	Minimum	Maximum	Maximum
BH539 (S)	2.1	4.7	0.1	1.0	0.4	20.0	1.0	0.0
BH541	0.0	6.0	0.1	18.9	1.0	19.2	64	0.0

7.4 Groundwater

Groundwater Encountered During Investigation

7.4.1 Groundwater strikes were encountered during the advancement of borehole BHM6 and BH539 and are summarised in Table 9.

Table 9: Summary of Groundwater Strike Data (Off Site)

Location	Strike Depth (mbGL)	Geological Formation	Level after 20 minutes (mbGL)	Comments
BHM6	6.5	Tintern Sandstone	0.0 (log indicate time taken to rise as 0)	Unclear if the recorded level and time for the rise is accurate.
BHIVIO	-	-	-	Water level recorded at 4.21 mbGL when borehole completed within the Tintern Sandstone (10 mbGL).
BH539	1.2	Tidal Flat Deposits	1.0	-

Groundwater Level During Monitoring Rounds

- **7.4.2** No groundwater level monitoring has been undertaken on site during the previous investigations.
- **7.4.3** The entire groundwater level data set gathered at the off site boreholes is provided in Appendix 2 and summarised in Table 10.

Table 10: Summary of Groundwater Level Data (Off Site)

Location	Installation #1	Depth of Response Zone (mbGL) and Geological Formation	No. Measurements	Minimum Depth (mbGL)	Maximum Depth (mbGL)	Comments (Indicative Water Levels - mOD)
ВНМ6	-	5 - 7.5 Tintern Sandstone	5	1.67	3.52	9.38 - 7.53
BH539	35 mm (S)	1 - 3 Head Deposits	4	0.56	2.03	5.79 - 4.32
рпооя	50 mm(D) 5 - 14.2 Tintern Sandstone		4	1.09	3.39	5.26 - 2.96
BH541	50 mm	2 - 11.5 Tintern Sandstone	4	6.67	8.15	4.68 - 3.20

Notes: #1 S denotes a shallow installation and D denotes deep installation.

Groundwater Summary

- 7.4.4 The main groundwater body present is anticipated to be within the Tintern Sandstone, with the resting levels recorded as variable in-between the monitoring visits. The resting groundwater as recorded in the 1997 borehole (BHM6) is seen to be above the levels recorded in the 2015 boreholes. The reason for this difference in water levels is unclear.
- **7.4.5** The Tintern Sandstone may be considered to be in hydraulic continuity with the groundwater within the Head Deposits.

8 Contamination Assessment

8.1 Introduction

- **8.1.1** The following sections provide details of the assessment of land contamination at the Site.
- 8.1.2 The outline Conceptual Site Model (CSM) presented within the 2014 PSSR has been reviewed and updated based on data from the Supplementary Ground Investigation (Geotechnical Engineering, 2015) and the proposed Scheme. The main amendments to the 2014 PSSR model are summarised as follows:
 - Removal of the backfill quarry as a source (off site and separated from the new section of motorway by the railway cutting).
 - Removal of Bareland Street Reen East as a potential receptor (separated from the Site by the A4180 embankment).
 - Update of the source-pathway-receptor linkage taking account of the above and more detailed assessments.
 - Alteration of the site boundary and additional stockpiled material identified.

8.2 Preliminary Risk Assessments

Potential Sources

8.2.1 The two identified spoil mound materials are a potential source of contamination. It is probable that the older mound materials are residual earthworks material from the construction of the railway or road. The more recent stockpile is identified to be no longer present based on the aerial photograph. It is considered unlikely that these materials pose a significant risk to human health or controlled waters. However, this would require confirmation through additional investigation.

Potential Receptors

8.2.2 Receptors during the construction and the operational stages of the Scheme have been considered:

Construction

- Construction workers during Site development works.
- Groundwater within the Head Deposits and/or Tintern Sandstone.
- Site neighbours (railway/A4180 users) adjacent to construction works.

Operational

- Groundwater within the Head Deposits and/or Tintern Sandstone.
- Spoil materials, should any remain within the new section of motorway, are likely to be encapsulated or removed during the construction of the proposed bridge and embankment and therefore no direct exposure to potential contaminants would be possible. Therefore, general public, maintenance workers or neighbours of the Site are not considered potential receptors.

Potential Pathways

- **8.2.3** Pathways during the construction and the operational stages of the Scheme have been considered:
 - Dermal contact, ingestion, inhalation pathways of potentially contaminated soils possible during construction works.
 - Leaching of contaminants from the backfill materials and/or spoil heaps to groundwater.

8.3 Risk Evaluation

- 8.3.1 Source-pathway-receptor linkages were considered in the 2014 PSSR using the historical data available up to 2008. With review of the other data described herein, the following risk evaluation has been reconsidered and included:
 - The Site has been subject to potential contaminating uses, including presence of a spoil mound comprising unknown materials.
 - The construction of the embankment is likely to require excavation through Head Deposits into the top of the Tintern Sandstone. It is anticipated much of the spoil will be removed during that process.
 - Site materials are to be reused subject to passing reuse criteria, or disposed off site.
 - Groundwater levels within the principal aquifer associated with the sandstone are indicated to be at resting level within the Head Deposits.
 - There is risk of increased potential soil leaching and migration to the shallow groundwater during spoil removal.

8.4 Human Health Risk Assessment

8.4.1 No screening assessment has been undertaken as no soil analysis data is available for the Site.

8.5 Controlled Water Screening Assessment

- 8.5.1 The rationale and approach for the controlled waters (Tier 1) screening assessment is detailed in the Land Contamination Assessment Report (Appendix 11.1 of the ES) and the groundwater chemical results are presented in Appendix 3. No soil leachate or surface water data is available. All exceedances to the relevant generic criteria are summarised in Table 11 for groundwater.
- Where an Environmental Quality Standard (EQS) is dependent on water hardness, i.e. some heavy metals, the hardness of the surface water receptor should normally be used. The Baseline Water Environment Report (Appendix 16.2 of the ES) indicates surface water to be generally moderately hard with hardness concentrations within a range of 100 to 150 mg/l as calcium carbonate. Therefore, EQSs within the water hardness range have been used for screening purposes.

Soil Leachate Results

8.5.3 No chemical soils leachate data is available for the Site.

Groundwater Results

- 8.5.4 Groundwater analysis results have been assessed from samples collected over number of rounds of groundwater monitoring results from off site boreholes BH539 and BH541 constructed in 2015. The groundwater samples were taken from the perched groundwater within the Head Deposits and from the aquifer associated with the Tintern Sandstone.
- **8.5.5** A summary of the exceedances of the screening criteria from all available ground results relating to the site is presented in Table 11 and discussed below.

Table 11: Groundwater Screening Exceedances (Off Site)

Determinant	Units	Range	EQS ¹	DWS ²	No. exceeded Screening Criteria (Total number of results) against EQS	Location	No. exceeded Screening Criteria (Total number of results) against DWS	Location
Perched Gro	oundwa	ater						
Copper	µg/l	<1 - 21	10	2000	1 (3)	BH539	0 (3)	_
Mercury	µg/l	<0.5 - 0.65	0.07	1	1 (3)	BH539	0 (3)	-
Nickel	μg/l	2.3 - 7	4	20	1 (3)	BH539	0 (3)	-
Phenols	µg/l	<0.03 - 0.03	0.007 7	-	1 (3)	BH539	0 (3)	-
Aquifer								
Copper	µg/l	<1 - 16	10	2000	1 (60	BH539	0 (6)	-
Arsenic	µg/l	<1 - 25	50	10	0 (6)	-	1 (6)	BH541
Mercury	µg/l	<0.5 - 1.3	0.07	1	1 (6)	BH539	1 (6)	BH539
Nickel	µg/l	<1 - 6.2	4	20	2 (6)	BH539	0 (6)	-
Chloride	mg/l	13 - 620	250	250	1 (6)	BH541	1 (46)	BH541
Ammoniacal Nitrogen	mg/l	0 - 1.4	0.6	-	2 (6)	BH541, BH539	-	-

Notes: 1. Environmental Quality Standard. 2. Drinking Water Standards.

- 8.5.6 The review of the groundwater chemical testing results indicated that the deep groundwater off site has elevated levels of metals (arsenic, copper, mercury and nickel) and inorganics (chloride and ammoniacal nitrogen).
- 8.5.7 The perched groundwater within the Head Deposits is shown to have elevated metals (mercury, copper and nickel) and phenols.

- 8.5.8 All Polycyclic Aromatic Hydrocarbons (PAH), Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), phenols, Benzene, Toluene, Ethylbenzene and Xylene (BTEX), Total Petroleum Hydrocarbons (TPH) and Polychlorinated biphenyl (PCB) results were found below limit of detection within both water bodies.
- **8.5.9** It is noted the laboratory detection levels for mercury, cyanide, some PAH compounds, VOCs and SVOCs are higher than the applied screening criterion.

8.6 Ground Gas Risk Assessment

- 8.6.1 The only ground gas data available relates to off site boreholes BH539 and BH541. These have response zones within the Head Deposits (between 1 and 3 mbGL) and within the Tintern Sandstone (between 2 and 11.5 mbGL), respectively. Of the four rounds available, the following comments may be made:
 - No monitoring was undertaken during low barometric pressure (less than 1000 millibars (mb)), with the lowest conditions being 1002 mb. As such worst case atmospheric conditions for potential ground gas generation may have not been monitored.
 - Gas flow was generally recorded absent, with the exception of the second round for BH539 which peaked at 2.1 l/hr.
 - Methane has been recorded nil or up to 0.1 % during all four rounds, below the screening criteria of 1 %. However, the Lower Explosion Limit (LEL) of up to 18.9 % is noted. Given the lack of correlation between methane concentration per volume and per LEL, it is considered these marginal readings to be caused by equipment inaccuracy rather than representative of the presence of actual methane gas.
 - Carbon dioxide is identified between 0 and 1 %, below the screening criteria of 5 %.
 - Trace of VOCs of up to 6 ppm has been recorded.
 - Hydrogen sulphide was recorded zero throughout.
 - Carbon monoxide was recorded absent on all rounds for BH539. The first round for BH541 identified a maximum concentration of up to 64 ppm, falling to 1 ppm on the second round and zero on the following two rounds. The maximum recorded concentration is above the screening criteria of 30 ppm. Given the obvious falling trend and absence of obvious source, this is considered likely to be caused by the installation works rather than indicative of carbon monoxide flux within the soils.
 - Oxygen has been recorded to be ambient with concentrations between 19.2 and 20.7 %.
- **8.6.2** On the basis of the above, off site boreholes have not identified obvious soil gas sources. Given the nature of the potential source of contamination at the Site spoil heaps, the risks from ground gas associated with this feature, during construction and operation, are considered very low.
- A gas risk assessment for natural soils has been undertaken and is set out within the Land Contamination Assessment Report (Appendix 11.1 of the ES).

Whilst the gas regime within the spoil heap remains unknown, its removal for the construction of the embankment is likely to remove much of the potential source. Depending on the nature of the material and the extent to remain *in situ*, additional investigation may be required to confirm risks.

8.7 Summary

- 8.7.1 The quality of the perched groundwater within the Head Deposits and the aquifer within the Tintern Sandstone are similar and shown to have elevated metals and inorganics (data from within 50 m of the Site). Hydrostatic linkage between the perched groundwater and the aquifer within the Tintern Sandstone is identified.
- 8.7.2 The elevated levels of metals and inorganics recorded in off site monitoring wells are considered unlikely to be evidence of contamination migrating from the mounds. However, verification sampling and testing should be undertaken to confirm this.
- 8.7.3 It is considered unlikely that any potential ground gases from former activities at the Site (spoil heaps) would cause a risk during the construction or operation of the Scheme. The risk from ground gas from natural sources at the Site is also considered very low.

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9 Refined Conceptual Site Model

- 9.1.1 The incorporation of data from the 2015 Supplementary Ground Investigation has enabled the original CSM presented in the 2014 PSSR to be updated. Relevant contaminant (source-pathway-receptor) linkages are considered within the refined CSM. The assessment is based on the Scheme during construction and operational phases.
- 9.1.2 A CSM representing general ground conditions, overall layout of the new section of motorway and relevant source-pathway-receptors (each of which having a specific alpha-numerical symbol attached) are presented in Figure 2 and is described in Table 12.

Table 12: Refined Conceptual Site Model

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
Spoil	Construction			•		
materials (unknown material)	Construction workers (A)	Dermal contact with soil (1)	Likely	Low	Low	Construction workers are likely be exposed to Made Ground materials during Site construction works; however exposure duration will be short term only. Use of appropriate PPE and good hygiene practice throughout earthworks and construction phase is recommended. Dust suppression measures are recommended during construction works.
		Ingestion of soil (2)	Likely	Low	Low	No chemical analysis has been undertaken at the Site however exposed materials at the surface indicate possible backfill with quarry spoil. This is not considered to represent abnormal constraints to construction workers
		Inhalation of soil dust (3)	Likely	Low	Low	health and safety over and above those typical of a brownfield site. Additional investigation is required to confirm the nature of the material within the spoil and associated risks.
		Inhalation of soil gas or vapour (3)	Low	Low	Very low	Construction workers may be exposed to ground gas potentially generated by the spoil heap materials during the excavation works. Works taking place in open atmosphere. No on site ground gas data. Gas monitoring from nearby off site boreholes indicates no abnormal soil gas regime. Additional investigation and soil testing required to confirm the characteristic of the Made Ground and associated risks.
	Off site users during construction	Dermal contact with soil dust (1)	Unlikely	Low	Very low	During construction there is the possibility of dermal contact and inhalation of soil dust, short term exposure only.
	works (B)			Low	Very low	Dust suppression measures are recommended during construction works.

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
		Inhalation of soil dust (3)	Unlikely	Low	Very low	
		Inhalation of soil gas or vapour (3)	Unlikely	Low	Very low	Any ground gas source, if present, will be of limited volume. Receptor in open space and of short term exposure. The Scheme will result in the mounds being removed.
	Groundwater within the Head Deposits (Dp) and principal aquifer within the Tintern Sandstone (Da)	Leaching/ migration (4)	Low	Low	Very low	The construction will remove some of the mound and thus reduce any risks to controlled waters. Verification sampling is needed to confirm the low risk to controlled waters and to check arisings are suitable for reuse on the Scheme.
	Operational					
	Groundwater within the Head Deposits (Dp) and Principal Aquifer within the Tintern Sandstone (Da)	Leaching/ migration (4)	Unlikely	Low	Very low	Any potentially contaminated materials are likely to be encapsulated within the proposed embankment (subject to compliance with reuse criteria) or removed. The construction will remove some of the mound and thus reduce any risks to controlled waters.

10 Conclusions and Recommendations

10.1 Conclusions

- 10.1.1 The Site has been subject to localised historical tipping of materials of unknown origin. No ground investigations have been undertaken at the Site, however based on the desk study information, gross contamination is not anticipated.
- 10.1.2 Gross contamination associated with the Site's historical use is not anticipated. Normal construction control measures will be required to facilitate the construction and ongoing operation of the Scheme.
- 10.1.3 There is no analytical data specific to the Site that falls within the footprint of the motorway corridor. This should be mitigated through the provision and implementation of a suitable verification sampling inspection strategy during construction to confirm conditions are as expected and clarify materials are appropriate for reuse.
- **10.1.4** During the construction phase, specific mitigation measures will be required to prevent inhalation pathways of dust to the general public off site and construction workers.
- 10.1.5 A suitable water management strategy will also be required to prevent impact to surface waters from run-off during construction.
- **10.1.6** Materials, including any mounds associated with tipping at the Site, will be partially removed or encapsulated and are considered likely to be suitable for reuse subject to provision of reuse criteria under a Materials Management Plan.
- During the operational phase, the embankment will cover part of the Site, which will limit the infiltration of rainwater through the soils and thus potential leaching of soil contaminants into the groundwater. However, given the relatively high groundwater level within the Head Deposits, part of the Made Ground materials that could remain saturated beneath the embankment may provide a source of ongoing potential leachable contaminants.
- 10.1.8 In order to confirm the low to moderate risks associated with the Site in relation to both construction and operational phases, and the suitability for reuse within the new section of motorway, it is recommended that verification investigations are undertaken, including, as a minimum, testing of soils and soil leachate.

10.2 Recommendations

10.2.1 No ground investigation has been undertaken at the Site and although the likelihood of any contamination at the Site is relatively low, due to the Site's history, localised contamination may have occurred. As such, it is recommended that a limited ground investigation is undertaken to verify risk levels described in this report. Should contamination be identified that could cause an unacceptable risk to the identified receptors, then remedial requirements would be identified within a remediation strategy for the Scheme. Any materials from this Site will require verification testing to check their suitability for reuse.

- **10.2.2** A remediation strategy for the Scheme should be developed for the Site that includes:
 - Addressing potential human health and controlled waters risk identified by the proposed additional ground investigation.
 - · Dealing with unexpected contamination.
 - Verification sampling to confirm suitability of soils for reuse.
 - Control measures (over and above good practise construction management) to prevent risks to construction workers and the general public during construction.
 - Verification of material used as topsoil.
- **10.2.3** The remediation strategy should include a remediation options appraisal, remediation implementation plan and remediation verification plan.
- 10.2.4 The remediation strategy should be supported by a Scheme wide Materials Management Plan prepared in accordance with CL:AIRE Code of Practice (CL:AIRE, 2011).

11 References

CL:AIRE (2011) The Definition of Waste: Development Industry Code of Practice, ISBN 978-1-905046-23-2.

Geotechnical Engineering Limited (2015) M4 Corridor Around Newport, Factual Report on Ground Investigation, 30238

Highways Agency (2008) Design Manual for Roads and Bridges. Vol. 4. Geotechnics and Drainage. Section 1. Earthworks; Part 2. HD22/08. Managing Geotechnical Risk.

Ove Arup & Partners (2014) M4 Corridor Around Newport, Preliminary Sources Study Report, 14/9197

Bactec (2014) Explosive Ordnance Threat Assessment in respect of M4 Corridor around Newport for Hyder Consulting (UK) Limited, 5750TA

12 Glossary

BF Blast Furnace

BGS British Geological Survey

BOD Biochemical Oxygen Demand

BOS Basic Oxygen Slag

BTEX Benzene, Toluene, Ethylbenzene and Xylene

CAT Cable Avoidance Tool

CDM Construction Design Management

CH4 Methane

CLEA Contaminated Land Exposure Assessment

CO2 Carbon Dioxide

CO Carbon Monoxide

COD Chemical Oxygen Demand

CSM Conceptual Site Model

DMRB Design Manual for Roads and Bridges

DO Dissolved Oxygen

DQRA Detailed Quantitative Risk Assessment

DWS Drinking Water Standard

EC Electrical Conductivity

EIA Environmental Impact Assessment

ES Environmental Statement

ESG Environmental Scientifics Group

EQS Environmental Quality Standard

FTIR Fourier Transform Infrared (spectroscopy)

GAC Generic Assessment Criteria

GDR Geotechnical Design Report

GIR Ground Investigation Report

GRO Gasoline Range Organics

LEL Lower Explosive Limit

LOD Limit of Detection

mAOD Metres Above Ordnance Datum

mb Millibars

mbGL Metres below Ground Level

MTBE Methyl Tert-butyl Ether

NRW Natural Resources Wales

ORP Oxidation Reduction Potential

O2 Oxygen

OS Ordnance Survey

PAH Polycyclic Aromatic Hydrocarbon

PCB Polychlorinated Biphenyl

PCSM Preliminary Conceptual Site Model

PID Photo Ionisation Detector

PPE Personnel Protection Equipment

SGVs Soil Guideline Values

SSAC Site Specific Assessment Criteria

SSSI Site of Special Scientific Interest

SVOCs Semi-Volatile Organic Compounds

TOC Total Organic Carbon

TPH Total Petroleum Hydrocarbon

TPH CWG Total Petroleum Hydrocarbon Criteria Working Group

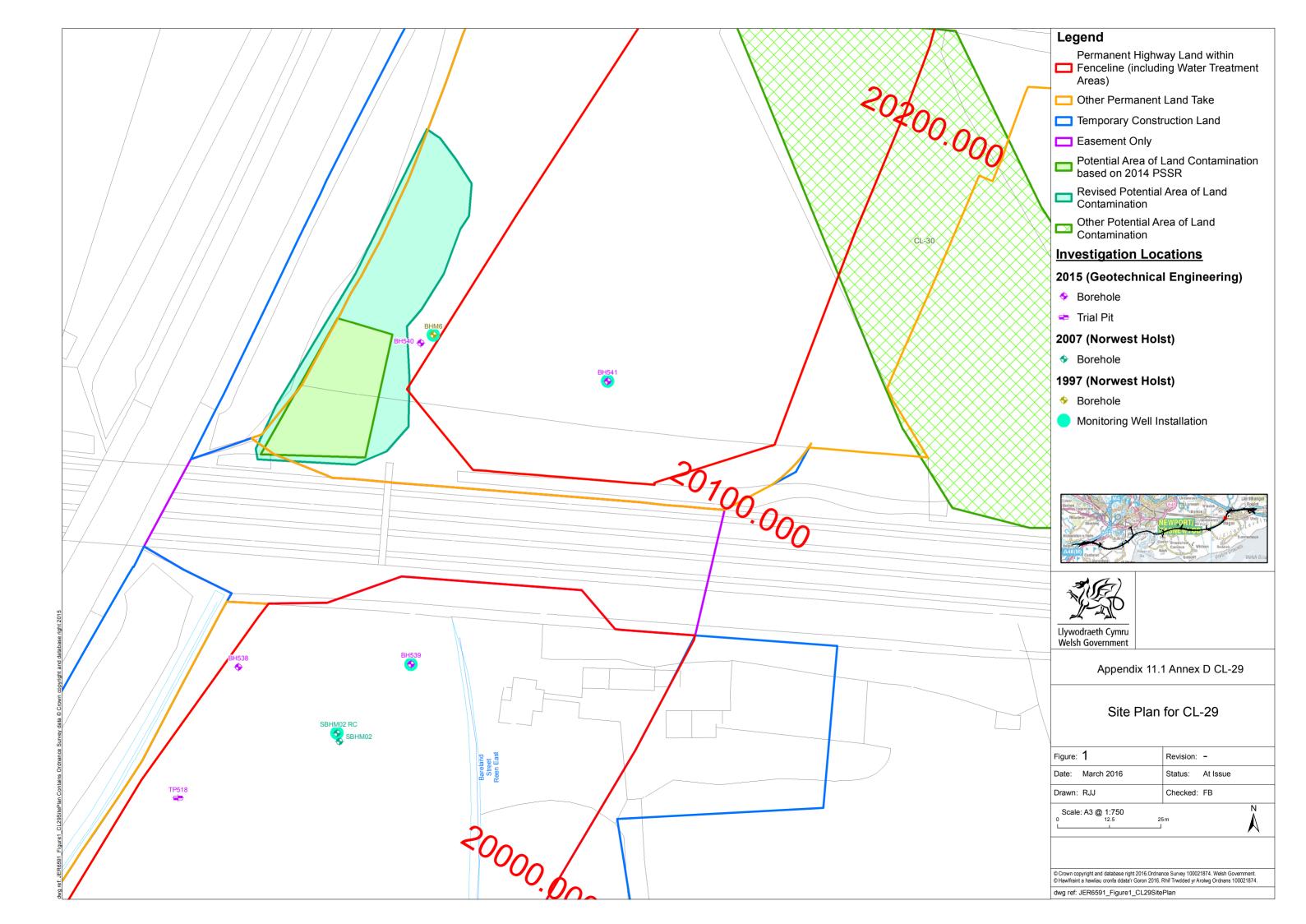
UKAS United Kingdom Accreditation Service

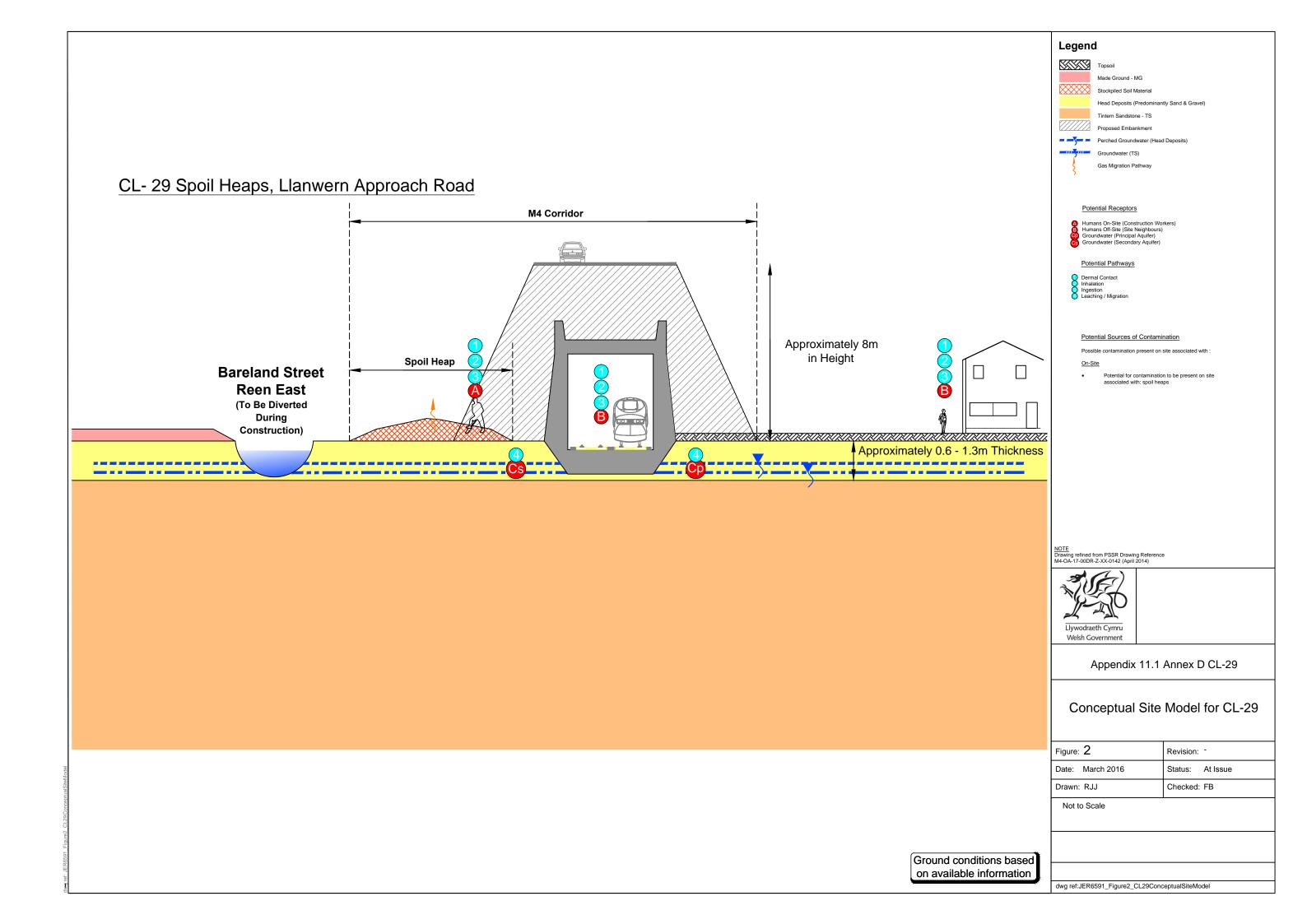
VOCs Volatile Organic Compounds

WFD Water Framework Directive

UXO Unexploded Ordnance Survey

Figures





Appendices

A1 Appendix 1

Exploratory Records



Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Borehole No. BHM6

Header

Contract No.

F10895

M4 Relief Road Magor to

Method Drilling Rig Rotary Coring

Coordinates

341586.8 E

Project

Castleton Stage 2

Driller

Knebel 77 E.D

Ground Level

187014.0 N 11.10m AOD

Client

Welsh Office

Logged by T Core barrel P

T.R/C.D

Orientation Date Started

Vertical 11/11/1997

Consultant

Ove Arup and Partners

NB All depths in metres, all diameters in millimetres,

water strike rise time in minutes.

Core bit

Saw Tooth

Date Completed

11/11/1997

ROTARY HEADER

2.00

25/06/1997

Form

Version

Revised

		F	PROGRESS			DRILLING DETAILS							
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To depth	Flush type	Flush return	Core diameter			
11/11/1997	1800	10.00	2.50	4.21		0.00 2.00	2.00	mist mist	100% 100%	0* 92			
							:						

	CASI	NG		WATER STRIKES											
Hole diameter	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow				
120	10.00	140	2.50	11/11/1997	0000	6.50	0.00	O		2.50	0.00				

GENERAL NOTES			SPT DETAILS	Ī
	Depth	Туре	Incremental blow count/penetration in mm	
	1.00 2.00 3.00 5.60	C	N=25 (5,5,9,8,5,3) 50/15mm (13,12,50) 51/231mm (1,1,11,2,8,30) 50/75mm*	



Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Borehole No.

BHM6

1.00

16/09/96

Version

Revised

Sheet 1 of 1

Contract No.

F10895

M4 Relief Road Magor to

Castleton Stage 2

Client

Consultant

Project

Welsh Office

Ove Arup and Partners

See header sheet for details of drilling, progress and water

strikes. See legend sheet for key to symbols.

Method

Drilling Rig

Driller Logged by Knebel 77 E.D

Saw Tooth

Rotary Coring

T.R/C.D

Core barrel Ρ Core bit

Coordinates

Ground Level

Orientation

341586.8 E

187014.0 N

11.10m AOD

Vertical

11/11/1997

Date Started Date Completed 11/11/1997

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Coring and Sampling	TCR	SS SS	₽ Q	Ħ	SPT N & depth	Inst ati
TOPSOIL	00	0.10	11.00							1
Brown sandstone cobbles in CLAY (drillers description). (Head Deposits)	0 0	0.61	10.49							
Weathered SANDSTONE clayey (drillers description).			- - -					:	25 1.00 1.45	
(Tintern Sandstone)			- - - -							
		2.50	- - - - - - 8.60	2.00 2.50	40	0	0	NI	C50/15mm 2.00 2.17	→ -
Greyish green fine to coarse grained thinly to medium sub-horizontally bedded occasionally thinly and thickly		2.30	2 2 2	2.50 3.00	36	0	0	NI		
laminated SANDSTONE, strong completely fractured. (Tintern Sandstone)			-	3.00 3.50	40	0	0	NI	C51/231mm 3.00 3.30	—
Reddish brown fine to coarse grained medium sub-horizontally bedded slightly to moderately weathered		3,50	7.60	3.50 4.00	46	10	0	NI		
micaceous SANDSTONE, strong with medium spaced very thin beds of fine gravelly sandstone and closely to medium spaced inclined discontinuities planar rough tight. (Tintern Sandstone)			- - -	4.00 4.60	92	83	28	4		
from 3.50 to 4.00m completely fractured			<u>-</u> - - - -	4.60 5.66	10		0	NI		
from 4.60 to 4.75m completely fractured			- - - -						C50/75mm* 5.6	- - - - - - -
from 5.60 to 5.75m completely fractured			- - -	5,60 6,0	25	0	0	NI	5.6	8 -
from 6.00 to 6.50m sub-vertical fracture (075°) planar rough tight		6.50	4.60	6.00 6.5	100	96	٥	5		
from 6.50 to 6.75m moderately weathered Reddish brown to greyish green fine to medium grained			- - - -					12		
thinly to medium sub-horizontally bedded slightly to moderately weathered micaceous SANDSTONE, moderately strong to strong with closely spaced very thin interbedding of reddish brown mottled grey mudstone with				6.50 8.0	100	93	21	6		
closely to medium spaced sub-horizontal discontinuities planar rough tight. (Tintern Sandstone)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	8.00	3.10			-				
from 7.00 to 7.25m sub-vertical fracture (065°) planar rough tight			- - - - -	8.00 9.5	0 10	0 97	79	11		
from 7.35 to 7.60m sub-vertical fracture (065°) planar rough tight	/ :::::: ::::::		-							
SANDSTONE As Sheet 2			- - -	9.50 10.0	0 90	0 80	0	5		
Rotary drilling complete at 10.00 m.		10.00	3.10					1		吉



Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Borehole No. BHM₆

Extra Sheet

Project

Client

F10895

M4 Relief Road Magor to Castleton Stage 2

Welsh Office

Consultant

Ove Arup and Partners

Method **Drilling Rig**

Core bit

Knebel 77 E.D

Driller Logged by Core barrel

T.R/C.D

Saw Tooth

Rotary Coring

Coordinates

Date Completed

341586.8 E

187014.0 N 11.10m AOD

Ground Level Orientation Vertical Date Started

11/11/1997 11/11/1997

Depth O.D. Coring and Description of Strata TCR SCR SPT N Below RQD Install-Legend Level Sampling G.L. & depth ation Purple occasionally mottled greyish green fine to coarse grained thinly to medium horizontally bedded fresh to slightly weathered micaceous SANDSTONE, strong with closely to medium spaced discontinuities planar rough tight. (Tintern Sandstone) Rotary drilling complete at 10.00 m.

NB All depths in metres, all diameters in millimetres.

See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form	NH ROTARY LOG
Version	1.00
Revised	16/09/06

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

BH538

SITE M4 CORRIDOR AROUND NEWPORT

Sheet 1 of 2

Start Date 6 March 2015

Easting 341581.4

Scale 1 : 50

End Date 9 March 2015 Northing 186934.6 Ground level 6.35mOD Depth 14.20 m

progress date/time water depth	no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	If	instru -ment	description	depth (m)	reduced level (m)	legeno									
06/03/15 0900hrs	1B 2D* 3B 4D*	0.20 - 0.50 0.20 - 0.50 0.50 - 1.00 0.50 - 0.10	-	Vo 0.0 Vo 0.0			1//	Grass over very soft reddish brown sandy gravelly CLAY. Gravel is rounded fine and medium quartz. (TFD)	- - - - -											
	5B 6D* 7D 8X 9D*	1.00 - 1.20 1.00 - 1.20 1.20 - 1.65 1.20 - 2.20 1.30 - 1.40	Nil	Vo 0.3 S 3					- - - - - 1.60	4.75										
	10D	2.20 - 2.65	- - - Nil	S 6				Very soft light brown slightly gravelly very sandy CLAY. Gravel is rounded fine and medium quartz. (TFD)	- - - -											
	11X 12D*	2.20 - 3.20 2.30 - 2.40	- - -					2.20 - 2.35m: Soft. Loose light brown clayey fine SAND. (TSG)	2.35 - - - 2.75 -	3.60										
	13D 14X	3.20 - 3.65 3.20 - 3.90	Nil	S 20				Light brown clayey gravelly fine and medium SAND with rare lenses (up to 5mmx5mm) of bluish grey fine sand. Gravel is subrounded fine and medium sandstone. (TSG)	3.10	3.25										
14X 15D*	3.30 - 3.40	3.90	S*100				Medium dense reddish brown clayey silty fine and medium SAND with rare lenses (up to 5x5mm) of bluish grey sand. (TSG)	- - - -												
	17C	17C 3.90 - 4.90 4.90 - 5.03	3.90 - 4.90 4.90 - 5.03	3.90 - 4.90 4.90 - 5.03	3.90 - 4.90 4.90 - 5.03	3.90 - 4.90 4.90 - 5.03	3.90 - 4.90	3.90 - 4.90 4.90 - 5.03	4.90 - 5.03			- 0.30	0 100	89 0 0			3.90m: Very dense.	4.40	1.95	
										3.90	C*200	100	NA NI		Bluish grey silty fine and medium SAND. (TSG) Weak and medium strong bluish grey fine and medium	4.80	1.55	× · · · · ·		
	18C	4.90 - 6.40	- - - - - - - -		100 0 0			SANDSTONE. Fractures are subhorizontal to 20° and 60-70° extremely closely spaced undulating and stepped smooth. (TSG)												
	19C	6.40 - 7.90	3.90		100 26	50 100 140		Very weak reddish brown fine and medium SANDSTONE.	6.40	-0.05	• • • •									
1			-		18	140 NI		Fractures are subhorizontal to 20° and 70° very closely and closely spaced undulating rough with a veneer of reddish brown clay. (TSG)	6.80	-0.45										
			- - - -			NI		Reddish brown fine and medium SANDSTONE recovered non intact as slightly clayey sandy angular and subangular and fine to coarse sandstone gravel. (TSG) 7.50m: 20° fracture undulating rough infilled (up to 2mm)	7.50	-1.15										
						NI		with reddish brown clay. Continued Next Page	7.85 -	-1.50										

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (128mm) 1.20-3.20m, (113mm) 3.20-3.90m. Waterflush rotary core drilled (116mm) 3.90-14.20m.

CASING: 140mm diam to 6.40m.

BACKFILL: On completion, a slotted standpipe (50mm) with geo-sock was installed to 14.00m, granular response zone 14.20-5.00m and bentonite seal 5.00-3.00m. A second slotted standpipe (35mm) with geo-sock was installed to 3.00m, granular response zone 3.00-1.00m, bentonite seal 1.00-0.20m, concrete and stopcock cover 0.20-0.00m.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks
1.20 Nil 1.00 20 CONTRACT
30238 EC

В

BOREHOLE LOG

SITE



CLIENT WELSH GOVERNMENT

> M4 CORRIDOR AROUND NEWPORT Sheet 2 of 2

1:50 Start Date 6 March 2015 Easting 341581.4 Scale

End Date	9 N	larch 2015			North	ning	18	6934.6	Ground level	6.35mC)D	Depth	14	4.20 m
progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	If	instru -ment		descri	iption		depth (m)	reduced level (m)	legend
06/03/15	20C	7.90 - 8.50	3.90		100 0 0			intact as	ey fine and medium s clayey very sandy an um sandstone grave	ngular and suban		8.50	-2.15	
1550hrs 1.30m	21C 22C	8.50 - 8.80 8.80 - 8.90	- 3.90 - 3.90		100 0 0 100 100	NI		slightly cl	ldish brown MUDSTo ayey slightly sandy a and coarse gravel. (T	ingular and subar		8.80	-2.45	
0850hrs 1.10m	23C	8.90 - 10.00	6.40 - - -		0			Light blui	sh grey mottled redd I non intact as slight ar fine to coarse gra	ish brown MUDS ly clayey slightly s		9.45	-3.10	• • • •
			-		100			Medium s	strong thinly laminate ONE. Fractures are and andulating smooth wit	ed light bluish gre 20° extremely clo	sely	- - - -		• • • •
	24C	10.00 - 11.20	6.40 - - - - - - -		100 49 32	NA		2mm). (T Medium s micaceou reduction to 20° and	strong thinly laminate is SANDSTONE with spots (up to 30mm) d 70° to subvertical e g and stepped rough	ed reddish brown n frequent greenis . Fractures are su extremely closely	coarse sh grey ubhorizontal spaced	10.80	-4.45 -4.85	×
	25C	11.20 - 12.70	- 6.40 - - -		100 43 30	55		localised Strong th	red reddish brown sl bluish grey reduction ckly laminated light	n spots (up to 30r bluish grey fine to	nm). (TSG) coarse	11.85 -	-5.50	
			- - - - - -		100	80 200 340		gravel siz 11.65 - 1 Weak thin coarse SA	ONE with frequent ro ed quartz inclusions 1.85m: Reddish brownly laminated off-whith ANDSTONE. Fracture o subvertical closely	. (TSG) vn. te mottled dark g res are subhorizo	rey fine to	12.70	-6.35	
09/03/15 1415hrs	26C	12.70 - 14.20	- 6.40 		100 90 77	30 140 300		Weak and fine to corounded finclusions	g rough with reddish 2.70m: Reddish brow d medium strong thir arse SANDSTONE vine to coarse gravel s. Fractures are sub n spaced undulating	vn. Aly laminated gree with frequent suba sized quartz and horizontal to 20°	enish grey angular to quartzite	- - - - - - - - - -		
1.90m								Borehole	completed at 14.20r	n.		14.20	-7.85	
water strike	(m) casi	ng (m) rose t	o (m) tii	me to ris	se (m)	rem	arks			AGS	CONTF	18.00 <u>}</u> RACT	CHE	CKED
										nao	302	38	E	С

Geotechnical Engineering Ltd, Tel. 01452 527743 30238 YODA.GPJ TRIALJH.GPJ GEOTECH.GLB 16/07/2015 16:03:51 TP

EC

BOREHOLE LOG

End Date



CLIENT WELSH GOVERNMENT

1 of 2

11.60 m

SITE M4 CORRIDOR AROUND NEWPORT

Easting

341583.7

Scale 1:50

Sheet

Start Date 24 March 2015

25 March 2015

Northing 187012.1 Ground level 10.85mOD Depth

progress date/time	sample no &	depth	n (m)	casing depth	test type &	samp. /core	lf	instru -ment	description	depth (m)	reduced level	legend
water depth	type	from	to	(m)	value	range	'1	mont	description	(111)	(m)	
24/03/15 1000hrs	1B 2D* 3B	0.20 - (0.20 - (0.50 -	0.50	-	Vo 0.4				Grass over brown sandy gravelly SILT. Gravel is subangular and subrounded fine to coarse sandstone. (HDD)	0.50	10.35	× × × × × × × × × × × × × × × × × × ×
	4D*	0.50 -		- - - -	Vo 5.1	60	NI		Brown and yellowish grey clayey sandy subangular and subrounded fine to coarse sandstone GRAVEL with a high subangular sandstone cobble content. (HDD)	1.00	9.85	0.0
	5C	1.00 -		1.40	C*67	0	INI		Limited recovery. Medium strong yellowish grey medium and coarse SANDSTONE recovered non intact. (TSG)	- - -		
	6C	1.50 - 3	2.00	- - -		70 0 0				- - - -		
	7C	2.00 - 2		- 140	C*71	60 8 0				2.50	8.35	• • • •
	8C 9D*	2.50 - 2 2.50 - 2	3.00	- 1.40	071	90	NA		Hard reddish brown slightly sandy silty CLAY. (TSG) Thickly laminated reddish brown and greenish grey clayey	2.75 - 2.90 -	8.10 7.95	×
	10C	3.00 -	4.50	1.40		43 3 0	NI		fine to coarse micaceous SAND. (TSG)/ Limited recovery. Weak to medium strong yellowish grey medium and coarse SANDSTONE. Recovered non intact.	- - - - -		
				-					(TSG)	- - - - - -		
	11C	4.50 - 4 4.50 -		1.40	C*750	82 35 12	NI 50 130		Weak to medium strong reddish brown medium and coarse siliceous SANDSTONE. Fractures are	4.50	6.35	
				 - - -					subhorizontal, 50° and 70° very closely and closely spaced planar rough. (TSG)	- - - - -		• • • •
	12C	5.60 -	7.10	1.40		93 65 37	60 100 260		Weak reddish grey medium and coarse siliceous SANDSTONE. Fractures are subhorizontal and 50° closely and medium spaced planar rough. (TSG)	5.55 - - - - - -	5.30	
				- - - -		_	20 50 110		Medium strong reddish brown fine and medium SANDSTONE. Fractures are subhorizontal and 20° very	6.35	4.50	
	13C	7.10 - 8	8.60	1.40		97 97 59	120 25 120 270		closely and closely spaced planar smooth. (TSG) Medium strong reddish brown medium and coarse SANDSTONE with frequent subrounded and rounded fine and medium gravel sized inclusions of quartzite and mudstone. Fractures are subhorizontal and 20° closely	7.05	3.80	
				- - - -					spaced undulating rough. (TSG) Continued Next Page	{8.00}		• • • •

EQUIPMENT: Comacchio MC205 rig.

METHOD: Hand dug inspection pit 0.00-1.00m. Waterflush rotary core drilled (116mm) 1.00-11.60m.

CASING: 140mm diam to 1.40m.

BACKFILL: On completion, hole backfilled with bentonite pellets.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered prior to use of water flush.



30238

CHECKED **EC**

Geotechnical Engineering Ltd, Tel. 01452 527743 30238 YODA.GPJ TRIALJH.GPJ GEOTECH.GLB 16/07/2015 16:03:54 STP

EC

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

2 of 2

SITE M4 CORRIDOR AROUND NEWPORT

> Scale 1:50

Sheet

Start Date 24 March 2015 341583.7

Easting

progress date/time	sample no &	depth (m)	casing		samp.	l.	instru	description	depth (m)	reduced level	legen
vater depth	type	from to	depth (m)	type & value	/core range	If	-ment	description	(111)	(m)	
24/03/15 1640hrs			- - -					Weak to strong thinly bedded reddish brown locally greenish grey fine and medium SANDSTONE. Fractures			• • •
3.60m			_					are subhorizontal and 20° very closely to medium spaced planar smooth. (TSG)			• • •
5/03/15 845hrs	14C	8.60 - 10.10	- 1.40		79 73 48			,			
3.50m			_						-		
			_			70 90 160		9.15 - 9.80m: Fractures are 20°, 40° and 70° closely spaced planar smooth.			
			-					opacca planta cinocan			
			_			180 180 310		9.80 - 10.45m: Fractures are subhorizontal, 20° and 70°			
	15C	10.10 - 11.60	1.40		90 80 37	310		closely and medium spaced planar smooth. 9.90 - 10.05m: Greenish grey.			
			_		37	NI		10.45 - 11.60m: Fractures are subhorizontal, 20° and 70°			
			_			NI 80 250		closely and medium spaced undulating rough.			
			_					10.70 - 11.50m: Greenish grey. 10.80 - 10.90m: Non-intact.	-		
25/03/15 1030hrs			_								
3.60m			_					Borehole completed at 11.60m.	11.60	-0.75	• • •
			-					Borenoie completed at 11.00m.			
			-								
			_								
			_								
			_						-		
			_								
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			-								
			- - -								
			-								
			F						{18.00}		
vater strike	(m) casi	ng (m) rose t	o (m) ti	me to ris	e (m)	rem	arks	CONT		CHE	CKE
						_		er not encountered prior to use of water 302		1	

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

30 March 2015

DIIJT

SITE M4 CORRIDOR AROUND NEWPORT

Scale 1 : 50

Start Date 26 March 2014

End Date

Easting 341628.8

187002.9 Ground level

Northing

11.35mOD Depth 11.50 m

Sheet

progress	sample	depti	n (m)	casing	test	samp.		instru	descrit ti	depth	reduced	lege
date/time water depth	no & type	from	to	depth (m)	type & value	/core range	If	-ment	description	(m)	level (m)	
26/03/15 1445hrs	1B 2D* 3B 4D*	0.20 - 0.20 - 0.60 - 0.60 -	0.60 0.80 0.80	-	Vo 2.2 Vo 3.4			/ /	Grass over reddish brown slightly gravelly silty fine and medium SAND with rare rootlets (up to 2mm diam). Gravel is rounded and well rounded medium and coarse quartzite. (HDD)	0.50	10.85	X · · · · · · · · · · · · · · · · · · ·
	5B 6D* 7D 8X	0.80 - 0.80 - 1.00 - 1.00 -	1.00 1.43	Nil	Vo 3.2 S*57				Dark reddish grey slightly gravelly fine to coarse SAND with a low angular sandstone cobble content. Gravel is angular and subangular fine to coarse sandstone. (HDD) 0.80 - 1.00m: Gravelly.	1.30	10.05	 ?
	9C	1.30 - 2.00 -		- 1.30 - - - -	C*143	79 21 0	NI 70 120		Weak to medium strong very thinly bedded yellowish grey SANDSTONE. Fractures are subhorizontal, subvertical and 20° very closely and closely spaced planar rough. (TSG)	- - - - -	-	
	10C	2.00 -		1.30	0 143	100 52 24						• • •
26/03/15				_ - - -						-		
1700hrs 0.40m 27/03/15 0840hrs	11C	3.50 - 3.50 -		3.20	C*83	97 31 13	NA 20 90 190		Very stiff reddish brown slightly sandy clayey SILT with frequent angular medium and coarse gravel sized extremely weak siltstone lithorelicts. (TSG)	3.30	7.70	× ×
0.60m							190 NI 20 50		Weak very thinly bedded locally cross bedded reddish brown and greenish grey fine and medium SANDSTONE. Fractures are subhorizontal and 20° very closely and closely spaced planar rough. (TSG) 3.90 - 4.00m: Hard thinly laminated reddish brown slightly	4.20	7.15	• • •
	12C	5.00 -	5.70	- - - 3.20		100 20 20	NI		Sandy clayey silt. Weak locally extremely weak very thinly bedded reddish brown and grey fine and medium SANDSTONE. Fractures are extremely closely and very closely spaced	5.20	6.15	• •
				_		-	30		subhorizontal, 20°, 50°, 70° and subvertical undulating rough. Locally non intact. (TSG)	5.55	5.80	
	13C	5.70 -	7.00	3.20		100 68 24	120		Extremely weak thinly laminated reddish brown MUDSTONE. Non intact. (TSG) Very weak locally strong very thinly bedded reddish brown	- - -		
				- - - - - - -					locally greenish grey fine and medium SANDSTONE. Fractures are subhorizontal, 20°, 70° and subvertical very closely and closely spaced undulating and planar rough. (TSG)	- - - - - - -		• • • • • • • • • • • • • • • • • • • •
	14C	7.00 -	8.50	3.20		97 59 31	40 90 240		Weak very thinly bedded reddish brown and greenish grey fine and medium SANDSTONE. Fractures are	7.40	3.95	• • • • • • • • • • • • • • • • • • • •
				E					subhorizontal, 50°, 70° and subvertical very closely and Continued Next Page	{8.00}		::

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.00m. Dynamic sampled (113mm) 1.00-1.30m. Waterflush rotary core drilled (116mm) 1.30-11.50m.

CASING: 140mm diam to 3.20m.

BACKFILL: On completion, a slotted standpipe (50mm) was installed to 11.50m, granular response zone 11.50-2.00m, bentonite seal 2.00-0.30m, concrete and raised helmet cover 0.30-0.00m.

REMARKS: Driller noted reduced flush returns 1.30-5.70m (60-80% returned) and loss of flush 5.70-11.50m.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered prior to use of water flush.



CONTRACT

CHECKED

30238 EC

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

SITE M4 CORRIDOR AROUND NEWPORT Sheet 2 of 2

1:50

Start Date 26 March 2014 341628.8 Scale Easting

End Date	30	March 201	5		North	ning	18	37002.9 Ground level 11.35mOD	Depth	1	1.50 m
progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	If	instru -ment		depth (m)	reduced level (m)	legend
	15C	8.50 - 8.90	3.20		75			closely spaced planar rough. (TSG) 8.05 - 8.10m: Cross bedded.	8.65	2.70	• • • •
	16C	8.90 - 10.00	3.20		75 30 30 91 7 0	100 NI 40 90		Medium strong reddish brown (80% clast supported) subangular and subrounded fine and medium gravel sized clasts of mudstone and sandstone CONGLOMERATE.	8.75 <u> </u>	2.60	× ×
27/03/15 1630hrs 6.30m			- - - - - - -		100			Extremely weak to weak thinly interbedded reddish brown and greenish grey MUDSTONE and SANDSTONE locally with clay infill (up to 5mm) along subhorizontal fractures. Fractures are subhorizontal, 70° and subvertical extremely closely and very closely spaced undulating and planar	- - - - -		× × · · · · · · · · · · · · · · · · · ·
30/03/15 0840hrs 6.90m	17C	10.00 - 11.00	- 3.20 - - - - -		100 38 0	20 70 95		rough. Locally non intact. (TSG) Weak thinly laminated reddish brown locally greenish grey SILTSTONE. Fractures are subhorizontal, subvertical and 50° very closely and closely spaced undulating rough.	10.30	1.05	× × × × × × × × × × × × × × × × × × ×
30/03/15 1310hrs	18C	11.00 - 11.50	3.20		100 18 0	20 30 50		(TSG) Medium strong greenish grey medium and coarse	11.15 -	0.20	× × × × × × × × × × × × × × × × × × ×
6.80m			- - - -			50		SANDSTONE. Fractures are 20° and 80° very closely spaced undulating rough. (TSG) Borehole completed at 11.50m.	11.50	-0.15	• • • •
			- - - -					·	- - - -		
			_ _ _ _						-		
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			- - - -						=		
			- - - -						-		
water strike	(m) casi	ng (m) rose t	o (m) ti	me to ris	e (m)	rema	arks	AGS CONTR	(18.00) RACT	CHE	CKED
	. ,	,	. , .		. ,		undwat	er not encountered prior to use of water 3023			C

Geotechnical Engineering Ltd, Tel. 01452 527743 30238 YODA, GPJ TRIALJH, GPJ GEOTECH, GLB 16/07/2015 16:11:46 STP

EC

A2 Appendix 2

Tabulated Gas and Groundwater Monitoring

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH539	24/03/15 10:30:00	1016	2								0.4	7		10 litres purged, base depth 3.00m.
BH539	24/03/15 10:31:00										0.0			3.00m.
BH539	24/03/15 10:32:00										0.0			
BH539	24/03/15 10:33:00										0.0			
BH539	24/03/15 10:34:00										0.0			
BH539	24/03/15 10:35:00			0.0	0.0	20.1	0.0	0	0	0.4				
BH539	24/03/15 10:36:00			0.0	0.0	20.0	0.0	0	0	0.2				
BH539	24/03/15 10:37:00			0.0	0.0	20.0	0.0	0	0	0.1				Upsurge at 3min 20sec. Unable obtain further readings.
BH539	24/03/15 10:44:00												0.56	obtain further readings.
BH539	31/03/15 11:00:00	1017	-0.78								0.0	11		10 litres purged, base depth 3.00m.
BH539	31/03/15 11:01:00										0.0			3.0011.
BH539	31/03/15 11:02:00										0.0			
BH539	31/03/15 11:03:00										0.0			
BH539	31/03/15 11:04:00										0.0			
BH539	31/03/15 11:05:00			0.0	0.0	20.9	0.0	0	0	2.7				
BH539	31/03/15 11:06:00			0.0	0.0	20.9	0.0	0	0	2.6				
BH539	31/03/15 11:07:00			0.0	0.0	20.9	0.0	0	0	2.5				Upsurge at 3min 20sec. Unable obtain further readings.
BH539	31/03/15 11:14:00												0.71	ostan futuro reduingo.
remarks	esult exceeding capacity													CONTRACT CHECKE

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene. Shallow install.

30238

EC

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
)										0.0			8 litres purged, base depth 3.00m
)										0.0			
)										0.0			
)			0.4	0.1	20.2	1.0	0	1	4.7				
)			0.4	0.1	20.2	1.0	0	0	4.7				
)			0.3	0.1	20.2	1.0	0	0	4.4				Upsurge at 3min 20sec. Unable to obtain further readings.
)												1.06	obtain further readings.
)	1019	-0.75								0.0	12		
)										0.0			
)	1002	7								1.6	15		
)										1.2			
)										1.2			
)										2.1			
)										1.6			
)			0.0	0.0	20.3	0.0	0	0	0.0				
)			0.0	0.0	20.2	0.0	0	0	0.0				
)			0.0	0.0	20.2	0.0	0	0	0.0				
)			0.0	0.0	20.2	0.0	0	0	0.0				
)			0.0	0.0	20.2	0.0	0	0		0.0	0.0	0.0	0.0

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Shallow install.

CONTRACT 30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

M4 CORRIDOR AROUND NEWPORT SITE:



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remark	KS.
BH539	08/05/15 15:02:00			0.0	0.0	20.2	0.0	0	0	0.0					
BH539	08/05/15 15:03:00			0.0	0.0	20.2	0.0	0	0	0.0					
BH539	08/05/15 15:04:00			0.0	0.0	20.2	0.0	0	0	0.0					
BH539	08/05/15 15:05:00			0.0	0.0	20.1	0.0	0	0	0.0					
BH539	08/05/15 15:06:00			0.0	0.0	20.1	0.0	0	0	0.0					
BH539	08/05/15 15:07:00			0.0	0.0	20.1	0.0	0	0	0.0					
BH539	08/05/15 15:08:00												2.03		
remarks	esult exceeding canacity of						l	I	I		I			CONTRACT	CHECKE

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene. Shallow install.

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GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks	
BH539 BH539 BH539	24/03/15 10:44:00 31/03/15 11:14:00 16/04/15 09:14:00 08/05/15 15:09:00												1.09 1.23 1.65 3.39	77 litres purged, base depth 14.00m. 76 litres purged, base depth 14.00m. 74 litres purged, base depth 14.00m.	h
remarks														CONTRACT CHE	

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Deep install.

CONTRACT 30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH541	31/03/15 13:00:00	1016	-0.49								0.0	14		28 litres purged, base depth
BH541	31/03/15 13:01:00										0.0			11.50m.
BH541	31/03/15 13:02:00										0.0			
BH541	31/03/15 13:03:00										0.0			
BH541	31/03/15 13:04:00										0.0			
BH541	31/03/15 13:05:00			0.3	0.0	20.1	0.0	0	64	4.2				
BH541	31/03/15 13:06:00			0.3	0.0	20.1	0.0	0	63	3.7				
BH541	31/03/15 13:07:00			0.3	0.0	20.0	0.0	0	62	3.1				
BH541	31/03/15 13:08:00			0.3	0.0	19.9	0.0	0	61	2.3				
BH541	31/03/15 13:09:00			0.3	0.0	19.9	0.0	0	61	2.6				
BH541	31/03/15 13:10:00			0.3	0.0	19.8	0.0	0	60	2.3				
BH541	31/03/15 13:11:00			0.3	0.0	19.8	0.0	0	58	2.1				
BH541	31/03/15 13:12:00			0.3	0.0	19.9	0.0	0	57	2.1				
BH541	31/03/15 13:13:00			0.3	0.0	20.0	0.0	0	55	1.9				
BH541	31/03/15 13:14:00			0.3	0.0	20.2	0.0	0	52	1.8			6.67	
BH541	16/04/15 14:15:00	1014	0.11								0.0	18		28 litres purged, base depth
BH541	16/04/15 14:16:00										0.0			11.50m.
BH541	16/04/15 14:17:00										0.0			

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

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GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
3H541	16/04/15 14:18:00										0.0			
BH541	16/04/15 14:19:00										0.0			
BH541	16/04/15 14:20:00			0.8	0.1	19.5	2.0	0	1	6.0				
BH541	16/04/15 14:21:00			0.8	0.1	19.4	2.0	0	1	5.3				
BH541	16/04/15 14:22:00			0.9	0.1	19.4	2.0	0	1	4.4				
BH541	16/04/15 14:23:00			0.9	0.1	19.4	2.0	0	0	4.1				
BH541	16/04/15 14:24:00			0.9	0.1	19.4	2.0	0	1	3.7				
3H541	16/04/15 14:25:00			0.9	0.1	19.4	2.0	0	1	3.4				
BH541	16/04/15 14:26:00			0.9	0.1	19.3	2.0	0	1	3.2				
3H541	16/04/15 14:27:00			1.0	0.1	19.3	2.0	0	1	3.0				
BH541	16/04/15 14:28:00			1.0	0.1	19.2	2.0	0	1	2.7				
3H541	16/04/15 14:29:00			1.0	0.1	19.2	2.0	0	0	2.6			6.73	
3H541	21/04/15 11:00:00	1038	-0.81								0.0	13		28 litres purged, base depth 11.50m.
3H541	21/04/15 11:01:00										0.0			11.50m.
BH541	21/04/15 11:02:00										0.0			
BH541	21/04/15 11:03:00										0.0			
BH541	21/04/15 11:04:00										0.0			
3H541	21/04/15 11:05:00			0.0	0.1	20.7	1.0	0	0	3.6				

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

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GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarl	(S
BH541	21/04/15 11:06:00			0.0	0.1	20.7	1.0	0	0	3.1					
BH541	21/04/15 11:07:00			0.0	0.1	20.7	1.0	0	0	2.8					
BH541	21/04/15 11:08:00			0.1	0.1	20.6	1.0	0	0	2.7					
BH541	21/04/15 11:09:00			0.2	0.1	20.5	1.0	0	0	2.5					
BH541	21/04/15 11:10:00			0.4	0.1	20.4	1.0	0	0	2.3					
BH541	21/04/15 11:11:00			0.6	0.1	20.3	1.0	0	0	2.1					
BH541	21/04/15 11:12:00			0.6	0.1	20.2	1.0	0	0	2.1					
BH541	21/04/15 11:13:00			0.7	0.1	20.2	1.0	0	0	2.0					
BH541	21/04/15 11:14:00			0.7	0.1	20.2	1.0	0	0	1.9			6.71		
BH541	11/05/15 10:24:00	1017	0								0.0	15			
BH541	11/05/15 10:25:00										0.0				
BH541	11/05/15 10:26:00										0.0				
BH541	11/05/15 10:27:00										0.0				
BH541	11/05/15 10:28:00										0.0				
BH541	11/05/15 10:29:00			0.0	0.0	20.1	0.0	0	0	0.0					
BH541	11/05/15 10:30:00			0.0	0.0	20.1	1.3	0	0	0.0					
BH541	11/05/15 10:31:00			0.0	0.0	20.1	7.0	0	0	0.0					
BH541	11/05/15 10:32:00			0.0	0.0	20.1	10.3	0	0	0.0					
emarks													T	CONTRACT	CHECK

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

30238

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GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

M4 CORRIDOR AROUND NEWPORT SITE:



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remar	rks
BH541	11/05/15 10:33:00			0.0	0.0	20.1	12.9	0	0	0.0					
BH541	11/05/15 10:34:00			0.0	0.0	20.1	15.0	0	0	0.0					
BH541	11/05/15 10:35:00			0.0	0.0	20.1	15.4	0	0	0.0					
BH541	11/05/15 10:36:00			0.0	0.0	20.1	18.9	0	0	0.0					
BH541	11/05/15 10:37:00			0.0	0.0	20.0	11.2	0	0	0.0					
BH541	11/05/15 10:38:00			0.0	0.0	20.0	0.0	0	0	0.0					
BH541	11/05/15 10:39:00												8.15	11.5	
remarks														CONTRACT	TOUEOVED

remarks

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT 30238

NORWEST HOLST SOIL ENGINEERING LTD.

M4 RELIEF ROAD MAGOR TO CASTLETON STAGE 2

PIEZOMETER RECORDS BHM6

DATE	TIME(24hr)	WATER LEVEL(m)	WATER LEVEL mOD
15/11/97	14:00	3.52	7.53
25/11/97	15:25	3.17	7.88
02/12/97	11:00	1.67	9.38
10/12/97	14:30	1.86	9.19
16/12/97	15:35	1.93	9.12

TIP DEPTH: 6.53m

TYPE OF COVER:BARREL

HEIGHT OF COVER A.B.G.L:0.22m

HEIGHT OF PIPE A.B.G.L:0.14m

COMMENTS:

A3 Appendix 3

Tabulated Groundwater Laboratory Data

M4CAN
Groundwater Sample Analysis & Screening Assessment
CL-29

Geolo	gical Formation Legend
HD	Head
TS	Tintern Sandstone Formation

Monitoring Round		Screening	g Criteria		1		2		3	1	2	3
Location Location Type Response Zone (RZ) Details	Huite			BH539 HD	BH539 TS	BH539 E N/A	BH539 BH N/A	BH539 N/A	BH539 N/A	BH541 TS	BH541 BH TS	BH541 TS
Depth Installation Details	Units	EQS	DWS	1.97 Shallow	3.57 Deep	2.1 N/A	2.84 N/A	1.49 N/A	3.04 N/A	6.67	6.73	6.72
Date sampled Metals				24/03	/2015	31/03	3/2015	16/04	/2015	31/03/2015	16/04/2015	21/04/2015
Arsenic Boron Cadmium	ug/l ug/l ug/l	50 2000 0.15	10 1000 5	2 820 <0.08	<1 760 <0.08	3.2 160 <0.08	3.4 78 <0.08	1.9 1000 <0.08	<1 960 <0.08	1.9 800 <0.08	<1 1000 <0.08	25 140 <0.08
Chromium Copper	ug/I ug/I	10	50 2000	3.3 <1	6.6 1.9	25 16	33 21	1.8	2.4 <1	26 9.9	2.3	14 8.1
Lead Mercury Nickel	ug/l ug/l ug/l	0.07 4	10 1 20	<1 0.65	<1 1.3 6.2	<0.5 6.3	<0.5 2.3	<1 <0.5 3.3	<1 <0.5 1.3	<0.5 1.4	<1 <0.5 <1	<0.5 2.6
Selenium Zinc	ug/l ug/l	75	10	1.5	4	2.9	3.1 7.6	1 2.5	2.7	1.3	1.4	3.9 2.9
Non-Metal Inorganics Total Alkalinity as CaCO3 Chloride	mg/l mg/l	250	250	510 32	460 70	230	280 73	330 25	250 70	210 13	240 14	800 620
Ammoniacal Nitrogen as N Total Cyanide	mg/l mg/l	0.6 0.001	0.05	0.45 <0.05	0.23 <0.05	0.78 <0.05	0.17 <0.05	0.41 <0.05	0.041 <0.05	0 <0.05	0.054 <0.05	1.4
Free Cyanide pH Value Phenols	mg/l pH units	6-9	6.5-10	<0.05 7.7	<0.05 7.8	<0.05 7.8	<0.05 7.9	<0.05 8.4	<0.05 8.6	<0.05 8.1	<0.05 8.6	<0.05 8.3
Phenol Phenols	ug/l mg/l	7.7 0.0077		0.03	<0.03	<0.5 <0.03	<0.5 <0.03	<0.5 <0.03	<0.5 <0.03	<0.5 <0.03	<0.5 <0.03	<0.03
Benzene Toluene	ug/l ug/l	10 50	1	<1 <1	<1	<1 <1	<1	<1 <1	<1 <1	<1	<1	<1 <1
Ethyl benzene m & p Xylene	ug/l ug/l	20 30		<1	<1	<1 <1	<1 <1	<1 <1	<1 <1	<1 <1	<1	<1
o Xylene TPH Aliphatics C5-C6	ug/l ug/l	30		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aliphatics >C6-C8 Aliphatics >C8-C10	ug/I ug/I			<0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <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 Aliphatics >C12-C16 Aliphatics >C16-C21	ug/l ug/l 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 <0.1 <0.1	<0.1 <0.1 <0.1
Aliphatics >C21-C35 Aliphatics >C35-44 Aromatics >C5-C7	ug/l 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	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1
Aromatics >C7-C8 Aromatics >EC8-EC10	ug/l ug/l 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
Aromatics >EC10-EC12 Aromatics >EC12-EC16 Aromatics >EC16-EC21	ug/l ug/l 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	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1
Aromatics >EC21-EC35 Aromatics >C35-44	ug/I ug/I			<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<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 Aliphatic TPH Total Aromatic TPH Total petroleum hydrocarbons	ug/l ug/l ug/l			<5 <5 <10	<5 <5 <10	<5 <5 <10	<5 <5 <10	<5 <5 <10	<5 <5 <10	<5 <5 <10	<5 <5 <10	<5 <5 <10
PAH Acenaphthene	ug/I			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene Anthracene Benz(a)anthracene	ug/l ug/l 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 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1
Benzo(a)pyrene Benzo(b)fluoranthene	ug/l ug/l	0.00017	0.01	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1
Benzo(ghi)perylene Benzo(k)fluoranthene Chrysene	ug/l ug/l ug/l	0.0082	0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1
Dibenzo(ah)anthracene Fluoranthene	ug/l ug/l	0.0063		<0.1 <0.1	<0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1	<0.1 <0.1
Fluorene Indeno(123cd)pyrene Naphthalene	ug/l ug/l ug/l	N/A 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 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1
Phenanthrene Pyrene PAH 16 Total	ug/l ug/l ug/l			<0.1 <0.1 <2	<0.1 <0.1 <2	<0.1 <0.1 <2	<0.1 <0.1 <2	<0.1 <0.1 <2	<0.1 <0.1 <2	<0.1 <0.1 <2	<0.1 <0.1 <2	<0.1 <0.1 <2
VOCs 1,1,1,2-Tetrachloroethane	ug/I			₹2	₹2	<2	<2	<2	<2	<2	<2	ξ2
1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane	ug/l ug/l ug/l	100 400				<1 <10 <1	<1 <10 <1	<1 <10 <1	<1 <10 <1	<1 <10 <1	<1 <10 <1	-
1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene	ug/I ug/I ug/I					<1 <1	<1	<1 <1 <1	<1 <1 <1	<1	<1	
1,2,3-Trichlorobenzene 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene	ug/l ug/l ug/l	0.4				<2 <50 <1	<2 <50 <1	<2 <50 <1	<2 <50 <1	<2 <50 <1	<2 <50 <1	-
1,2,4-Trimethylbenzene 1,2-Dibromo-3-Chloropropane	ug/I ug/I	0.4				<1 <50	<1 <50	<1 <50	<1 <50	<1 <50	<1 <50	
1,2-Dibromoethane 1,2-Dichlorobenzene 1,2-Dichloroethane	ug/l ug/l ug/l	20	3			<5 <1 <2	<5 <1 <2	<5 <1 <2	<5 <1 <2	<5 <1 <2	<5 <1 <2	
1,2-Dichloropropane 1,3,5-Trimethylbenzene	ug/I ug/I	10	,			<1 <1	<1 <1	<1 <1	<1 <1	<1	<1 <1	
1,3-Dichloropropane 1,4-Dichlorobenzene 2-Chlorotoluene	ug/l ug/l ug/l	20				<2 <1 <1	<2 <1 <1	<2 <1 <1	<2 <1 <1	<2 <1 <1	<1 <1	
4-Chlorotoluene 4-Isopropyltoluene	ug/l ug/l					<1 <1	<1 <1	<1 <1	<1 <1	<1 <1	<1	
Benzene Bromobenzene Bromochloromethane	ug/l ug/l ug/l	10	100	<1	<1	<1 <1 <5	<1 <1 <5	<1 <1 <5	<1 <1 <5	<1 <1 <5	<1 <1 <5	<1
Bromodichloromethane Bromomethane	ug/I ug/I					<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	
Chlorobenzene Chloroethane Chloroethene	ug/l ug/l ug/l					<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	
Chloroform Chloromethane cis-1,2-Dichloroethene	ug/l ug/l	2.5	100			<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	
cis-1,3-Dichloropropene Dibromochloromethane	ug/l ug/l ug/l		100			<10 <10	<10 <10	<10 <10	<10 <10	<10 <10	<10 <10	
Dibromomethane Dichlorodifluoromethane Ethylbenzene	ug/l ug/l ug/l	20		<1	<1	<10 <1 <1	<10 <1 <1	<10 <1 <1	<10 <1 <1	<10 <1 <1	<10 <1 <1	<1
Hexachlorobutadiene (HCBD) Isopropylbenzene	ug/l ug/l	0.6				<1 <1	<1 <1	<1 <1	<1 <1	<1	<1 <1	
m,p xylenes Methyl tert-butyl ether (MTBE) n-Butylbenzene	ug/l ug/l ug/l	30		<1	<1	<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	<1
n-propylbenzene O-Xylene	ug/l ug/l	30		<1	<1	<1 <1	<1 <1	<1 <1	<1 <1	<1 <1	<1	<1
Sec-Butylbenzene Styrene Tert-Butylbenzene	ug/l ug/l ug/l	50				<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	
Tetrachloroethene Tetrachloromethane (Carbon Tetra Chloride)	ug/I ug/I	10 12	10 3			<1 <1	<1 <1	<1 <1	<1 <1	<1 <1	<1	
Toluene trans-1,2-Dichloroethene trans-1,3-Dichloropropene	ug/l ug/l ug/l	50		<1	<1	<1 <1 <10	<1 <1 <10	<1 <1 <10	<1 <1 <10	<1 <1 <10	<1 <1 <10	<1
Tribromomethane Trichloroethene Trichlorofluoromethane	ug/l ug/l ug/l	10	100 10			<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	
SVOCs 1,3-Dichlorobenzene	ug/I	20				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dichlorophenol	ug/l ug/l ug/l	20				<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<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 2,4-Dinitrotoluene	ug/l 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	
2,6-Dinitrotoluene 2-Chloronaphthalene 2-Chlorophenol	ug/l ug/l ug/l	50				<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<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-Methyl-4,6-Dinitrophenol 2-Methylnaphthalene	ug/l 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	
2-Methylphenol 2-Nitroaniline 2-Nitrophenol	ug/l ug/l ug/l	100	_			<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<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-Nitroaniline 4-Bromophenyl Phenyl Ether	ug/l ug/l	40				<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-Chloro-3-Methylphenol 4-Chloroaniline 4-Chlorophenyl Phenyl Ether	ug/l ug/l ug/l	40				<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<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 4-Nitroaniline	ug/l ug/l	100				<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<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 Bis(2-chloroethoxy)methane Bis(2-chloroethyl)ether	ug/l ug/l 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	
Bis(2-chloroisopropyl)ether Bis(2-ethylhexyl)phthalate Butylbenzylphthalate	ug/l ug/l ug/l	1.3				<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	
Carbazole Dibenzofuran	ug/l 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	
Diethylphthalate Dimethylphthalate Di-N-Butyl Phthalate	ug/l ug/l ug/l	200 800 8				<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	
Di-N-Octyl Phthalate Hexachlorobenzene (HCB)	ug/I ug/I	20				<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	
Hexachlorocyclopentadiene Hexachloroethane Isophorone	ug/l ug/l 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	
Nitrobenzene n-nitrosodimethylamine	ug/l 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	
N-Nitroso-Di-N-Propylamine Pentachlorophenol (PCP) Phenol	ug/l ug/l ug/l	0.4 7.7				<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	
PCBs Pcb-101 2,2',4,5,5' - Pentachlorobiphenyl Pcb-118 2,3',4,4',5 - Pentachlorobiphenyl	ug/l							<0.01	<0.01	<0.01 <0.01	<0.01 <0.01	
Pcb-138 2,2',3,4,4',5' - Hexachlorobiphenyl Pcb-153 2,2',4,4',5,5' - Hexachlorobiphenyl	ug/l ug/l ug/l							<0.01 <0.01	<0.01	<0.01 <0.01	<0.01 <0.01	
Pcb-180 2,2',3,4,4',5,5' - Heptachlorobiphenyl Pcb-28 2,4,4' - Trichlororbiphenyl	ug/l ug/l							<0.01 <0.01	<0.01 <0.01	<0.01 <0.01	<0.01 <0.01	-
Pcb-52 2,2',5,5' - Tetrachlorobiphenyl	ug/l					1	1	<0.01	<0.01	<0.01	<0.01	

Screening Values & Assessment

EQS Environmental Quality Standards

DWS Drinking Water Standard

Exceeds EQS

X Exceeds DWS

X Laboratory detection level higher than screening criterion

Notes

Offsite horsehole location

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	No. Data Exceeding EQS	No. Data Exceeding D
9	6	25 1000	1.9 78	BH541 @ 6.72mbGL BH539 @ 1.49mbGL	0	1 0
9 9	0 9 5	None > LOD 33 21	None > LOD 1.8 1.9	BH539 @ 2.84mbGL BH539 @ 2.84mbGL	2	0 0
9 9	0 2 8	None > LOD 1.3 7	None > LOD 0.65 1.3	BH539 @ 3.57mbGL BH539 @ 1.97mbGL	2 3	0 1 0
9	9	4 7.6	1 1.1	BH539 @ 3.57mbGL BH539 @ 2.84mbGL	0	0
9	9	800 620	210 13	BH541 @ 6.72mbGL BH541 @ 6.72mbGL	1	1
9 9	9 0 0	1.4 None > LOD	0 None > LOD	BH541 @ 6.72mbGL	0	0
9	9	None > LOD 8.6	None > LOD 7.7	BH539 @ 3.04mbGL	0	0
9	0	None > LOD 0.03	None > LOD 0.03	BH539 @ 1.97mbGL	0	
9	0	None > LOD None > LOD	None > LOD None > LOD		0	0
9 6 9	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0 0	
9	0	None > LOD None > LOD				
9 9	0 0	None > LOD None > LOD None > LOD				
9 9	0	None > LOD None > LOD	None > LOD None > LOD			
9 9 9	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD			
9 9	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			
9 9	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD			
9	0	None > LOD None > LOD	None > LOD None > LOD			
9	0	None > LOD				
9	0 0	None > LOD None > LOD	None > LOD None > LOD		0	
9	0	None > LOD None > LOD None > LOD	None > LOD		0	0
9 9 9	0 0	None > LOD None > LOD None > LOD	None > LOD		0	0
9 9	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
9	0	None > LOD None > LOD	None > LOD None > LOD		0	0
9 9	0 0	None > LOD None > LOD None > LOD	None > LOD			
6	0	None > LOD None > LOD	None > LOD None > LOD		0	
6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD		0	
6 6	0	None > LOD None > LOD	None > LOD None > LOD		0	
6 6	0 0	None > LOD None > LOD None > LOD			0	
6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
6	0	None > LOD None > LOD	None > LOD None > LOD		0	0
6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			
9 6 6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	0
6	0	None > LOD None > LOD	None > LOD None > LOD			Ů
6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			
6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	0
6 6	0 0 0	None > LOD None > LOD None > LOD	None > LOD			0
6 9	0	None > LOD None > LOD	None > LOD None > LOD		0	
6 9	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
6 6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			
9 6	0 0	None > LOD None > LOD	None > LOD None > LOD		0	
6	0	None > LOD None > LOD None > LOD			0	0
6 9 6	0 0	None > LOD None > LOD None > LOD			0	0
6 6	0 0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	0
6	0	None > LOD	None > LOD		0	
6	0	None > LOD None > LOD	None > LOD None > LOD			
6 6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
6 6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
6	0 0	None > LOD None > LOD None > LOD		-	0	
6 6	0 0	None > LOD None > LOD				
6	0	None > LOD None > LOD None > LOD	None > LOD None > LOD		0	
6 6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
6 6	0 0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			
6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD	-	0	
6	0	None > LOD None > LOD	None > LOD None > LOD		0	
6 6	0 0	None > LOD None > LOD None > LOD	None > LOD		0	
6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD	-	0 0	
6	0	None > LOD None > LOD	None > LOD None > LOD		U	
6 6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD			
6 6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD		0	
4	0	None > LOD	None > LOD			
4 4	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD			
4	0	None > LOD None > LOD None > LOD		-		

A4 Appendix 4

Site Walkover Photographs



Plate 01: CL29 - View looking south



Plate 02: CL29 - View looking north

Welsh Government

Project: M4CaN

Job Ref: JER6591 Checked By:

Dáte: May 2015



Plate 01: CL29 - View looking west

Client: Welsh Government

Project: M4CaN

Job Ref: JER6591 Checked By: Date: May 2015

A5 Appendix 5

Relevant Extract of Additional Environmental Data



Plate 01: Extract of 1991 Aerial Photograph showing disturbed ground and stored materials.



Plate 02: Extract of 2006 Aerial Photograph showing disturbed ground and stored materials.

Client:	weish Government

Project: M4CaN

Job Ref: JER6591 Checked By: Date: Oct 2015

Welsh Government

M4 Corridor around Newport

Land Contamination Assessment Report Annex D CL-30 Green Moor Quarry Landfill Land Contamination Assessment Report

M4CaN-DJV-EGT-ZG_GEN-RP_EN-0032

At Issue | March 2016

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Appendices

Appendix 1 Exploratory Records
 Appendix 2 Tabulated Gas and Groundwater Monitoring
 Appendix 3 Tabulated Groundwater Laboratory Data
 Appendix 4 Site Walkover Photographs

1 Introduction

1.1 Background

- **1.1.1** This report relates to an area of land potentially affected by contamination (CL-30) known as the 'Green Moor Quarry Landfill' herein referred to as the 'Site'.
- **1.1.2** The Site is located between chainage 20,100 and 20,225 (see Figure 1), upon an infilled quarry.

1.2 Reporting Context

- 1.2.1 The Site has been assessed as part of ground investigations and monitoring associated with the wider works for the M4 Corridor around Newport (M4CaN) (hereafter referred to as the 'Scheme'). This report informs the baseline for the environmental impact assessment (EIA) for the Scheme. The EIA is reported in the M4CaN Environmental Statement (ES) of which this document is an appendix to the chapter on Geology and Soils.
- In 2014, a Preliminary Sources Study Report (PSSR) was prepared as an initial land contamination appraisal (Ove Arup & Partners, 2014) as part of Design Manual for Roads and Bridges (DMRB) Stage 2 Assessments for a number of potential routes. This identified a number of individual areas that may have been affected by contamination as a result of historical activities at the Site. In addition, this report draws upon the 2015 Supplementary Ground Investigation Works undertaken on behalf of the Welsh Government (Geotechnical Engineering, 2015). This report relates to the area defined in the Site Plan shown in Figure 1.
- 1.2.3 The overarching rationale and approach for the assessment of areas of land along the Scheme with potential contamination is detailed in the Land Contamination Assessment Report (Appendix 11.1 of the ES).

1.3 Objectives

- **1.3.1** The key objectives of this report are set out below:
 - Undertake a risk assessment of the Site and determine whether potential risks to human health or controlled waters could exist based upon the Scheme.
 - Identify the need for further assessment and investigation in order to refine potential land contamination risks and inform the need for remediation/mitigation.
 - To provide information to support the Ground Investigation Report (GIR) and Geotechnical Design Report (GDR) required under DMRB HD22/08 (Highways Agency, 2008).

1.4 Report Structure

1.4.1 The subsequent report structure is as follows:

- Section 2: Site Location and Description This section summarises the Site's description.
- Section 3: The Scheme This section details the new section of motorway alignment and associated features at the Site.
- Section 4: Site History This section summarises the history of the Site based on historical maps and historical land photographs.
- Section 5: Environmental Setting This section summarises the Site description, published geology, hydrology and hydrogeology and any relevant environmental information presented in the 2014 PSSR.
- Section 6: Scope of Investigations This section describes the previous and supplementary ground investigation data available for the Site.
- Section 7: Ground Conditions This section describes the main findings of the intrusive site investigation including the ground conditions encountered and visual or olfactory evidence of contamination identified.
- Section 8: Contamination Assessment This section describes the findings of the Tier 1 and Tier 2 contamination risk assessment based upon potential contamination sources, potential receptors and potential contaminant linkages and presents the human health and controlled waters assessments.
- Section 9: Refined Conceptual Site Model This section presents the Conceptual Site Model (CSM) for the Site and identifies potential contaminant linkages, based upon the findings of the data presented within Sections 2 to 7.
- Section 10: Conclusions and Recommendations This section provides conclusions concerning the likelihood of land contamination associated with the Site affecting the Scheme and requirements for remediation/mitigation.
- Section 11: References This section details the key reference documents referred to within the text.
- Section 12: Glossary This section details the key terms and acronyms used throughout the report.

2 Site Location and Description Setting

- 2.1.1 The Site is located south of Magor, centred at National Grid Reference (NGR) ST 417 870. The Site comprises an area of in-filled quarry, the location of which is shown on Figure 1.
- 2.1.2 Review of aerial photography and walkover surveys undertaken in 2014 and 2015 indicated that the Site forms part of a field. The field slopes gently southwards from approximately 20 to 10 m AOD towards the South Wales to London Mainline, which is positioned within a cut (at some 8 m AOD) and delineates the southern extent of the Site. A brewery is located approximately 150 m north of the Site and residential dwellings at Magor are approximately 100 m to the east.
- 2.1.3 Underground pipework with a visible chamber in the south of the Site, (understood to be part of effluent treatment drainage from the brewery), runs north-south directly through the Site. The hamlet of Barecroft Common occupies the northern edge of the Caldicot Levels directly to the south of the railway line.
- **2.1.4** The Site's southern boundary with the railway line comprises a soil embankment.
- **2.1.5** Photographs of the Site are included in Appendix 4

3 The Scheme

- **3.1.1** The Site is located between approximate chainage 20,100 to 20,225 as shown in Figure 1.
- 3.1.2 The new section of motorway crosses the northern half of the Site and includes a 10 m high embankment which crosses the north-western part of the Site. A bridge over the South Wales to London Mainline is located approximately 60 m to the north. The remainder of the Site is excluded from the temporary and permanent land take.

4 Site History

- 4.1.1 The 2014 PSSR historical searches have been based on Ordnance Survey plans, literature reviews, information provided by British Steel, Natural Resources Wales (NRW) (formally Environment Agency Wales), Newport City Council and aerial photographic interpretation.
- **4.1.2** This is supplemented by a review of historical maps obtained in 2015 from Welsh Government. No relevant additional information has been identified from this review.
- **4.1.3** A summary of the Site's history is presented in Table 1 below.

Table 1: Site History

Date	Use	Source of Information
1843 - 1893	·	1:10,560 Historical Mapping
1891 - 1912	II no ()IIarry is now marked as '()Id ()IIarry indicating its distise	1:10,560 Historical Mapping
1904 - 1939	No significant change.	1:10.560 Historical Mapping
1964 - 1965	INO SIANIICANI CHANAD	1:10,560 Historical Mapping
1969	The area of the quarry appears to have been infilled.	Aerial Photography
1969 - 1971		1:10,560 Historical Mapping
1981	The pond appears to have been infilled, however the image is not clear.	Aerial Photography
1985 - 1996		Mapping
2006	There is an area of rough vegetation indicated in the south-west corner.	Aerial Photography
2009 - 2010	No significant change.	Aerial Photography
2014	The housing development of Magor to the east has been developed to within approximately 100 m of the Site.	Aerial Photography

Notes. Potential sources of contamination are <u>underlined</u>. Those within the temporary and permanent land take are shown in **bold**.

4.1.4 Historically the site is located in proximity to areas which may have been bombed during World War II which is discussed in the Explosive Ordnance Threat Assessment Report (Bactec, 2014). This report categorises the site as low risk with respect to unexploded ordnance.

5 Environmental Setting

5.1 Geology

5.1.1 British Geological Survey (BGS) data indicate that the Site is underlain by the bedrock of the Tintern Sandstone Formation. There are no superficial deposits in the southern area of the Site, however, River Terrace Deposits are shown to be present within the northern section of the Site.

5.2 Hydrology

5.2.1 There are no surface water features on Site. To the south of the South Wales to London Mainline railway there are a number of drainage ditches and reens, the nearest of which is located approximately 60 m to the south.

5.3 Hydrogeology

- **5.3.1** NRW classifies the River Terrace Deposits as a Secondary A Aquifer and the bedrock as a Principal Aquifer.
- **5.3.2** The Site does not lie within a groundwater Source Protection Zone (SPZ).

5.4 Environmental Information

- 5.4.1 NRW records do not identify any pollution incidents, sewage discharge consents, abstraction licences or any waste management facilities as located on or within 300 m of the Site.
- 5.4.2 The CL-29 Spoil Heap site (Annex D of Appendix 11.1 of the ES) is located 85 m to the west of the Site. This is small material stockpile which is not considered to represent a likely offsite source of potential contamination relative to the Site.

6 Scope of Investigations

6.1 General

6.1.1 No previous intrusive ground investigations have been undertaken at this Site. However a number of exploratory holes were advanced within 100 m of the Site. These have been considered in order to support an understanding of ground conditions beneath the Site and inform the groundwater quality and gas regime if relevant.

6.2 Scope of Works

6.2.1 The intrusive ground investigations undertaken in the vicinity of the Site are summarised in Table 2.

Table 2: Investigation Summary (off site)

Date	Contractor	Boreholes	Location from Site	Sampling
		ВНМ6	100 m west	Groundwater level
1997	Norwest Holst	BHM7	120 m north	No monitoring well installed.
2015		BH539	130 m south-west	Groundwater level,
	Geotechnical Engineering Limited	BH540	110 m west	sampling
		BH541	60 m west	Ground gas (BH540 no monitoring well
		BH542	120 m north	installed)

- 6.2.2 Boreholes BH539 and BH541 are also considered within the CL-29 Spoil Heap site (Annex D of Appendix 11.1 of the ES).
- 6.2.3 The construction details of the above offsite boreholes are summarised in Table 3 below.

Table 3: Summary of Offsite Borehole Construction Details

Borehole ID	Diameter (mm)	Total Drilled Depth (m)	Top of Slotted Well Casing / Gravel Pack (m bGL)	Base of Slotted Well Casing / Gravel Pack (m bGL)	Targeted Geology
BHM6	Unknown	10.0	5	7.5	Tintern Sandstone
BH539	35	14.2	1	3	Head Deposits
ынэээ	50	14.2	5	14.2	Tintern Sandstone
BH541	50	11.5	2	11.5	Tintern Sandstone
BH542	35	16	1	4	Tintern Sandstone
	50		10	16	Tintern Sandstone

6.3 Surface Water Quality Sampling

6.3.1 Surface water quality monitoring was not undertaken during the previous ground investigations of the Site.

6.4 Field Testing

Photo Ionisation Detector (PID) monitoring for Volatile Organic Compounds (VOCs) was not undertaken in any of the selected offsite boreholes during the previous ground investigations.

6.5 Groundwater Monitoring

6.5.1 A summary of the groundwater sampling, groundwater monitoring and ground gas monitoring rounds is shown in Table 4.

Table 4: Summary of Monitoring Rounds (offsite)

Location Ref. (Borehole Diameter)	Number of Rounds (Date of Sampling)	Monitoring Details	Notes
ВНМ6	5 no. 15 th November 1997, 25 th November 1997, 2 nd December 1997, 10 th December 1997, 16 th December 1997	Groundwater level	
BH539 (35mm) BH539 (50mm)	4 no. 24 th March 2015, 31 st March 2015, 16 th April 2015, 8 th May 2015	Groundwater level and sampling Ground Gas	Gas monitoring in 35 mm shallow installation only
BH541 (50mm)	4 no. 31 st March 2015, 16 th April 2015, 21 st April 2015, 11 th May 2015	Groundwater level and sampling Ground Gas	
BH542 (35mm) BH542 (50mm)	3 no. 24 th March 2015, 31 st March 2015, 16 th April 2015	Groundwater level Ground Gas	Gas monitoring in 35 mm shallow installation only

6.6 Laboratory Chemical Testing

6.6.1 A summary of all laboratory analysis undertaken on groundwater offsite is shown in Table 5.

Table 5: Summary of Previous Investigation Sampling (offsite)

Site Investigation Date	No. of Soil Samples	No. of Leachate Samples	No. of Water Samples	Suites of Testing
1997	N/A	N/A	-	
2015	N/A	0	9	Metals, PAH, TPH, pH, cyanide, PCBs, VOCs, SVOCs, BTEX, phenols, inorganics

Soil Analysis

6.6.2 Chemical analytical soil data was not collected during previous ground investigations at the Site.

Soil Leaching Analysis

6.6.3 Chemical analytical leachate data was not collected during previous ground investigations at the Site.

Groundwater Analysis

- The following section summarise the laboratory analytical results for groundwater samples collected during the 2015 ground investigation within the selected offsite boreholes. The available data set has been tabulated and is presented in Appendix 3 with supporting laboratory certificates available in the relevant original report (Geotechnical Engineering, 2015).
- 6.6.5 The available data relate to samples taken from wells installed within the groundwater of the Superficial Deposits and Tintern Sandstone Formation deposits.
- **6.6.6** The available information is summarised in Table 6.

Table 6: Summary of Analytical Groundwater Data (offsite)

Groundwater Unit	Number of Groundwater Analyses per Analytical Suites (Number of Well Locations) – 2015 Data								
Offic	Metals & Inorganics	PAH	ТРН	Phenol	BTEX	SVOCs	VOCs	PCBs	
Perched Groundwater (Superficial Deposits)	3 (1)	3 (1)	3 (1)	3 (1)	3 (1)	2 (1)	2 (1)	1 (1)	
Groundwater (Tintern Sandstone Formation)	6 (2)	6 (2)	6 (2)	6 (2)	6 (2)	4 (2)	4 (2)	3 (2)	

6.7 Gap Analysis of Available Data

6.7.1 There is no ground investigation data available for the Site; as such no chemical analysis data are available and therefore, no quantitative risk assessment can be undertaken.

7 Ground Conditions

7.1 Geology

7.1.1 The geological logs for all available exploratory holes excavated on or in close proximity to the Site are provided in Appendix 1. The observed geological sequence is consistent with that discussed in the 2014 PSSR report and is summarised in the following sections. Information from the Supplementary Ground Investigation (Geotechnical Engineering, 2015) has also been used.

Topsoil

7.1.2 Topsoil was encountered in two exploratory locations to depths of 0.1 - 0.4 m bGL.

Made Ground

7.1.3 Made Ground was not encountered during the previous ground investigations.

Superficial Deposits

- 7.1.4 Unconsolidated superficial deposits were encountered beneath the topsoil. These comprised predominantly sand and gravel, encountered to 0.5 1.3 m bGL. Whilst the field records identify this as 'Head Deposits', it is believed they represent the River Terrace Deposits in line with BGS records.
- 7.1.5 In borehole (BH539) a thin veneer of Tidal Flat Deposits to 2.35 m bGL was recorded. This was encountered as very soft clay. This would indicate that the formation extends further north than indicated by the published geological data. However, the Tidal Flat Deposits are not anticipated to underlie the Site.

Bedrock

7.1.6 Beneath the superficial deposits the Tintern Sandstone Formation was encountered. This typically comprised sandstone with interbedded thin mudstones/marls.

Geological Sequence Summary

7.1.7 The general geological sequence identified during the previous ground investigations at closest vicinity to the Site is summarised in Table 7.

Table 7: Summary of Geological Sequence

Unit	Description	Thickness Range (m)	Basal Depth (m bGL)
Made Ground	Unknown	Unproven	Unproven
River Terrace Deposits	Clayey sandstone gravel or cobbles. Slightly gravelly sand.	Absent*- 1.3*	Absent*-1.3*
Tintern Sandstone	Bedded sandstone. Horizons of clay/silt/conglomerate. Interbedded mudstone and sandstone	>9.39* - >19.6*	Unproven*

Note: * inferred from offsite exploratory holes.

7.1.8 The solid geology beneath the Site is anticipated to be similar to that detailed above although the rockhead is likely to be at a lower elevation given the historical quarrying process. The overlying superficial deposits (Head and/or Tidal Flat Deposits) if formerly present, are likely to have been removed and Made Ground of unknown thickness and composition is likely to overlay the Tintern Sandstone. The Site is currently used as a grazing field and it is assumed a layer of topsoil is present across the Site.

7.2 Visual and Olfactory Evidence of Contamination

7.2.1 No records are available for the Site.

7.3 Gas Monitoring (Off Site)

- **7.3.1** The gas monitoring dataset collected during each of the previous monitoring rounds at the offsite boreholes is summarised on the field data sheets provided in Appendix 2. The maximum ground gas concentrations are presented in Table 8.
- **7.3.2** Boreholes BH539 and BH541 have also been considered during the assessment of the gas regime for CL-29 Spoil Heap site (Annex D of Appendix 11.1 of the ES), located approximately 85 m to the west.

Table 8: Summary of Gas Monitoring Data (offsite)

Location ID (Borehole Diameter)	Flow (I/hr) Max.	VOCs (ppm) Max.	CH₄ (%/vol) Max.	Peak LEL (%) Max.	CO ₂ (%/vol) Max.	O ₂ (%/vol) Min.	CO (ppm) Max.	H ₂ S (ppm) Max.
BH539 (35 mm)	2.1	4.7	0.1	1.0	0.4	20	1.0	0.0
BH541	0.0	6.0	0.1	18.9	1.0	19.2	64	0.0
BH542 (35 mm)	0.2	14.6	0.1	2.0	6.6	0.2	13	0.0

7.4 Groundwater

Groundwater Encountered During Investigation (offsite)

7.4.1 A water strike was encountered during the advancement of the offsite boreholes BHM6 during the 1997 investigation and BH539 during the 2015 investigation, as detailed on the geological logs provided in Appendix 1. This together with additional water level information provided by the exploratory borehole records is summarised below in Table 9.

Table 9: Summary of Groundwater Level Data During Investigation (offsite)

Location	Strike Depth (m bGL)	Geological Formation	Level after 20 minutes (m bGL)	Comments	
BH539	1.2	Tidal Flat Deposits	1.0		
BHM6	6.5	Tintern Sandstone	0.0 (log start time taken to rise is 0)	Uncertain on the accuracy of the recorded resting level	

7.4.2 Groundwater was not encountered in any other offsite boreholes during the previous ground investigations.

Groundwater Level Dataset (offsite)

7.4.3 The groundwater level dataset gathered from the selected boreholes offsite is provided in Appendix 2 and summarised in Table 10.

Table 10: Summary of Groundwater Level During Monitoring Rounds (offsite)

Location	Installation	Depth of response zone (m bGL) and Geological Formation	No. Measurements	Minimum Depth (m bGL)	Maximum Depth (m bGL)	Comments
ВНМ6	Unknown	5 – 7.5 (Tintern Sandstone formation)	5	1.67	3.52	
BH539	35 mm	1 – 3 (Tidal Flat Deposits)	3	0.56	1.06	
	50 mm	5 – 14.2 (Tintern Sandstone formation)	3	1.09	1.65	
BH541	50 mm	2 – 11.5 (Tintern Sandstone formation)	4	6.67	8.15	
BH542	50 mm	10 -16 (Tintern Sandstone formation)	3	Dry	Dry	

Groundwater Summary

- **7.4.4** The main groundwater body present is anticipated to be within the Tintern Sandstone, with variable resting levels recorded in between monitoring visits.
- **7.4.5** The Tintern Sandstone formation is considered to be in hydraulic continuity with the groundwater within the Head Deposits.
- **7.4.6** The offsite boreholes are considered to be up gradient to the Site based on a general groundwater flow south-eastwards (Appendix 16.2 of the ES).

8 Contamination Assessment

8.1 Introduction

- **8.1.1** The following sections provide details of the assessment of land contamination at the Site.
- 8.1.2 The Conceptual Site Model (CSM) presented within the 2014 PSSR has been reviewed and updated based on data from the Supplementary Ground Investigation (Geotechnical Engineering, 2015) and the revised design of the Scheme. The main alterations to the 2014 PSSR model are summarised as follows:
 - addition of ground, groundwater and gas datasets from nearby boreholes;
 - consideration of revised land use post construction;
 - · removal of surface water receptor; and
 - update of the source-pathway-receptor linkages taking into account the above, and more detailed assessments.

8.2 Preliminary Risk Assessments

Potential Sources

- **8.2.1** The potential sources of contamination and associated contaminants which may be present within the Site are detailed below.
 - Infill materials of an unknown nature, potentially comprising waste deposited between the late 1960s and early 1980s.
 - Considering the age of the infill materials ground gas and leachate production may still be occurring.
 - Groundwater and surface water potentially impacted by landfill leachate.

Potential Receptors

8.2.2 Receptors during the construction and the operational stages of the Scheme that have been considered are as follows.

Construction

- Construction workers during Site development works.
- General public adjacent to construction works including existing A4180 and railway users and residents located within 100 m of the Site.
- Groundwater within the superficial deposits and/or within the Tintern Sandstone formation.

Operational

- General public end users.
- Site neighbours adjacent to areas of permanent land take.
- Maintenance workers.

Groundwater (principal aquifer) within the bedrock.

Potential Pathways

- **8.2.3** Pathways during the construction and the operational stages of the Scheme that have been considered are as follows.
 - Dermal contact, ingestion, inhalation pathways of potentially contaminated soils possible during construction works and maintenance works.
 - Dermal contact, ingestion, inhalation pathways possible for general offsite public.
 - Leaching of contaminants from the infill material into underlying groundwater aquifer.
 - Vertical or lateral migration of potential ground gases associated with infill material.

8.3 Risk Evaluation

- 8.3.1 Source-pathway-receptor linkages were considered in the 2014 PSSR using the historical data available up to 2008. With review of the other new data described herein, the following risk evaluation has been reconsidered and includes the below.
 - The Site has been subject to backfilling of an unknown material.
 - The proposed 13 m high embankment will encapsulate or remove any contaminated infill materials within its footprint. This will reduce or remove exposure linkages to motorway users and maintenance workers. However, the landfill extends beyond permanent and temporary land take (outside embankment) and any potential linkages will remain.
 - Motorway users will be within an open environment with no proposed structures or other confined spaces. Pathways linkages to M4 users during its operation are therefore limited to air born dust.
 - Bedrock directly beneath the Site is classified as a principal aquifer.
 - Hardstanding cover which is proposed in some areas of the new motorway corridor is likely to limit infiltration thus reducing leaching in these areas.
 - The nearest surface water feature is located 60 m to the south, over the railway line. As such it is considered there is no reasonable pathway between the Site and surface water feature.
 - No onsite investigation has been undertaken.
 - No significant abnormal ground gas regime has been identified in the offsite boreholes.

8.4 Human Health Risk Assessment

8.4.1 No investigation, sampling or analysis was undertaken onsite during the previous investigations and therefore no human health (Tier 2) screening assessment can be undertaken.

8.5 Controlled Waters Screening Assessment

- 8.5.1 The rationale and approach for the controlled waters (Tier 1) screening assessment is detailed in the Land Contamination Assessment Report (Appendix 11.1 of the ES) and the groundwater chemical results are presented in Appendix 3. No soil leachate or surface water data is available. All exceedances of relevant generic criteria are summarised in Table 11 for groundwater.
- Where an Environmental Quality Standard (EQS) is dependent on water hardness, i.e. some heavy metals, the hardness of the surface water receptor should normally be used. The Groundwater Baseline Report (Appendix 16.2 of the ES) indicates surface water to be generally moderately hard with hardness concentrations within a range of 100 to 150 mg/l (reported as calcium carbonate). Therefore EQSs within this water hardness range have been used for screening purposes.

Groundwater Results (offsite)

- 8.5.3 In the absence of onsite data and for the purpose of this report, nearby available groundwater analytical data has been considered. This data was included to help identify the local groundwater quality within the vicinity of the Site in order to identify any obvious contamination fingerprint that could be associated with potential contamination from the Site itself.
- 8.5.4 The groundwater analysis results include data from three rounds of groundwater monitoring results from offsite boreholes, BH541 and BH539, undertaken in 2015. The groundwater samples were taken from the aquifer body within the Tintern Sandstone formation and the perched groundwater within the Head Deposits.
- 8.5.5 A summary of exceedances with respect to the screening criteria is presented in Table 11 and discussed below.

Determinand	Units	Range	EQS	DWS	No. Exceeded Screening Criteria (Total Number of Results) Against EQS	Location of Exceedance	No. Exceeded Screening Criteria (Total Number of Results) Against DWS	Location of Exceedance
Perched Groundwater								
Copper	ug/l	<1 - 21	10	2000	1 (3)	BH539	-	-
Mercury	ug/l	0.65	0.07	1	1 (3)	BH539	-	-
Nickel	ug/l	2.3 - 7	4	20	1 (3)	BH539	-	-
Phenols	ug/l	<0.03 - 0.03	0.007 7	-	1 (3)	BH539	-	-
Aquifer								
Arsenic	ug/l	<1 - 25	50	10	-	-	1 (6)	BH541
Copper	ug/l	<1 - 16	10	2000	1 (6)	BH539	-	-
Mercury	ug/l	<0.5 - 1.3	0.07	1	1 (6)	BH539	1 (6)	BH539
Nickel	ug/l	<1 - 6.3	4	20	2 (6)	BH539 (x2)	-	-
Chloride	mg/l	13 - 620	250	250	1 (6)	BH541	1 (6)	BH541
Ammoniacal Nitrogen	mg/l	<0.01 - 1.4	0.6	-	2 (6)	BH539, BH541	-	-

Table 11: Controlled Waters Screening Exceedances - Groundwater (offsite)

- **8.5.6** Review of the groundwater chemical testing results indicated that the deep groundwater offsite has elevated levels of metals (arsenic, copper, mercury and nickel) and inorganics (chloride and ammoniacal nitrogen).
- 8.5.7 The perched groundwater within the Head Deposits is shown to be impacted by metals (copper, mercury and nickel) and phenols.
- 8.5.8 All PAH, VOCs, SVOCs, phenols, BTEX, TPH and PCB results were found below their respective limits of detection within both water bodies.
- **8.5.9** It is noted that the laboratory detection levels for mercury, cyanide, some PAH compounds, VOCs and SVOCs are higher than the applied screening criterion.

8.6 Ground Gas Risk Assessment

- 8.6.1 The only ground gas data available relates to offsite boreholes BH539, BH541 and BH542. These boreholes have response zones screened within the Head Deposits (between 1 and 3 m bGL) and within the Tintern Sandstone Formation (between 2 and 11.5 m bGL and between 1 and 4 m bGL), respectively. Of the four gas monitoring rounds available for BH539 and BH541 and the three rounds for BH542, the following comments below have been made:
 - No monitoring was undertaken during low barometric pressure (less than 1000 mb), with the lowest conditions being 1010 mb. As such worst case

- atmospheric conditions for potential ground gas generation may have not been monitored.
- Gas flow was generally recorded as absent with the exception of the second round for BH539, with a peak of 2.1 l/hr, and the second round for BH542 with a peak of 0.2 l/hr.
- Methane has been recorded as nil or up to 0.1 % during all four rounds in all three boreholes which is below the initial screening criteria of 1 %. However, the Lower Explosion Limit of up to 18.9 % in BH541 is noted. Given the lack of correlation between methane concentration per volume and per LEL, it is considered these marginal readings to be caused by equipment inaccuracy rather than representative of the presence of actual methane gas. Further monitoring is recommended to confirm gas regime.
- Carbon dioxide is identified between 0 and 1 %, below the screening criteria
 of 5 % in BH539 and BH541. However, in BH542 carbon dioxide is identified
 in concentrations up to 6.6 %, above that of the screening criteria.
- Traces of Volatile Organic Compounds of up to 6 ppm have been recorded in BH539 and BH541. BH542 records VOCs of up to 14.6 ppm.
- Hydrogen sulphide was undetected throughout all monitoring rounds.
- Carbon monoxide was recorded as generally absent on all rounds for BH539. BH542 recorded up to 13 ppm. The first round for BH541 identified a maximum of up to 64 ppm, falling to 1 ppm on the second round and nil on the following two rounds. The maximum recorded concentration is above the screening criteria of 30 ppm. Given the obvious falling trend and absence of obvious source, this is considered to be likely caused by the well installation works rather indicative of carbon monoxide flux within the soils.
- Oxygen has been recorded at ambient levels with concentrations between 19.2 and 20.7 % in BH539 and BH541. It is recorded at low concentrations of between 0.2 and 11.4 % in BH542.
- **8.6.2** On the basis of the above, offsite boreholes have not identified obvious ground gas sources.
- 8.6.3 A gas risk assessment has been undertaken and is set out within the Land Contamination Assessment Report (Appendix 11.1 of the ES). Given the lack of any significant gas source being identified, a summary of potential causes of abnormal gas concentrations is provided below:
 - elevated CO concentrations may be attributed to ambient vehicle emissions;
 - depleted O₂ levels may be the result of natural biological activity;
 - low level VOCs may be considered naturally occurring.
- 8.6.4 The gas regime and nature of the backfill materials within the Site remain unknown and ground investigation to include ground gas monitoring is recommended to confirm possible risks.

8.7 **Summary**

- 8.7.1 The quality of the perched groundwater within the Head Deposits and the aquifer within the sandstone are similar and are shown to have been impacted by metals and inorganics (data from within 100 m from the Site).
- 8.7.2 A Linkage between the perched groundwater and the aquifer within the Tintern Sandstone formation is inferred.
- 8.7.3 The quality in these groundwater bodies are representative of the general baseline conditions seen in this area of Newport as defined within the Baseline Water Environment Report (RPS, 2015). Although no obvious impacts from the Site are identified, the monitoring points are considered to be located upgradient and therefore, may not provide a clear line of evidence. Ground investigation within the Site is recommended to verify possible risks.
- 8.7.4 Offsite boreholes screened within the Head Deposits and Tintern Sandstone Formation have indicated no obvious ground gas source however gas data from the previous ground investigations is not available for the Site itself.

9 Refined Conceptual Site Model

- **9.1.1** The incorporation of data from the 2015 Supplementary Ground Investigation has enabled the original CSM presented in the 2014 PSSR to be updated. The assessment is based on the Scheme during construction and operational phases.
- 9.1.2 A CSM representing general ground conditions, overall Scheme layout and relevant source-pathway-receptors (each of which having a specific alphanumerical symbol attached) is presented in Figure 2 and is described in Table 12.

Table 12: Site Conceptual Model

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
	Construction					
		Direct dermal (1)	Likely	Moderate	Moderate	Construction workers may be exposed to the infill materials during Site construction works; however exposure duration will be short term only. Use of PPE and good hygiene practice throughout earthworks and construction phase is considered
		Ingestion (3)	Likely	Moderate	Moderate	sufficient to mitigate risks presented. Current land contamination status at the Site is unknown but not foreseen to
Quarry in-fill materials. Details not known	Construction Workers (C)	Inhalation of soil dust (2)	Likely	Moderate	Moderate	represent abnormal constraints to construction worker's health and safety over and above those typical of a brownfield Site. Dust suppression measures are recommended during construction works. Construction workers may be exposed to ground gas potentially generated by the quarry in-fill materials during the
		Inhalation of ground gas or vapour (2)	Likely	Moderate	Moderate	excavation and ground improvement works. No onsite ground gas data is available. Gas monitoring from nearby offsite boreholes indicates the presence of low concentrations of VOCs and occasional slightly elevated carbon dioxide, with no obvious gas source identified. Ground investigation, ground gas monitoring and soil testing is required to confirm the characteristics of the infill materials and their associated risks.

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
		Dermal contact with soil dust (1)	Low	Moderate	Moderate to low	Current land contamination status at the Site is unknown.
		Ingestion of soil dust (3)	Low	Moderate	Moderate to low	During construction there is the possibility of Site neighbours/general public inhaling soil dust. Short term exposure only.
	Offsite users / Barecroft Common residents (B)	Inhalation of soil dust (2)	Low	Moderate	Moderate to low	Dust suppression measures are recommended during construction works. Potential for lateral gas migration through bedrock. Ground investigation, ground gas
		Inhalation of ground gas or vapour (2)	Low	Moderate	Moderate to low	monitoring and soil testing is required to confirm the characteristic of the infill materials and their associated risks.
	Groundwater (Principal Aquifer) (Da)	Leaching/migration of contaminants from backfill materials to groundwater (4)	Low likelihood	Moderate	Moderate to low	The elevation of the quarry base in relation to the water table is unknown and therefore there is a risk of the infill materials being within the groundwater zone. During the embankment construction there is a risk for potential contaminants to be mobilised and migrate to groundwater. Ground improvement techniques may be used to improve geotechnical properties of the infill material. Taking care not to create new/increase vertical pathways. Foundation works risk assessment would be required on confirmation of ground improvement method. Ground investigation is required to confirm the characteristics of the infill materials and their associated risks.
Onsite	Operational					
Quarry in-fill materials.	Maintenance	Direct dermal contact (1)	Low	Low	Very low	Current land contamination status at the
Details not known	Workers (C)	Ingestion (3)	Low	Low	Very low	Site is unknown. Infill material within the footprint of the

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
		Inhalation of soil dust (2)	Low	Low	Very low	embankment will be encapsulated and therefore the exposure to contamination will be limited outside of the motorway embankment (outside land take). Areas outside the motorway hardstanding are likely to have topsoil cover and vegetation establishment, reducing the potential for exposure. Exposure duration will be short term only. Site specific risk assessments will be required in line with health and safety guidance. This will enable safe methodologies and appropriate levels of PPE to be put in place. As such all significant risks will be duly considered and suitably mitigated. Additional investigation and soil testing is required to confirm the characteristics of the infill materials and their associated risks. Current contamination status is not foreseen to represent abnormal constraints to maintenance worker's health and safety over and above those typical of a brownfield site.
		Inhalation of ground gas or vapours (2)	Low	Low	Very low	No onsite ground gas data is available. Gas monitoring from nearby offsite boreholes indicates the presence of low concentrations of VOCs and carbon dioxide, with no obvious gas source identified. Additional investigation and soil testing required to confirm the characteristic of the infill materials and associated risks.

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
		Direct Dermal contact (1)	Unlikely	Low	Very low	Current land contamination status at the Site is unknown. Infill material within Scheme footprint to be encapsulated by the embankment and therefore the exposure to contamination
	Future Motorway users (A) & Offsite users / Barecroft Common residents) (B)	Ingestion (3)	Unlikely	Low	Very low	will be limited outside the motorway embankment. Areas outside embankment also outside permanent land take. Dermal, inhalation and ingestion pathways
		Inhalation of soil dust (2)	Unlikely	Low	Very low	associated to soil dust only. Areas outside the motorway hardstanding are likely to have topsoil cover and vegetation establishment, reducing the potential for exposure. Off site receptors are located some 100 m from the proposed earthworks. offsite
	Future Motorway users (A)	Inhalation of ground gas or vapours (2)	Low	Low	Very low	No onsite ground gas data is available. Gas monitoring from nearby offsite boreholes indicates the presence of low concentrations of VOCs and carbon dioxide, possibly generated by the infill materials. Motorway end users to be within open space. Proposed 13 m high embankment and limited span over landfill associated with unlikely vertical gas migration. Additional investigation required to confirm the characteristic of the infill materials and associated risks.

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
	Offsite users / Barecroft Common residents) (B)	Inhalation of ground gas or vapours (2)	Low	Low	Very low	No onsite ground gas data. Gas monitoring from nearby offsite boreholes indicates presence of low concentrations of VOCs and carbon dioxide, possibly generated by the infill materials. Part of the landfill to be capped with embankment possibly increasing lateral ground gas migration. Additional investigation required to confirm the characteristic of the infill materials and associated risks.
	Groundwater - Aquifer (Da) within Tintern Sandstone formation	Leaching/migration (4) of contamination in infill materials	Low likelihood	Moderate	Moderate to low	The elevation of the quarry base in relation to the water table is unknown and therefore, there is a risk of the infill materials being within the groundwater zone. Ground improvement techniques may be used to improve geotechnical properties of the infill material taking care not to create new/increase vertical pathways. Foundation works risk assessment would be required on confirmation of ground improvement method. Ground investigation is required to confirm the characteristics of the infill materials and their associated risks.

10 Conclusions and Recommendations

10.1 Conclusions

- **10.1.1** No previous ground investigations have been undertaken at the Site, however, based on the desk study information, gross contamination is not anticipated.
- **10.1.2** During the construction phase, specific mitigation measures will be required to prevent inhalation pathways of dust to the general public off site and work force receptors, although such measures would be no more than typically expected on a construction site.
- 10.1.3 There is no analytical data specific to the Site that falls within the footprint of the motorway corridor or wider permanent land take.

10.2 Recommendations

- 10.2.1 Given the identified gap in the data and in order to verify the risk levels associated with the Site in relation to construction and operational phases, a scope of ground investigation works is required. Upon completion this report shall be reviewed and updated accordingly once the findings of the additional investigation are made available. The additional investigation will include:
 - advancement of boreholes to collect soil samples;
 - installation of monitoring wells;
 - collection of groundwater samples; and
 - · gas monitoring.
- 10.2.2 Upon review and assessment of the recommended ground investigation information, any contamination identified that could cause an unacceptable risk to the identified receptors will require appropriate remedial mitigation measures to be implemented. These measures would be identified within a remedial strategy for the Scheme. The remediation strategy is anticipated to include, but is not limited to:
 - Addressing uncertain human health and controlled waters risk identified by the proposed ground investigation.
 - Risk assessment relating to ground improvement creating pathways enabling contaminants to enter surface water courses.
 - Dealing with unexpected contamination.
 - Control measures (over and above good practice construction management) to prevent risks to construction workers and the general public during construction.
 - Verification of material used as topsoil for suitability of use.
- The remediation strategy should include a remediation options appraisal, remediation implementation plan and remediation verification plan. The remediation strategy should be supported by a Scheme wide Material Management Plan prepared in accordance with CL:AIRE Code of Practice (CL:AIRE, 2011).

11 References

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12 Glossary

BF Blast Furnace

BGS British Geological Survey

BOD Biochemical Oxygen Demand

BOS Basic Oxygen Slag

BTEX Benzene, Toluene, Ethylbenzene and Xylene

CAT Cable Avoidance Tool

CDM Construction Design Management

CH₄ Methane

CLEA Contaminated Land Exposure Assessment

CO₂ Carbon Dioxide

CO Carbon Monoxide

COD Chemical Oxygen Demand

CSM Conceptual Site Model

DMRB Design Manual for Roads and Bridges

DO Dissolved Oxygen

DQRA Detailed Quantitative Risk Assessment

DWS Drinking Water Standard

EC Electrical Conductivity

EIA Environmental Impact Assessment

ES Environmental Statement

ESG Environmental Scientifics Group

EQS Environmental Quality Standard

FTIR Fourier Transform Infrared (spectroscopy)

GAC Generic Assessment Criteria

GDR Geotechnical Design Report

GIR Ground Investigation Report

GRO Gasoline Range Organics

LEL Lower Explosive Limit

LOD Limit of Detection

mAOD Metres Above Ordnance Datum

mb Millibars

mbGL Metres below Ground Level

MTBE Methyl Tert-butyl Ether

NRW Natural Resources Wales

ORP Oxidation Reduction Potential

O₂ Oxygen

OS Ordnance Survey

PAH Polycyclic Aromatic Hydrocarbon

PCB Polychlorinated Biphenyl

PCSM Preliminary Conceptual Site Model

PID Photo Ionisation Detector

PPE Personnel Protection Equipment

SGVs Soil Guideline Values

SSAC Site Specific Assessment Criteria

SSSI Site of Special Scientific Interest

SVOCs Semi-Volatile Organic Compounds

TOC Total Organic Carbon

TPH Total Petroleum Hydrocarbon

TPH CWG Total Petroleum Hydrocarbon Criteria Working Group

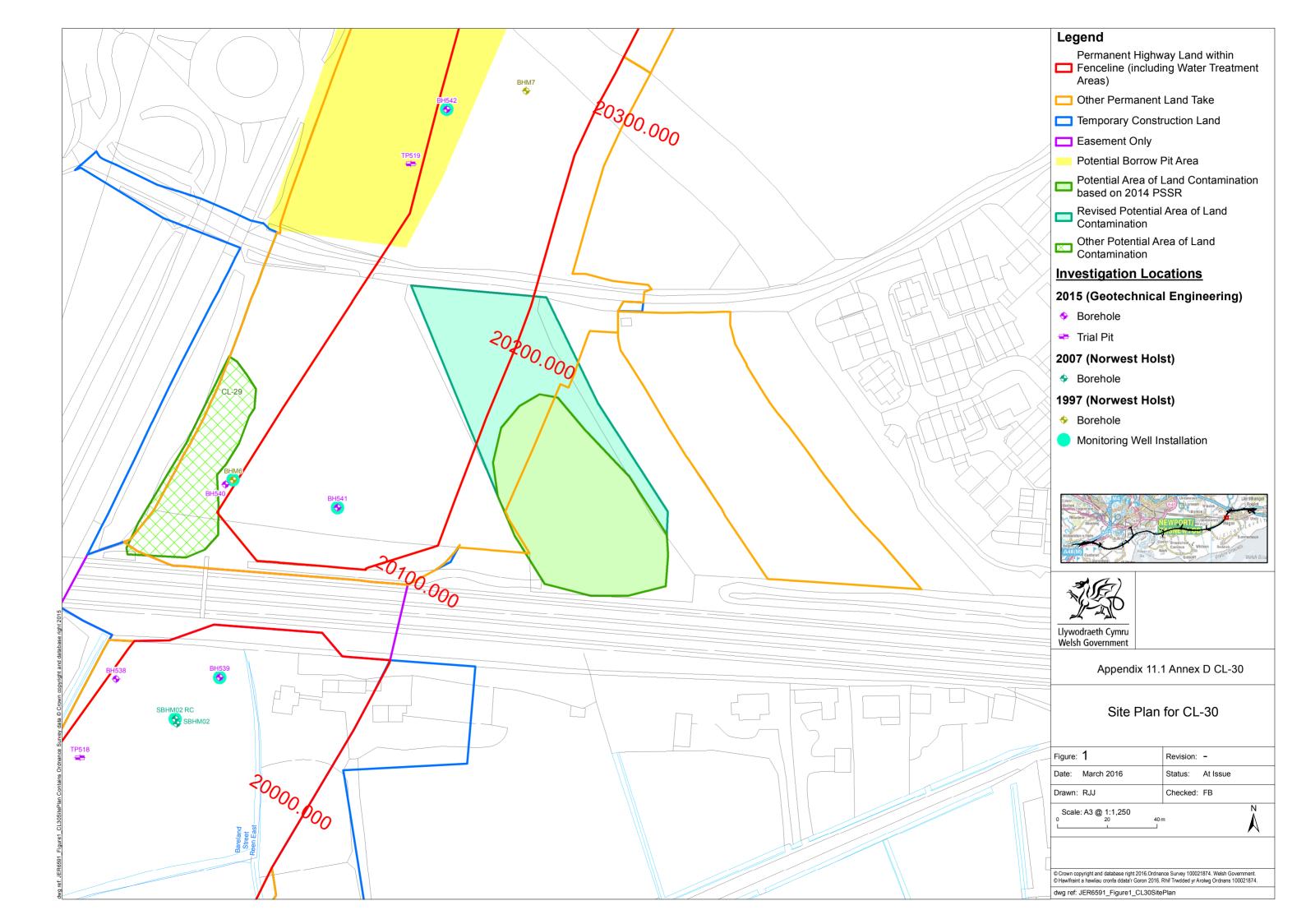
UKAS United Kingdom Accreditation Service

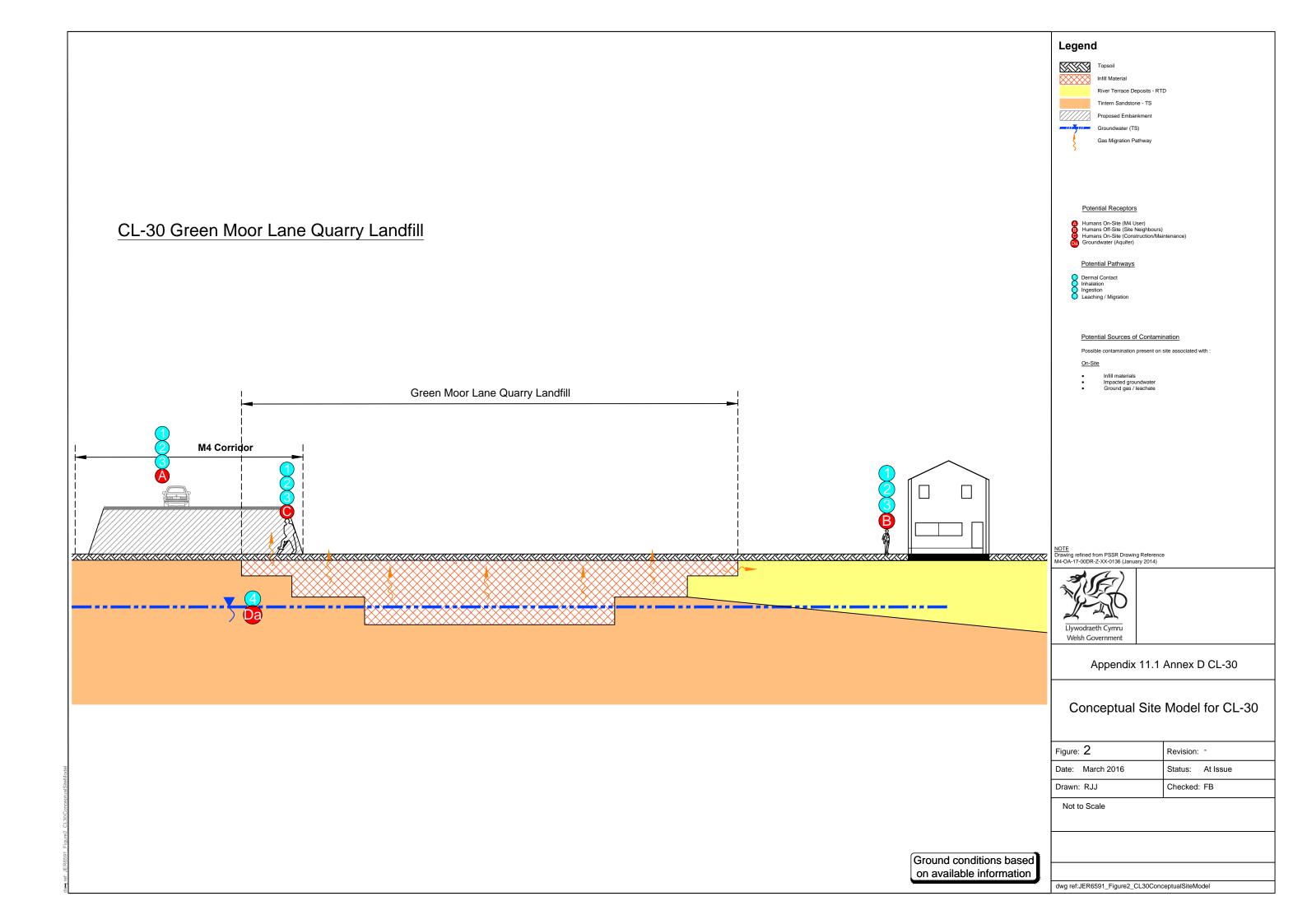
VOCs Volatile Organic Compounds

WFD Water Framework Directive

UXO Unexploded Ordnance Survey

Figures





Appendices

Appendix 1

Exploratory Records



Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Borehole No.

BHM₆

Header

Contract No.

F10895

M4 Relief Road Magor to

Castleton Stage 2

Method **Drilling Rig** Rotary Coring

Coordinates

341586.8 E

Project

Driller

Knebel 77 E.D

Ground Level

187014.0 N 11.10m AOD

Client

Welsh Office

Logged by Core barrel

T.R/C.D P

Orientation Date Started

Vertical 11/11/1997

Consultant

Ove Arup and Partners

NB All depths in metres, all diameters in millimetres,

water strike rise time in minutes.

Core bit

Saw Tooth

Date Completed

11/11/1997

ROTARY HEADER

2.00

25/06/1997

Form

Version

Revised

		F	ROGRESS			DRIL	LING DET	TAILS	
Date	depun depun depun		From depth	To depth	Flush type	Flush return	Core diameter		
11/11/1997	1800	10.00	2.50	4.21	0.00 2.00	2.00	mist mist	100%	0* 92
						:			

	CASI	NG					WATER	STRIKES			
Hole diameter	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
120	10.00	140	2.50	11/11/1997	0000	6.50	0.00	0		2.50	0.00

GENERAL NOTES			SPT DETAILS	
	Depth	Туре	Incremental blow count/penetration in mm	
	1.00 2.00 3.00 5,60	C	N=25 (5,5,9,8,5,3) 50/15mm (13,12,50) 51/231mm (1,1,11,2,8,30) 50/75mm*	
				;
			· ·	
				:



Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Borehole No.

BHM6 Sheet 1 of 1

1.00

16/09/96

Version

Revised

Contract No.

F10895

M4 Relief Road Magor to

Castleton Stage 2

Client

Consultant

Project

Welsh Office

Ove Arup and Partners

See header sheet for details of drilling, progress and water

strikes. See legend sheet for key to symbols.

Method

Drilling Rig

Driller

E.D

Logged by

Core barrel Core bit

Rotary Coring

Knebel 77

T.R/C.D

Saw Tooth

Ρ

Coordinates

Ground Level

11.10m AOD

Orientation Date Started Vertical 11/11/1997

341586.8 E

187014.0 N

Date Completed 11/11/1997

Description of Strata	Legend	G.L.	O.D. Level	Coring and Sampling	TCR	SCR	RQD	H	SPT N & depth	
TOPSOIL	Q=-ō	0.10	11.00							
Brown sandstone cobbles in CLAY (drillers description). (Head Deposits)		0.61	10.49							
Weathered SANDSTONE clayey (drillers description). (Tintern Sandstone)										1.00
	1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		-						C50/15mm 2	2.00
		2.50	8.60	2.00 2.50	40	0	0	NI		2.17
Greyish green fine to coarse grained thinly to medium sub-horizontally bedded occasionally thinly and thickly			[- [-	2.50 3.00	36	0	0	NI	C51/231mm 3	3.00
laminated SANDSTONE, strong completely fractured. (Tintern Sandstone)		2.50	- 260	3.00 3.50	40	0	0	NI	1	3.38
Reddish brown fine to coarse grained medium sub-horizontally bedded slightly to moderately weathered		3,50	7.60	3.50 4.00	46	10	0	NI		
micaceous SANDSTONE, strong with medium spaced very thin beds of fine gravelly sandstone and closely to medium spaced inclined discontinuities planar rough tight.		:	-	4.00 4.60	92	83	28	4		
(Tintern Sandstone)from 3.50 to 4.00m completely fractured			- - -							
from 4.60 to 4.75m completely fractured			- - - -	4.60 5.60	10	0	0	NI		
from 5.60 to 5.75m completely fractured			-	5.60 6.00	25	0	0	NI	1	5.60
from 6.00 to 6.50m sub-vertical fracture (075°) planar rough tight		6.50	-		100	96	0	5	1	
from 6.50 to 6.75m moderately weathered		6.50	4.60					12		
Reddish brown to greyish green fine to medium grained thinly to medium sub-horizontally bedded slightly to moderately weathered micaceous SANDSTONE, moderately			-	6.50 8.00	100	93	21	_		
strong to strong with closely spaced very thin interbedding of reddish brown mottled grey mudstone with closely to medium spaced sub-horizontal discontinuities	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8.00	3.10			:		6		-X
planar rough tight. (Tintern Sandstone)		5.50								X
from 7.00 to 7.25m sub-vertical fracture (065°) planar rough tight			-	8.00 9.5	10	0 97	79	11		-{_ -{-, -{-, -{-, -{-, -{-, -{-, -{-, -{-
from 7.35 to 7.60m sub-vertical fracture (065°) planar rough tight										-1-1 -1-1 -1-1
SANDSTONE As Sheet 2			- - - -	9.50 10.0	0 90) 80	0	5		-1- -1- -1-
Rotary drilling complete at 10.00 m. B All depths in metres, all diameters in millimetres.		10.00	1.10							



Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Borehole No. BHM₆

Extra Sheet

Project

Client

Consultant

F10895

M4 Relief Road Magor to

Castleton Stage 2

Welsh Office

Ove Arup and Partners

Method Drilling Rig

Driller

E.D Logged by

Core barrel Core bit

Rotary Coring

Knebel 77

T.R/C.D

Saw Tooth

Coordinates

341586.8 E

187014.0 N

Ground Level 11.10m AOD Orientation Vertical Date Started

11/11/1997 Date Completed 11/11/1997

										
Description of Strata	Legend	Depth Below G.L.	O.D. Level	Coring and Sampling	TCR	SCR	RQD	臣	SPT N	Install-
Purple occasionally mottled greyish green fine to coarse grained thinly to medium horizontally bedded fresh to slightly weathered micaceous SANDSTONE, strong with closely to medium spaced discontinuities planar rough tight. (Tintern Sandstone) Rotary drilling complete at 10.00 m.		G.L. 10.00	Level	Sampling	I	S	N N N N N N N N N N N N N N N N N N N		& depth	ation
NB All depths in metres, all diameters in millimetres.					Щ.			L_		

See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

NH ROTARY LOG Version Revised 16/09/96



Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - CABLE PERCUSSION**

Borehole No.

BHM7

Header

Contract No.

F10895

M4 Relief Road Magor to

Method

Cable Percussion

Coordinates

341704.6 E

Castleton Stage 2

Drilling Rig

Pilcon

Ground Level

187170.2 N 23.80m AOD

Client

Project

Welsh Office

Driller Logged by LD C.D Orientation

Vertical

Consultant

Ove Arup and Partners

Date Started

21/10/1997

Date Completed 21/10/1997

		I	PROGRESS			DRILLING DETAILS					
Date	Time Hole Casing Water Remarks					Hardbore from depth	Hardbore to depth	Chiselling hours	Remarks		
21/10/1997	0000	2.60	1.50	Dry		2.30	2.60	1.00			
		:									
1											

	CAS	ING					WATER	STRIKES			
Hole diameter	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at deptli	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
150	2.60	150	1.50	:							
			'		:						
						1					

GENERAL NOTES			SPT DETAILS
	Depth	Туре	ne Incremental blow count/penetration in mm
	1.50 2.30	S	N=73 (5,7,13,15,19,26) 50/50mm*
	i		
			* Seating blows only.

NB All depths in metres, all diameters in millimetres, water strike rise time in minutes, chiselling time in hours.

Form	CP HEADER
Version	2.00
Revised	25/06/1997



Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - CABLE PERCUSSION

Borehole No.

BHM7

Sheet 1 of 1

Contract No.

Project

Client

F10895

M4 Relief Road Magor to Castleton Stage 2 Method Drilling Rig Driller

Logged by

Cable Percussion

Pilcon

I.D C.D Coordinates

341704.6 E 187170.2 N

Ground Level Orientation 23.80m AOD Vertical

Date Started
Date Completed

21/10/1997 21/10/1997

Consultant

Ove Arup and Partners

Welsh Office

Depth O.D. SPT N & SPT type Install-Below Description of Strata Sampling Level (U blows) & depth ation G.L TOPSOIL 0.40 23.40 U 0.50 - 1.00 (62)0.60 23.20 Stiff brown sandy CLAY (drillers description). (River Terrace) Yellowish brown mottled light reddish brown occasionally 1.20 thinly laminated micaceous silty clayey fine and medium SAND. (River Terrace) 1.50 22.30 1.50 S73 В 2.00 1.50 Light yellowish grey brown fine and medium grained thinly laminated highly to completely weathered micaceous silty SANDSTONE, very weak to weak with occasional orange iron 2.20 2.30 S50/50mm⁴ staining along discontinuities. (Tintern Sandstone) 2.60 - 21.20 ---from 2.20m weak Cable Percussion boring complete at 2.60 m.

NB All depths in metres, all diameters in millimetres.

See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

 Form
 NH CP LOG

 Version
 2.00

 Revised
 19/12/1996

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

BH539

SITE M4 CORRIDOR AROUND NEWPORT

Sheet 1 of 2

Start Date 6 March 2015

Easting 341581.4

Scale 1 : 50

End Date 9 March 2015 Northing 186934.6 Ground level 6.35mOD Depth 14.20 m

progress date/time	sample no &	depth (m)	casing depth	test type &	samp. /core	If	instru -ment	description	depth (m)	reduced level	legend
water depth	type	from to	(m)	value	range	'†	-mem	description	(111)	(m)	
06/03/15 0900hrs	1B 2D* 3B 4D*	0.20 - 0.50 0.20 - 0.50 0.50 - 1.00 0.50 - 0.10	-	Vo 0.0 Vo 0.0			/ / /	Grass over very soft reddish brown sandy gravelly CLAY. Gravel is rounded fine and medium quartz. (TFD)	- - - - -		
	5B 6D* 7D 8X 9D*	1.00 - 1.20 1.00 - 1.20 1.20 - 1.65 1.20 - 2.20 1.30 - 1.40	- - Nil	Vo 0.3 S 3					1.60	4.75	
	10D	2.20 - 2.65	_ _ _ _ Nil	S 6				Very soft light brown slightly gravelly very sandy CLAY. Gravel is rounded fine and medium quartz. (TFD)			
	11X 12D*	2.20 - 3.20 2.30 - 2.40	-					_2.20 - 2.35m: Soft. Loose light brown clayey fine SAND. (TSG)	2.35 -	4.00	
			-					Light brown clayey gravelly fine and medium SAND with rare lenses (up to 5mmx5mm) of bluish grey fine sand.	2.75 – 3.10	3.60 3.25	
	13D 14X 15D*	3.20 - 3.65 3.20 - 3.90 3.30 - 3.40	Nil	S 20				Gravel is subrounded fine and medium sandstone. (TSG) Medium dense reddish brown clayey silty fine and medium SAND with rare lenses (up to 5x5mm) of bluish grey sand.	- - - - - -	0.20	
	16D 17C	3.90 - 4.19 3.90 - 4.90	3.90	S*100	89 0			(TSG) 3.90m: Very dense.	- -		
						NA		Bluish grey silty fine and medium SAND. (TSG)	4.40	1.95	× · · · · ×
	18C	4.90 - 5.03 4.90 - 6.40	3.90	C*200	100 0 0	NI		Weak and medium strong bluish grey fine and medium SANDSTONE. Fractures are subhorizontal to 20° and 60-70° extremely closely spaced undulating and stepped smooth. (TSG)	4.80	1.55	• • • • • • • • • • • • • • • • • • • •
	19C	6.40 - 7.90	3.90		100 26 18	50 100 140 NI		Very weak reddish brown fine and medium SANDSTONE. Fractures are subhorizontal to 20° and 70° very closely and closely spaced undulating rough with a veneer of reddish brown clay. (TSG)	6.40	-0.05 -0.45	
			-		-	NI		Reddish brown fine and medium SANDSTONE recovered non intact as slightly clayey sandy angular and subangular and fine to coarse sandstone gravel. (TSG) 7.50m: 20° fracture undulating rough infilled (up to 2mm)	7.50 _	-1.15 -1.50	• • • •
			E			NI		with reddish brown clay. Continued Next Page	7.05 - - - - - - - - - -	-1.50	

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (128mm) 1.20-3.20m, (113mm) 3.20-3.90m. Waterflush rotary core drilled (116mm) 3.90-14.20m.

CASING: 140mm diam to 6.40m.

BACKFILL: On completion, a slotted standpipe (50mm) with geo-sock was installed to 14.00m, granular response zone 14.20-5.00m and bentonite seal 5.00-3.00m. A second slotted standpipe (35mm) with geo-sock was installed to 3.00m, granular response zone 3.00-1.00m, bentonite seal 1.00-0.20m, concrete and stopcock cover 0.20-0.00m.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks
1.20 Nil 1.00 20 CONTRACT
30238 EC

В

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

9 March 2015

2 of 2

14.20 m

EC

SITE M4 CORRIDOR AROUND NEWPORT

> Scale 1:50

6 March 2015 Start Date

End Date

341581.4 Easting

186934.6

Ground level

6.35mOD

Northing

Sheet

Depth

progress sample depth (m) casing test instru depth reduced legend samp /core description date/time no & depth type & lf -ment (m)level value water depth type to (m) range (m) 20C 7.90 - 8.50 3.90 Bluish grey fine and medium SANDSTONE recovered non intact as clayey very sandy angular and subangular fine 8.50 06/03/15 and medium sandstone gravel. (TSG) -2.151550hrs 1.30m 21C 8.50 - 8.80 3.90 Weak reddish brown MUDSTONE recovered non intact as 8 80 -2.45slightly clayey slightly sandy angular and subangular 100 100 0 0 09/03/15 22C 8.80 - 8.90 3.90 medium and coarse gravel. (TSG) 0850hrs 8.90 - 10.00 6.40 1.10m Light bluish grey mottled reddish brown MUDSTONE recovered non intact as slightly clayey slightly sandy 9.45 -3.10 subangular fine to coarse gravel. (TSG) Medium strong thinly laminated light bluish grey coarse SANDSTONE. Fractures are 20° extremely closely spaced undulating smooth with rare calcite crystals (up to 100 49 32 24C 10.00 - 11.20 6.40 2mm), (TSG) Medium strong thinly laminated reddish brown coarse micaceous SANDSTONE with frequent greenish grey reduction spots (up to 30mm). Fractures are subhorizontal 10.80 -4.45 to 20° and 70° to subvertical extremely closely spaced NA undulating and stepped rough with a veneer of reddish brown clay. (TSG) 11.20 -4.85 100 43 30 25C 11.20 - 12.70 6 40 Stiff fissured reddish brown slightly sandy silty CLAY with localised bluish grey reduction spots (up to 30mm). (TSG) Strong thickly laminated light bluish grey fine to coarse 11.85 -5.50 SANDSTONE with frequent rounded medium and coarse 200 340 gravel sized quartz inclusions. (TSG) 11.65 - 11.85m: Reddish brown. Weak thinly laminated off-white mottled dark grey fine to coarse SANDSTONE. Fractures are subhorizontal to 20° 12.70 -6.35and 60° to subvertical closely and medium spaced 30 140 300 26C 12.70 - 14.20 6.40 undulating rough with reddish brown clay veneer. (TSG) 12.60 - 12.70m: Reddish brown. Weak and medium strong thinly laminated greenish grey fine to coarse SANDSTONE with frequent subangular to rounded fine to coarse gravel sized quartz and quartzite inclusions. Fractures are subhorizontal to 20° very closely 09/03/15 to medium spaced undulating smooth. (TSG) 1415hrs 1.90m 14.20 -7.85Borehole completed at 14.20m. {18.00} CONTRACT water strike (m) casing (m) time to rise (m) AGS **CHECKED** rose to (m) remarks 30238

EC П 30238 YODA GPJ TRIALJH GPJ GEOTECH GLB 16/07/2015 16:03:51 Geotechnical Engineering Ltd, Tel. 01452 527743

BOREHOLE LOG

End Date



CLIENT WELSH GOVERNMENT

1:50

SITE M4 CORRIDOR AROUND NEWPORT Sheet 1 of 2

Scale

Start Date 24 March 2015

25 March 2015

Easting 341583.7

187012.1

Ground level

Northing

10.85mOD

11.60 m Depth

progress date/time water depth	no & type	depth	(m)	depth (m)	test type & value	/core range	I _f	instru -ment	description	depth (m)	reduced level (m)	lege
24/03/15 1000hrs	1B 2D* 3B	0.20 - 0 0.20 - 0 0.50 - 1	0.50 0.50	-	Vo 0.4	renigo			Grass over brown sandy gravelly SILT. Gravel is subangular and subrounded fine to coarse sandstone. (HDD)	0.50	10.35	× × × × × × × × × × × × × × × × × × ×
	4D*	0.50 - 1	1.00	_ - - -	Vo 5.1				Brown and yellowish grey clayey sandy subangular and subrounded fine to coarse sandstone GRAVEL with a high subangular sandstone cobble content. (HDD)	1.00	9.85	7 0 0
	5C	1.00 - 1	1.50	_		60 0 0	NI		Limited recovery. Medium strong yellowish grey medium and coarse SANDSTONE recovered non intact. (TSG)	-		• •
	6C	1.50 - 1 1.50 - 2		1.40	C*67	70 0 0			and source of the control of the master (1999)	- - - -		
	7C	2.00 - 2	2.50	_		60 8 0				_		
	8C 9D*	2.50 - 2 2.50 - 3 2.50 - 2	3.00	1.40	C*71	90	NA		Hard reddish brown slightly sandy silty CLAY. (TSG)	2.50	8.35 8.10	<u>×</u>
	10C	3.00 - 4	1.50	- - 1.40		43	NI		Thickly laminated reddish brown and greenish grey clayey a fine to coarse micaceous SAND. (TSG)	2.90	7.95	•
				- - - -		Ö			Limited recovery. Weak to medium strong yellowish grey medium and coarse SANDSTONE. Recovered non intact. (TSG)	- - - -		• • • • • • • • • • • • • • • • • • • •
				- - - -						- -	-	
	11C	4.50 - 4 4.50 - 5		1.40	C*750	82 35 12	NI 50 130		Weak to medium strong reddish brown medium and coarse siliceous SANDSTONE. Fractures are subhorizontal, 50° and 70° very closely and closely spaced planar rough. (TSG)	4.50	6.35	• • •
	400	5.00	7.40	- 4 40		93	60		Weak reddish grey medium and coarse siliceous	5.55	5.30	• •
	12C	5.60 - 7	7.10	- 1.40 - - -		93 65 37	60 100 260		SANDSTONE. Fractures are subhorizontal and 50° closely and medium spaced planar rough. (TSG)	-		• • •
				- - - -			20 50 110		Medium strong reddish brown fine and medium SANDSTONE. Fractures are subhorizontal and 20° very	6.35	4.50	• •
						0.7	120		closely and closely spaced planar smooth. (TSG) Medium strong reddish brown medium and coarse SANDSTONE with frequent subrounded and rounded fine	6.80 <u>-</u> 7.05 <u>-</u>	4.05 3.80	• •
	13C	7.10 - 8	3.60	- 1.40 - - -		97 97 59	25 120 270		and medium gravel sized inclusions of quartzite and mudstone. Fractures are subhorizontal and 20° closely spaced undulating rough. (TSG)	- - - -		
				_					Continued Next Page	{8.00}		

EQUIPMENT: Comacchio MC205 rig.

METHOD: Hand dug inspection pit 0.00-1.00m. Waterflush rotary core drilled (116mm) 1.00-11.60m.

CASING: 140mm diam to 1.40m.

BACKFILL: On completion, hole backfilled with bentonite pellets.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

remarks water strike (m) casing (m) rose to (m) time to rise (min)

> Groundwater not encountered prior to use of water flush.



CONTRACT 30238

CHECKED EC

30238 YODA.GPJ TRIALJH.GPJ GEOTECH.GLB 16/07/2015 16:03:54 STP Geotechnical Engineering Ltd, Tel. 01452 527743

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

2 of 2

1:50

SITE M4 CORRIDOR AROUND NEWPORT

Start Date 24 March 2015 Easting 341583.7 Sheet

Scale

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	If	instru -ment	description	depth (m)	reduced level (m)	lege
24/03/15 1640hrs 3.60m 25/03/15 0845hrs 3.50m	14C	8.60 - 10.10	1.40		79 73 48			Weak to strong thinly bedded reddish brown locally greenish grey fine and medium SANDSTONE. Fractures are subhorizontal and 20° very closely to medium spaced planar smooth. (TSG)	-		
			- - - - -		_	70 90 160		9.15 - 9.80m: Fractures are 20°, 40° and 70° closely spaced planar smooth.	-		• • • • • • • • • • • • • • • • • • • •
	15C	10.10 - 11.60	1.40		90 80 37	180 180 310		9.80 - 10.45m: Fractures are subhorizontal, 20° and 70° closely and medium spaced planar smooth. 9.90 - 10.05m: Greenish grey.		-	• • •
			_ _ _ _ _			NI 80 250		10.45 - 11.60m: Fractures are subhorizontal, 20° and 70° closely and medium spaced undulating rough. 10.70 - 11.50m: Greenish grey. 10.80 - 10.90m: Non-intact.	-		• • •
25/03/15 1030hrs 3.60m									11.60	-0.75	• • •
								Borehole completed at 11.60m.	-	-	
			- - - -						-	-	
			-						-		
			- - - -						-		
			- - - -						-	-	
									-		
			- - - -						-	-	
			- - -						-	-	
									-		
			- - -						-	-	

flush.

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

DIIJT

SITE M4 CORRIDOR AROUND NEWPORT

Start Date 26 March 2014

Easting 341628.8

Scale 1:50

Sheet

End Date 30 March 2015 Northing 187002.9 Ground level 11.35mOD Depth 11.50 m

progress date/time	sample no &	depth (m	casing depth	'	samp. /core	If	instru -ment	description	depth (m)	reduced level	legen
vater depth	type	from t	o (m)	value	range					(m)	
26/03/15 1445hrs	1B 2D* 3B 4D* 5B	0.20 - 0.60 0.20 - 0.60 0.60 - 0.80 0.60 - 0.80 0.80 - 1.00) -) -) -	Vo 2.2 Vo 3.4			/ /	Grass over reddish brown slightly gravelly silty fine and medium SAND with rare rootlets (up to 2mm diam). Gravel is rounded and well rounded medium and coarse quartzite. (HDD)	0.50	10.85	× · · · × · · × · · · × · · · · · · · ·
	6D* 7D 8X	0.80 - 1.00 1.00 - 1.43 1.00 - 1.30	B – N D – N		79	NI		Dark reddish grey slightly gravelly fine to coarse SAND with a low angular sandstone cobble content. Gravel is angular and subangular fine to coarse sandstone. (HDD) 0.80 - 1.00m: Gravelly.	1.30	10.05	D.
	9C	1.30 - 2.00 2.00 - 2.20	-	C*143	79 21 0	NI 70 120		Weak to medium strong very thinly bedded yellowish grey SANDSTONE. Fractures are subhorizontal, subvertical and 20° very closely and closely spaced planar rough. (TSG)	- - - -		• • •
	10C	2.00 - 3.50			100 52 24					-	
6/03/15 700hrs .40m 7/03/15 840hrs .60m	11C	3.50 - 3.83 3.50 - 5.00		C*83	97 31 13	NA 20 90 190		Very stiff reddish brown slightly sandy clayey SILT with frequent angular medium and coarse gravel sized extremely weak siltstone lithorelicts. (TSG)	3.30	8.05	× × ×
			- - - - - -		_	NI 20 50		Weak very thinly bedded locally cross bedded reddish brown and greenish grey fine and medium SANDSTONE. Fractures are subhorizontal and 20° very closely and closely spaced planar rough. (TSG) 3.90 - 4.00m: Hard thinly laminated reddish brown slightly sandy clayey silt.	4.20	7.15	• • •
	12C	5.00 - 5.70	3.20		100 20 20	NI		Weak locally extremely weak very thinly bedded reddish brown and grey fine and medium SANDSTONE. Fractures are extremely closely and very closely spaced subhorizontal, 20°, 50°, 70° and subvertical undulating	5.20	6.15	• • • •
	13C	5.70 - 7.00) - 3.20		100 68 24	30 80 120		rough. Locally non intact. (TSG) Extremely weak thinly laminated reddish brown MUDSTONE. Non intact. (TSG)	5.55 - - - -	5.80	• • •
			-					Very weak locally strong very thinly bedded reddish brown locally greenish grey fine and medium SANDSTONE. Fractures are subhorizontal, 20°, 70° and subvertical very closely and closely spaced undulating and planar rough. (TSG)	- - - - -	-	
	14C	7.00 - 8.50	3.2	0	97 59 31	40 90		Weak very thinly bedded reddish brown and greenish grey	7.40	3.95	• • •
			Ė			240		fine and medium SANDSTONE. Fractures are subhorizontal, 50°, 70° and subvertical very closely and	-		

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.00m. Dynamic sampled (113mm) 1.00-1.30m. Waterflush rotary core drilled (116mm) 1.30-11.50m.

CASING: 140mm diam to 3.20m.

BACKFILL: On completion, a slotted standpipe (50mm) was installed to 11.50m, granular response zone 11.50-2.00m, bentonite seal 2.00-0.30m, concrete and raised helmet cover 0.30-0.00m.

REMARKS: Driller noted reduced flush returns 1.30-5.70m (60-80% returned) and loss of flush 5.70-11.50m.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered prior to use of water flush.



CONTRACT

CHECKED

30238 EC

Geotechnical Engineering Ltd, Tel. 01452 527743 30238 YODA, GPJ TRIALJH, GPJ GEOTECH.GLB 16/07/2015 16:11:45 STP

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

SITE M4 CORRIDOR AROUND NEWPORT Sheet 2 of 2

Start Date 26 March 2014 Easting

Scale 1:50

End Date 30 March 2015 Northing Denth 187002.9 Ground level 11.35mOD 11 50 m

341628.8

End Date	30	March 201	5		North	ning	18	7002.9 Gro	ound level	11.35mOD	Depth	1	1.50 m
progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	If	instru -ment		description	n	depth (m)	reduced level (m)	legend
27/03/15 1630hrs 6.30m 30/03/15 0840hrs 6.90m	15C 16C	8.50 - 8.90 8.90 - 10.00	3.20	value	75 30 30 91 7 0	100 NI 40 90		Medium strong r subangular and clasts of mudsto (TSG) Extremely weak and greenish gre with clay infill (up Fractures are su closely and very rough. Locally no	reddish brown (80 subrounded fine a sine and sandstone to weak thinly integry MUDSTONE at p to 5mm) along subhorizontal, 70° a closely spaced upon intact. (TSG)	% clast supported) and medium gravel size CONGLOMERATE. erbedded reddish brown and SANDSTONE local ubhorizontal fractures and subvertical extremendulating and planar own locally greenish gi	vn lly :. ely	2.70 2.60	***** **** **** **** *** *** *** *** *** *** *** ** *** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** *
30/03/15	18C	11.00 - 11.50	3.20		100 18 0	20 70 95		SILTSTONE. Fra	actures are subho	rizontal, subvertical a ed undulating rough.		0.20	X X X X X X X X X X X X X X X
1310hrs 6.80m	_				0	20 30 50			greenish grey med Fractures are 20° a	lium and coarse and 80° very closely	11.50	-0.15	
											{18.00}		
water strike	(m) cas	ing (m) rose t	to (m) ti	me to ris	se (m)	rema		er not encountered	d prior to use of w	AUSII	ITRACT	CHE	
						fluck			. , 10 000 01 W	··· 30)238	E	C

flush.

Geotechnical Engineering Ltd, Tel. 01452 527743 30238 YODA GPJ TRIALJH GPJ GEOTECH GLB 16/07/2015 16:11:46 STP

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

20 February 2015

1 of 2

SITE M4 CORRIDOR AROUND NEWPORT

> Scale 1:50

Start Date 18 February 2015

End Date

Easting 341672.7

187162.9 Ground level

Northing

23.15mOD Depth 16.00 m

Sheet

progress	sample	depth (m	1)	casing	test	samp.	,	instru	do partir ti e re	depth	reduced	lege
date/time	no &	f 4	_	depth	type &	/core	If	-ment	description	(m)	level	
water depth	type	from t	0	(m)	value	range					(m)	
18/02/15	1B	0.00 - 0.30		-					Dark brown silty gravelly CLAY with medium subangular	-	00.05	
1420hrs	2D*	0.00 - 0.30	_	-	Vo 3.8				sandstone cobble content and frequent plant fragments	0.30	22.85	= =
	3B	0.30 - 0.80) -	-					(up to 2mm). Gravel is subangular fine to coarse	-	1	0.
	4D*	0.30 - 0.80	0	_	Vo 9.0				sandstone. (HDD)	_	1	þ. 0
	5B	0.80 - 1.00)	-						-	+	> 0
	6D*	0.80 - 1.00	ם כ	-	Vo 7.0				Light brown and greenish grey sandy subangular fine to	4.00	00.45	0.0
	7D	1.00 - 1.29	9	– Nil	S*73			K+K+1K+	coarse sandstone GRAVEL with medium subangular	1.00	22.15	0
	8X	1.00 - 1.20	o	-					sandstone cobble content. (HDD)	1.20	21.95	a
	9C	1.20 - 2.00		1.00		50	NI	1. . .	Yellowish brown mottled reddish brown clayey gravelly	_		• •
			-	-		0		- - -	SAND. Gravel is subangular fine to coarse sandstone.	-	1	• •
10/00/45			ļ	-				1.11.11.	(TSG)	-	1	
18/02/15 1700hrs			ŀ	-				[] []		-	1	• •
0.40m		0.00 0.0	_	- 400	0+400				Strong greenish grey mottled purplish brown coarse	2.00	21.15	• •
	100	2.00 - 2.05		_ 1.20	C*429	100	NII	₹.#.: `.	SANDSTONE. Fractures are subhorizontal to 20° closely	2.00_	21.15	
19/02/15 0900hrs	10C	2.00 - 3.00	J	-		100 33 12	NI 70 200	1-11-11-	spaced planar rough. Recovered non-intact. (TSG)		1	
1.10m			ŀ	-		12	200	1.11.11.	Weak to medium strong yellowish brown mottled purplish	-	+	• •
			Ĺ	_				比比		-	1	
			-	-				1, 11, 11,	brown medium SANDSTONE. Fractures are subhorizontal	-	+	
			Ė	_					and 20° and 70° to subvertical very closely and closely	-	1	• •
		3.00 - 3.45	5	1.20	C 4				spaced planar rough locally infilled (up to 10mm) with		-	• •
	11C	3.00 - 3.40		- 3.00	C 4	40 0		. . .	reddish brown sandy clay. (TSG)	_	1	
	110	3.00 - 4.00	ر ا	3.00		0		- - -	2.20 - 2.40m: 70° fracture.	-	1	• •
			F	-		0		· · ·	3.00 - 4.00m: Limited recovery. Recovered non intact.	-	1	• •
				-						_		• •
			H	-						-	1	
				-						_	1	
		4.00 - 4.32	>	3.00	C*88			. . .		-	1	• •
	12C	4.00 - 5.00		_ 0.00	0 00	100					1	::
	120	1.00 0.00	Ĭ	-		5				-	+	
				-		"				_	1	
			H	-						-	+	• •
				_								: :
			-	-						-	+	
		5.00 - 5.4	5	3.00	C 34					5.00	18.15	• •
	13C	5.00 - 6.00)	-		85 12	NA		Stiff orangish brown sandy gravelly CLAY. Gravel is	-	-	2 0
			L	.		0			subangular fine to coarse sandstone. (TSG)		1	<u></u>
			F	-						5.50	17.65	FE
			Ŀ	_			NI		Madium atrana mumiah hugum fina CANDCTONE	5.00	1	• •
			F	-					Medium strong purplish brown fine SANDSTONE.	-	+	• •
			_	_					Fractures are subhorizontal to 20° and 70° to subvertical		47.15	::
		6.00 - 6.22		_ 3.00	C*143	100	k 11*		planar rough. (TSG)	6.00	17.15	-
	14C	6.00 - 7.00	0	_		100 65	NI 60		5.90 - 6.00m: Purplish brown mottled yellow sandy clay.	-	1	
			ļ	-		65 49	230		Medium strong and strong purplish brown mottled			
			+	-					greenish grey coarse SANDSTONE. Fractures are	-	+	• •
			ļ	-					subhorizontal to 20° closely and medium spaced planar	-	1	
			ŀ	-					rough locally infilled (up to 2mm) with purplish brown	-	+	
		7.00 7.11	_	- 000	0+004				sandy clay. (TSG)	7.00	16 15	
	450	7.00 - 7.15		_ 3.00	C*231	100	KII			7.00_	16.15	• •
	15C	7.00 - 8.50	ט -	_		100 70	NI 90		Weak purplish brown mottled greenish grey coarse		1	
			F	-		48	250		SANDSTONE. Fractures are subhorizontal to 20° closely	-	4	
			ŀ	-					and medium spaced planar rough locally infilled (up to	-	†	• •
			ļ	-					2mm) with reddish brown sandy clay. (TSG)] -]	::
			H	-				=		-	1	
			þ	-							1	• •
			+	-				7.	Continued Next Page	{8.00}	1	
								1	Continued Next Fage	10.00}		

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.00m. Dynamic sampled (113mm) 1.00-1.20m. Waterflush rotary core drilled (116mm) 1.20-16.00m.

CASING: 140mm diam to 6.00m.

BACKFILL: On completion, a slotted standpipe (50mm) was installed to 16.00m, granular response zone 16.00-10.00m and bentonite seal 10.00-4.00m. A second slotted standpipe (35mm) was installed to 4.00m, granular response zone 4.00-1.00m, bentonite seal 1.00-0.20m, concrete and stopcock cover

REMARKS: Driller notes reduced flush returns 1.20-8.50m: 80-90% returned.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

> Groundwater not encountered prior to use of water flush.



CONTRACT

CHECKED

30238

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

2 of 2

1:50

SITE M4 CORRIDOR AROUND NEWPORT

Start Date 18 February 2015 341672.7 Easting

Sheet

Scale

End Date 20 February 2015 Ground level 23.15mOD 16.00 m Northing 187162.9 Depth depth reduced legend progress sample depth (m) instru samp type & date/time /core I_f -ment description (m) level no & depth water depth from value range (m) type to (m) 19/02/15 1630hrs 0.60m 100 69 60 20/02/15 16C 8.50 - 10.00 6.00 0840hrs 3.14m 100 66 20 17C 10.00 - 11.50 6.00 10.55 - 10.65m: Recovered non intact. 11.60 11.55 18C 6.00 11.50 - 13.00 Strong purplish brown mottled greenish grey coarse SANDSTONE. Fractures are subhorizontal to 20° and 70° to subvertical closely spaced planar rough locally infilled (up to 2mm) with reddish brown sandy clay. Surfaces stained light grey. (TSG) 19C 13.00 - 14.50 6.00 13 00 - 13 20m: Fine sandstone NI 150 250 13.00 - 15.20m: Fractures are subhorizontal to 20°. 100 76 74 20C 14.50 - 16.00 6.00 15.35 -7.80 15.20 - 15.35m: Recovered non intact Strong purplish brown mottled greenish grey fine 20/02/15 SANDSTONE. Fractures are subhorizontal to 20° closely 1630hrs 3.00m and medium spaced planar rough locally infilled (up to 16.00_ 7.15 2mm) with reddish brown sandy clay. (TSG) Borehole completed at 16.00m. {18.00} AGS CONTRACT **CHECKED** water strike (m) casing (m) rose to (m) time to rise (m) remarks Groundwater not encountered prior to use of water 30238 **EC**

flush

30238 YODA.GPJ TRIALJH.GPJ GEOTECH.GLB 16/07/2015 16:11:50 RM Geotechnical Engineering Ltd, Tel. 01452 527743

Appendix 2

Gas and Groundwater Monitoring Data

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks	
BH539	24/03/15 10:30:00	1016	2								0.4	7		10 litres purged, base de	pth
BH539	24/03/15 10:31:00										0.0			3.00m.	
BH539	24/03/15 10:32:00										0.0				
BH539	24/03/15 10:33:00										0.0				
BH539	24/03/15 10:34:00										0.0				
BH539	24/03/15 10:35:00			0.0	0.0	20.1	0.0	0	0	0.4					
BH539	24/03/15 10:36:00			0.0	0.0	20.0	0.0	0	0	0.2					
BH539	24/03/15 10:37:00			0.0	0.0	20.0	0.0	0	0	0.1				Upsurge at 3min 20sec. l	Unable to
BH539	24/03/15 10:44:00												0.56	obtain further readings.	
BH539	31/03/15 11:00:00	1017	-0.78								0.0	11		10 litres purged, base de 3.00m.	pth
BH539	31/03/15 11:01:00										0.0			3.0011.	
BH539	31/03/15 11:02:00										0.0				
BH539	31/03/15 11:03:00										0.0				
BH539	31/03/15 11:04:00										0.0				
BH539	31/03/15 11:05:00			0.0	0.0	20.9	0.0	0	0	2.7					
BH539	31/03/15 11:06:00			0.0	0.0	20.9	0.0	0	0	2.6					
BH539	31/03/15 11:07:00			0.0	0.0	20.9	0.0	0	0	2.5				Upsurge at 3min 20sec. l obtain further readings.	Unable to
BH539	31/03/15 11:14:00												0.71	obtain further readings.	
remarks	esult exceeding capacity	_												CONTRACT CH	IECKED

denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Shallow install.

30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks	
BH539	16/04/15 09:02:00										0.0			8 litres purged, base of	depth 3.00m
BH539	16/04/15 09:03:00										0.0				
BH539	16/04/15 09:04:00										0.0				
BH539	16/04/15 09:05:00			0.4	0.1	20.2	1.0	0	1	4.7					
BH539	16/04/15 09:06:00			0.4	0.1	20.2	1.0	0	0	4.7					
BH539	16/04/15 09:07:00			0.3	0.1	20.2	1.0	0	0	4.4				Upsurge at 3min 20se obtain further reading	ec. Unable to
BH539	16/04/15 09:14:00												1.06	obtain further reading	S.
BH539	16/04/15 11:00:00	1019	-0.75								0.0	12			
BH539	16/04/15 11:01:00										0.0				
BH539	08/05/15 14:53:00	1002	7								1.6	15			
BH539	08/05/15 14:54:00										1.2				
BH539	08/05/15 14:55:00										1.2				
BH539	08/05/15 14:56:00										2.1				
BH539	08/05/15 14:57:00										1.6				
BH539	08/05/15 14:58:00			0.0	0.0	20.3	0.0	0	0	0.0					
BH539	08/05/15 14:59:00			0.0	0.0	20.2	0.0	0	0	0.0					
BH539	08/05/15 15:00:00			0.0	0.0	20.2	0.0	0	0	0.0					
BH539	08/05/15 15:01:00			0.0	0.0	20.2	0.0	0	0	0.0					
remarks	esult exceeding capacity of	_												CONTRACT	CHECKEI

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene. Shallow install.

30238

CHECKED EC

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remar	ks
BH539	08/05/15 15:02:00			0.0	0.0	20.2	0.0	0	0	0.0					
BH539	08/05/15 15:03:00			0.0	0.0	20.2	0.0	0	0	0.0					
BH539	08/05/15 15:04:00			0.0	0.0	20.2	0.0	0	0	0.0					
BH539	08/05/15 15:05:00			0.0	0.0	20.1	0.0	0	0	0.0					
BH539	08/05/15 15:06:00			0.0	0.0	20.1	0.0	0	0	0.0					
BH539	08/05/15 15:07:00			0.0	0.0	20.1	0.0	0	0	0.0					
BH539	08/05/15 15:08:00												2.03		
remarks								l	l		l			CONTRACT	TOUECKED

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene. Shallow install.

CONTRACT 30238

CHECKED EC

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remark	S
BH539	24/03/15 10:44:00												1.09	77 litres purged, bas 14.00m.	se depth
BH539	31/03/15 11:14:00												1.23	76 litres purged, bas	
BH539	16/04/15 09:14:00												1.65	74 litres purged, bas 14.00m.	
BH539	08/05/15 15:09:00												3.39		
emarks														CONTRACT	CHECK

denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Deep install.

30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH541	31/03/15 13:00:00	1016	-0.49								0.0	14		28 litres purged, base depth 11.50m.
BH541	31/03/15 13:01:00										0.0			11.50m.
BH541	31/03/15 13:02:00										0.0			
BH541	31/03/15 13:03:00										0.0			
BH541	31/03/15 13:04:00										0.0			
BH541	31/03/15 13:05:00			0.3	0.0	20.1	0.0	0	64	4.2				
BH541	31/03/15 13:06:00			0.3	0.0	20.1	0.0	0	63	3.7				
BH541	31/03/15 13:07:00			0.3	0.0	20.0	0.0	0	62	3.1				
BH541	31/03/15 13:08:00			0.3	0.0	19.9	0.0	0	61	2.3				
BH541	31/03/15 13:09:00			0.3	0.0	19.9	0.0	0	61	2.6				
BH541	31/03/15 13:10:00			0.3	0.0	19.8	0.0	0	60	2.3				
BH541	31/03/15 13:11:00			0.3	0.0	19.8	0.0	0	58	2.1				
BH541	31/03/15 13:12:00			0.3	0.0	19.9	0.0	0	57	2.1				
BH541	31/03/15 13:13:00			0.3	0.0	20.0	0.0	0	55	1.9				
BH541	31/03/15 13:14:00			0.3	0.0	20.2	0.0	0	52	1.8			6.67	
BH541	16/04/15 14:15:00	1014	0.11								0.0	18		28 litres purged, base depth
BH541	16/04/15 14:16:00										0.0			11.50m.
BH541	16/04/15 14:17:00										0.0			
remarks													Т	CONTRACT CHECKED

denotes result exceeding capacity of gas monitoring equipment

VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT

30238

CHECKED EC

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH541	16/04/15 14:18:00										0.0			
BH541	16/04/15 14:19:00										0.0			
BH541	16/04/15 14:20:00			0.8	0.1	19.5	2.0	0	1	6.0				
BH541	16/04/15 14:21:00			0.8	0.1	19.4	2.0	0	1	5.3				
BH541	16/04/15 14:22:00			0.9	0.1	19.4	2.0	0	1	4.4				
BH541	16/04/15 14:23:00			0.9	0.1	19.4	2.0	0	0	4.1				
BH541	16/04/15 14:24:00			0.9	0.1	19.4	2.0	0	1	3.7				
BH541	16/04/15 14:25:00			0.9	0.1	19.4	2.0	0	1	3.4				
BH541	16/04/15 14:26:00			0.9	0.1	19.3	2.0	0	1	3.2				
BH541	16/04/15 14:27:00			1.0	0.1	19.3	2.0	0	1	3.0				
BH541	16/04/15 14:28:00			1.0	0.1	19.2	2.0	0	1	2.7				
BH541	16/04/15 14:29:00			1.0	0.1	19.2	2.0	0	0	2.6			6.73	
BH541	21/04/15 11:00:00	1038	-0.81								0.0	13		28 litres purged, base depth 11.50m.
BH541	21/04/15 11:01:00										0.0			11.3011.
BH541	21/04/15 11:02:00										0.0			
BH541	21/04/15 11:03:00										0.0			
BH541	21/04/15 11:04:00										0.0			
BH541	21/04/15 11:05:00			0.0	0.1	20.7	1.0	0	0	3.6				
remarks														CONTRACT CHECKED

denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT 30238

EC

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH541	21/04/15 11:06:00			0.0	0.1	20.7	1.0	0	0	3.1				
BH541	21/04/15 11:07:00			0.0	0.1	20.7	1.0	0	0	2.8				
BH541	21/04/15 11:08:00			0.1	0.1	20.6	1.0	0	0	2.7				
BH541	21/04/15 11:09:00			0.2	0.1	20.5	1.0	0	0	2.5				
BH541	21/04/15 11:10:00			0.4	0.1	20.4	1.0	0	0	2.3				
BH541	21/04/15 11:11:00			0.6	0.1	20.3	1.0	0	0	2.1				
BH541	21/04/15 11:12:00			0.6	0.1	20.2	1.0	0	0	2.1				
BH541	21/04/15 11:13:00			0.7	0.1	20.2	1.0	0	0	2.0				
BH541	21/04/15 11:14:00			0.7	0.1	20.2	1.0	0	0	1.9			6.71	
BH541	11/05/15 10:24:00	1017	0								0.0	15		
BH541	11/05/15 10:25:00										0.0			
BH541	11/05/15 10:26:00										0.0			
BH541	11/05/15 10:27:00										0.0			
BH541	11/05/15 10:28:00										0.0			
BH541	11/05/15 10:29:00			0.0	0.0	20.1	0.0	0	0	0.0				
BH541	11/05/15 10:30:00			0.0	0.0	20.1	1.3	0	0	0.0				
BH541	11/05/15 10:31:00			0.0	0.0	20.1	7.0	0	0	0.0				
BH541	11/05/15 10:32:00			0.0	0.0	20.1	10.3	0	0	0.0				
emarks														CONTRACT CHECK

denotes result exceeding capacity of gas monitoring equipment

VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT

CHECKED EC

30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH541	11/05/15 10:33:00			0.0	0.0	20.1	12.9	0	0	0.0				
BH541	11/05/15 10:34:00			0.0	0.0	20.1	15.0	0	0	0.0				
BH541	11/05/15 10:35:00			0.0	0.0	20.1	15.4	0	0	0.0				
BH541	11/05/15 10:36:00			0.0	0.0	20.1	18.9	0	0	0.0				
BH541	11/05/15 10:37:00			0.0	0.0	20.0	11.2	0	0	0.0				
BH541	11/05/15 10:38:00			0.0	0.0	20.0	0.0	0	0	0.0				
BH541	11/05/15 10:39:00												8.15	11.5
remarks														CONTRACT CHECKE

denotes result exceeding capacity of gas monitoring equipment

VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT

CHECKED EC

30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remark	S
BH542	24/03/15 12:30:00	1010	0								0.0	8		0 litres purged, base	e depth 4.00m
BH542	24/03/15 12:31:00										0.0				
BH542	24/03/15 12:32:00										0.0				
BH542	24/03/15 12:33:00										0.0				
BH542	24/03/15 12:34:00										0.0				
BH542	24/03/15 12:35:00			3.1	0.0	0.4	0.0	0	10	14.6					
BH542	24/03/15 12:36:00			3.4	0.0	0.2	0.0	0	10	13.7					
BH542	24/03/15 12:37:00			3.2	0.0	0.3	0.0	0	10	12.6					
BH542	24/03/15 12:38:00			3.5	0.0	0.6	0.0	0	10	10.9					
BH542	24/03/15 12:39:00			4.1	0.0	1.0	0.0	0	10	9.5					
BH542	24/03/15 12:40:00			4.4	0.0	1.5	0.0	0	10	7.5					
BH542	24/03/15 12:41:00			4.9	0.0	2.2	0.0	0	10	6.9					
BH542	24/03/15 12:42:00			5.0	0.0	2.9	0.0	0	13	5.2					
BH542	24/03/15 12:43:00			4.8	0.0	4.0	0.0	0	0	5.6					
BH542	24/03/15 12:44:00			4.8	0.0	4.5	0.0	0	0	5.4			Dry		
BH542	31/03/15 12:30:00	1015	2.5								0.0	14		0 litres purged, base	e depth 4.00m
BH542	31/03/15 12:31:00										0.0				
BH542	31/03/15 12:32:00										0.0				
remarks	esult exceeding capacity													CONTRACT	CHECKE

denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Shallow install.

30238

CHECKED EC

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH542	31/03/15 12:33:00										0.0			
BH542	31/03/15 12:34:00										0.0			
BH542	31/03/15 12:35:00			4.0	0.0	7.5	0.0	0	3	7.5				
BH542	31/03/15 12:36:00			4.4	0.0	4.3	0.0	0	4	7.7				
BH542	31/03/15 12:37:00			4.6	0.0	3.9	0.0	0	4	7.6				
BH542	31/03/15 12:38:00			4.9	0.0	4.3	0.0	0	4	6.6				
BH542	31/03/15 12:39:00			5.3	0.0	5.5	0.0	0	4	5.5				
BH542	31/03/15 12:40:00			5.5	0.0	6.4	0.0	0	3	5.4				
BH542	31/03/15 12:41:00			5.6	0.0	7.0	0.0	0	4	5.5				
BH542	31/03/15 12:42:00			5.7	0.0	7.9	0.0	0	3	4.9				
BH542	31/03/15 12:43:00			5.8	0.0	8.7	0.0	0	3	4.3				
BH542	31/03/15 12:44:00			5.7	0.0	9.3	0.0	0	3	3.7			Dry	
BH542	16/04/15 13:00:00	1014	-0.17								0.1	17		0 litres purged, base depth 4.00m.
BH542	16/04/15 13:01:00										0.1			
BH542	16/04/15 13:02:00										0.1			
BH542	16/04/15 13:03:00										0.2			
BH542	16/04/15 13:04:00										0.1			
BH542	16/04/15 13:05:00			4.2	0.1	11.1	2.0	0	0	7.1				

denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Shallow install.

CONTRACT 30238

CHECKED EC

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remark	ks
BH542	16/04/15 13:06:00			4.9	0.1	9.3	2.0	0	0	5.6					
BH542	16/04/15 13:07:00			5.7	0.1	7.7	2.0	0	0	4.8					
BH542	16/04/15 13:08:00			6.2	0.1	8.1	2.0	0	0	4.0					
BH542	16/04/15 13:09:00			6.4	0.1	8.7	2.0	0	1	3.5					
BH542	16/04/15 13:10:00			6.5	0.1	9.4	2.0	0	0	3.3					
BH542	16/04/15 13:11:00			6.6	0.1	9.8	1.0	0	0	3.2					
BH542	16/04/15 13:12:00			6.6	0.1	10.3	1.0	0	1	3.1					
BH542	16/04/15 13:13:00			6.6	0.1	10.9	1.0	0	1	2.9					
BH542	16/04/15 13:14:00			6.6	0.1	11.4	1.0	0	0	2.8			Dry		
remarks														CONTRACT	CHECKE

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Shallow install.

CONTRACT

30238

EC

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



BH542 31/03/15 12:44:00 Dry 0 litre 16.00	
BH542 31/03/15 12:44:00 Dry 0 litre 16.00	s purged, base depth n.
	n. s purged, base depth n.
	s purged, base depth n.

denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Deep install.

30238

EC

NORWEST HOLST SOIL ENGINEERING LTD.

M4 RELIEF ROAD MAGOR TO CASTLETON STAGE 2

PIEZOMETER RECORDS BHM6

DATE	TIME(24hr)	WATER LEVEL(m)	WATER LEVEL mOD
15/11/97	14:00	3.52	7.53
25/11/97	15:25	3.17	7.88
02/12/97	11:00	1.67	9.38
10/12/97	14:30	1.86	9.19
16/12/97	15:35	1.93	9.12

TIP DEPTH: 6.53m

TYPE OF COVER:BARREL

HEIGHT OF COVER A.B.G.L:0.22m

HEIGHT OF PIPE A.B.G.L:0.14m

COMMENTS:

Appendix 3

Groundwater Laboratory Data

M4CAN Groundwater Analysis Results & Screening Assessment CL-30 04/08/2015

Geological Formation Legend
TSG Tintern Sandstoen Group
HD Head Deposits

Monitoring Round		Screenin	g Criteria	1	2	2				2		2
Location		Screenin	g Criteria	BH541	BH541	BH541	BH539	BH539	BH539	BH539	BH539	BH539
Depth				6.67	6.73	6.72	1.97	3.57	2.1	2.84	1.49	3.04
Response Zone Details (RZ)					TSG		HD	TSG	HD	TSG	HD	TSG
Drainage Area	Units			Magor Area 5	Magor Area 5	Magor Area 5	Magor Area 5	Magor Area 5	Magor Area 5	Magor Area 5	Magor Area 5	Magor Area 5
Dramage Area		EQS	DWS	East	East	East	East	East	East	East	East	East
Installation Details				2-11.5	2-11.5	2-11.5	1-3	5-14.2	1-3 Shallow	5-14.2 Deep	1-3 Shallow	5-14.2
							Shallow	Deep				Deep
Date Sampled				31/03/2015	16/04/2015	21/04/2015	24/03/2015	24/03/2015	31/03/2015	31/03/2015	16/04/2015	16/04/2015
Metals												
Arsenic Dissolved Boron Dissolved	ug/l ug/l	50 2000	1000	1.9	1000	140	820	<1 760	3.2 160	3.4 78	1.9	<1 960
Chromium Dissolved	ug/l	2000	50	26	2.3	14	3.3	6.6	25	33	1.8	2.4
Copper Dissolved	ug/l	10	2000	9.9	<1	8.1	<1	1.9	16	21	<1	<1
Lead Dissolved	ug/l	1.2	10 20	1.4	<1 <1	<1 2.6	<1	<1 6.2	6.3	<1 2.3	<1 3.3	<1 1.3
Nickel Dissolved Selenium Dissolved	ug/l ug/l	4	10	1.3	1.4	3.9	1.5	4	2.9	3.1	1	2.7
Cadmium Dissolved	ug/l	0.15	5	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	< 0.08
Zinc Dissolved	ug/l	75 0.07	1	3.3 <0.5	<0.5	2.9 <0.5	1.4	1.1	5.9 <0.5	7.6 <0.5	2.5 <0.5	3.4 <0.5
Mercury Dissolved Non-Metal Inorganics	ug/l	0.07	1	<0.5	<0.5	<0.5	0.65	1.3	<0.5	<0.5	<0.5	<0.5
Total Alkalinity as CaCO3	mg/l			210	240	800	510	460	230	280	330	250
Chloride	mg/l	250	250	13	14	620	32	70	31	73	25	70
Ammoniacal Nitrogen as N Total Cyanide	mg/I mg/I	0.6	0.05	<0.01 <0.05	0.054 <0.05	< 0.05	0.45 <0.05	0.23 <0.05	<0.05	0.17 <0.05	0.41 <0.05	0.041 <0.05
Free Cyanide	mg/l	0.001	0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
pH Value	pH units	6-9	6.5-10	8.1	8.6	8.3	7.7	7.8	7.8	7.9	8.4	8.6
Phenois												
2-Chlorophenol 2 - Methyl-4,6-Dinitrophenol	ug/l 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
2-Methylphenol	ug/I			<0.5	<0.5				<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	ug/l			<0.5	<0.5				<0.5	< 0.5	<0.5	<0.5
2,4-Dichlorophenol 2,4-Dimethylphenol	ug/l 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
2,4,5-Trichlorophenol	ug/I			<0.5	<0.5				<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	ug/l			<0.5	<0.5				<0.5	<0.5	<0.5	<0.5
4-Chloro-3-methylphenol	ug/l			<0.5	<0.5				<0.5	<0.5	<0.5	<0.5
4-Methylphenol Pentachlorophenol	ug/l 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
Phenol	ug/l	7.7		<0.5	<0.5				<0.5	<0.5	<0.5	<0.5
Phenols	mg/I	0.0077		<0.03	<0.03	<0.03	0.03	<0.03	<0.03	<0.03	<0.03	<0.03
MTBE BTEX				<1	<1	_	_		<1	<1	<1	<1
Benzene	ug/l ug/l	10	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/l	50		<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethyl benzene	ug/l	20		<1	<1	<1	<1	<1	<1	<1	<1	<1
m & p Xylene o Xylene	ug/l ug/l	30 30		<1	<1	<1 <1	<1 <1	<1 <1	<1 <1	<1 <1	<1 <1	<1
TPH	ug,			174		**	**		14	74	**	
Aliphatics C5-C6	ug/l			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aliphatics >C6-C8	ug/l			<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 Aliphatics >C10-C12	ug/l 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
Aliphatics >C12-C16 Aqueous	ug/l			< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.1
Aliphatics >C16-C21 Aqueous Aliphatics >C21-C35 Aqueous	ug/l 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
Aliphatics >C21-C35 Aqueous Aliphatics >C35-44	ug/I			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatics >C5-C7	ug/l			< 0.1	<0.1	<0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.1
Aromatics >C7-C8	ug/l			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatics >EC8-EC10 Aromatics >EC10-EC12	ug/l ug/l			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 <0.1	<0.1	<0.1
Aromatics >EC12-EC16 Aqueous	ug/l			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatics >EC16-EC21 Aqueous	ug/l			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatics >EC21-EC35 Aqueous Aromatics >C35-44	ug/l 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
Total Aliphatic TPH	ug/l			<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Aromatic TPH	ug/l			<5	<5	<5	<5	<5	<s< td=""><td><5</td><td><5</td><td><5</td></s<>	<5	<5	<5
Total petroleum hydrocarbons PAHs	ug/l			<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene	ug/l			<0.5	<0.5				<0.5	<0.5	<0.5	<0.5
2-Methylnaphthalene	ug/l			<0.5	<0.5				<0.5	<0.5	<0.5	<0.5
Acenaphthene	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
Acenaphthylene Anthracene	ug/l ug/l	0.1		<0.1	<0.1 <0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	ug/l			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	ug/l	0.00017	0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene Benzo(k)fluoranthene	ug/l ug/l	0.017	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	ug/I	0.017	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	ug/l			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	ug/l	0.0063		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene Benzo(ghi)perylene	ug/l ug/l	0.0082	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 <0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	ug/l		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	ug/I	2		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene Pyrene	ug/l 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
Pyrene Total PAHs (USEPA 16)	ug/l			<0.1	<0.1 <2	<0.1	<0.1	<0.1 <2	<0.1	<0.1	<0.1	<0.1
Phthalates												
Bis(2-ethylhexyl) phthalate	ug/l			< 0.5	<0.5 <0.5				<0.5	<0.5	<0.5 <0.5	<0.5
Butylbenzyl phthalate Di-n-butyl phthalate	ug/l ug/l			<0.5	<0.5 <0.5	-	-		<0.5	<0.5 <0.5	< 0.5	<0.5
Di-n-Octyl phthalate	ug/l			<0.5	<0.5				<0.5	<0.5	<0.5	<0.5
Diethyl phthalate	ug/l			<0.5	<0.5				<0.5	<0.5	<0.5	<0.5
Dimethyl phthalate	ug/l			<0.5	<0.5	l	l		<0.5	<0.5	<0.5	<0.5

	Screening V	alues & Assessment
1	EQS	Environmental Quality Standards
ı	DWS	Drinking Water Standard
ı		Exceeds EQS
ı	Х	Exceeds DWS
ı	X	Laboratory detection level higher than screening criterion

X Offsite borehole location
X Detail inferred, unspecified

No.	No. Analyses	Maximum	Minimum	Location & Depth of	No. Data	No. Data
Analyses	Above LOD	Maximum	William	Maximum Concentration	Exceeding EQS	Exceeding DWS
9	6	25	1.9	BH541 @ 6.72mbGL	0	1
9	9	1000	78	BH541 @ 6.73mbGL	0	0
9	9	33	1.8	BH539 @ 2.84mbGL		0
9	5	21	1.9	BH539 @ 2.84mbGL	2	0
9	0 8	None > LOD 7	None > LOD 1.3	0.0520.04.071.61	0	0
9	9	4	1.3	BH539 @ 1.97mbGL BH539 @ 3.57mbGL	3	0
9	ő	None > LOD	None > LOD	BH333 @ 3.37HBGC	0	ő
9	8	7.6	1.1	BH539 @ 2.84mbGL	0	
9	2	1.3	0.65	BH539 @ 3.57mbGL	2	1
9	9	800	210	BH541 @ 6.72mbGL		ı
9	9	620	13	BH541 @ 6.72mbGL	1	1
9	8	1.4	0.041	BH541 @ 6.72mbGL	2	-
9	0	None > LOD	None > LOD		0	0
9	0	None > LOD	None > LOD			
9	9	8.6	7.7	BH541 @ 6.73mbGL	0	0
6	0	None > LOD	None > LOD		ı	0
6	0	None > LOD	None > LOD			0
6	0	None > LOD	None > LOD			0
6	0	None > LOD	None > LOD			0
6	0	None > LOD None > LOD	None > LOD None > LOD		 	0
6	0	None > LOD	None > LOD None > LOD		l	0
6	0	None > LOD	None > LOD		İ	0
6	0	None > LOD	None > LOD			0
6	0	None > LOD	None > LOD		l	0
6	0	None > LOD None > LOD	None > LOD None > LOD		0	0
9	1	0.03	0.03	BH539 @ 1.97mbGL	1	
6	0	None > LOD	None > LOD			
9	0	None > LOD None > LOD	None > LOD None > LOD		0	0
9	0	None > LOD None > LOD	None > LOD None > LOD		0	
9	0	None > LOD	None > LOD		0	
9	0	None > LOD	None > LOD		0	
9	0	None > LOD	None > LOD			
9	0	None > LOD None > LOD	None > LOD None > LOD		l	
9	0	None > LOD	None > LOD		l	
9	0	None > LOD	None > LOD			
9	0	None > LOD	None > LOD			
9	0	None > LOD None > LOD	None > LOD None > LOD			
9	0	None > LOD	None > LOD			
9	0	None > LOD	None > LOD			
9	0	None > LOD	None > LOD			
9	0	None > LOD	None > LOD			
9	0	None > LOD None > LOD	None > LOD None > LOD			
9	0	None > LOD	None > LOD None > LOD		l	
9	0	None > LOD	None > LOD			
9	0	None > LOD	None > LOD			
9	0	None > LOD	None > LOD		 	
9	0	None > LOD	None > LOD			
6	0	None > LOD	None > LOD		l l	0
6	0	None > LOD	None > LOD			0
9	0	None > LOD	None > LOD			
9	0	None > LOD	None > LOD		0	
9	0	None > LOD None > LOD	None > LOD None > LOD		U	
9	0	None > LOD	None > LOD None > LOD		0	0
9	0	None > LOD	None > LOD		0	0
9	0	None > LOD	None > LOD		0	0
9	0	None > LOD	None > LOD		l	
9	0	None > LOD None > LOD	None > LOD None > LOD		0	
9	0	None > LOD	None > LOD None > LOD		,	
9	0	None > LOD	None > LOD		0	0
9	0	None > LOD	None > LOD			0
9	0	None > LOD	None > LOD		0	
9	0	None > LOD None > LOD	None > LOD None > LOD		 	
9	0	None > LOD None > LOD	None > LOD None > LOD		l	
6	0	None > LOD	None > LOD			0
6	0	None > LOD	None > LOD			0
6	0	None > LOD None > LOD	None > LOD None > LOD		 	0
6	0	None > LOD	None > LOD		l	0
6	0	None > LOD	None > LOD			ő

M4CAN Groundwater Analysis Results & Screening Assessment CL-30 04/08/2015

Monitoring Round		Screenin	g Criteria	1	2	3		1		2		3
Location				BH541 6.67	BH541 6.73	BH541 6.72	BH539 1.97	BH539 3.57	BH539 2.1	BH539 2.84	BH539 1.49	BH539 3.04
Depth Response Zone Details (RZ)					TSG	•	HD	TSG	HD	TSG	HD	TSG
Drainage Area	Units	EQS	DWS	Magor Area 5 East	Magor Area 5 East	Magor Area 5 East	Magor Area 5	Magor Area 5 East	Magor Area 5 East	Magor Area 5 East	Magor Area 5 East	Magor Area 5 East
Installation Details				2-11.5	2-11.5	2-11.5	East 1-3 Shallow	5-14.2 Deep	1-3 Shallow	5-14.2 Deep	1-3 Shallow	5-14.2 Deep
Date Sampled				31/03/2015	16/04/2015	21/04/2015	24/03/2015	24/03/2015	31/03/2015	31/03/2015	16/04/2015	16/04/2015
VOCs 1,1,1,2-Tetrachloroethane	ug/l			Lo.	<2				<2	<2	<2	<2
1,1,1-Trichloroethane	ug/l	100		<1	<1				<1	<1	<1	<1
1,1,2-Trichloroethane	ug/l	400		<10	<10					<10	<10	<10
1,1-Dichloroethane 1,1-Dichloroethene	ug/l ug/l			<1	<1 <1				<1	<1 <1	<1 <1	<1 <1
1,1-Dichloropropene 1,2,3-Trichlorobenzene	ug/l ug/l	0.4		<1	<1 <2				<1	<1 <2	<1 <2	<1
1,2,3-Trichloropropane	ug/I			<50	<50				<50	<50	<50	<50
1,2,4-Trichlorobenzene	ug/l	0.4		<1	<1				<1	<1	<1	<1
1,2,4-Trimethylbenzene 1,2-Dibromo-3-Chloropropane	ug/l ug/l			<1 <50	<1 <50				<1 <50	<1 <50	<1 <50	<1 <50
1,2-Dibromoethane 1,2-Dichlorobenzene	ug/l ug/l	20		<5	<5 <1				<5 <1	<5 <1	<5 <1	< √1
1,2-Dichloroethane	ug/l	10	3	<2	<2					<2		<2
1,2-Dichloropropane	ug/I			<1	<1 <1				<1	<1 <1	<1 <1	<1 <1
1,3,5-Trimethylbenzene 1,3-Dichloropropane	ug/l ug/l			<2	<2					<2	<2	<2
1,4-Dichlorobenzene	ug/l	20		<1	<1				<1	<1	<1	<1
2-Chlorotoluene 4-Chlorotoluene	ug/l ug/l			<1	<1				<1	<1 <1	<1 <1	<1
4-Isopropyltoluene	ug/l	+0		<1	<1	-1	-1	-1	<1	<1	<1	<1
Benzene Bromobenzene	ug/l ug/l	10	1	<1	<1 <1	×1	×1	×1	<1 <1	<1 <1	<1 <1	<1 <1
Bromochloromethane	ug/l		100	<5	<5				<5	<5	<5	<5
Bromodichloromethane Bromomethane	ug/l ug/l			<5	<s< td=""><td></td><td></td><td>-</td><td><5 <5</td><td><5 <5</td><td><5 <5</td><td>< <</td></s<>			-	<5 <5	<5 <5	<5 <5	< <
Chlorobenzene	ug/l			<1	<1					<1	<1	<1
Chloroethane Chloroethene	ug/l ug/l	_		<1	<1	 	 		<1	<1 <1	<1 <1	<1 <1
Chloroform	ug/l	2.5	100	<1	<1 <1				<1	<1 <1	<1 <1	<1
ris-1.2-Dichloroethene	ug/l ug/l			<1	<1			-	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/l		4	<10	<10				<10	<10	<10	<10
Dibromochloromethane Dibromomethane	ug/l ug/l		100	<10 <10	<10 <10			-	<10 <10	<10 <10	<10 <10	<10 <10
Dichlorodifluoromethane	ug/l			<1	<1				<1	<1	<1	<1
Ethylbenzene Hexachlorobutadiene (HCBD)	ug/l ug/l	20		<1	<1	<1	<1	<1	<1	<1 <1	<1 <1	<1
Isopropylbenzene	ug/l			<1	<1				<1	<1	<1	<1
m,p xylenes Methyl tert-butyl ether (MTBE)	ug/l ug/l	30		<1 <1	<1	<1	<1	<1		<1 <1	<1 <1	<1
n-Butylbenzene	ug/l			<1	<1				<1	<1	<1	<1
n-propylbenzene D-Xylene	ug/l ug/l	30		<1 <1	<1	<1	<1	<1	<1	<1 <1	<1 <1	<1 <1
Sec-Butylbenzene	ug/l			<1	<1				<1	<1	<1	<1
Styrene Tert-Butylbenzene	ug/l ug/l	50		<1 <1	<1				<1	<1 <1	<1 <1	<1
Tetrachloroethene	ug/I	10	10	<1	<1				<1	<1	<1	<1
Tetrachloromethane (Carbon Tetra Ch Toluene	ug/l ug/l	12 50	3	<1	<1 <1	<1	<1	<1	<1 <1	<1 <1	<1 <1	<1 <1
trans-1,2-Dichloroethene	ug/l			<1	<1				<1	<1	<1	<1
trans-1,3-Dichloropropene Tribromomethane	ug/l ug/l		100	<10 <1	<10 <1				<10 <1	<10 <1	<10 <1	<10 <1
Trichloroethene	ug/I	10	10	<1	<1				<1	<1	<1	<1
Trichlorofluoromethane SVOCs	ug/l			<1	<1				<1	<1	<1	<1
1,3-Dichlorobenzene	ug/l	20			<0.5				<0.5	<0.5		<0.5
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	ug/l 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
2,4-Dichlorophenol	ug/l	20		<0.5	<0.5				<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol 2,4-Dinitrotoluene	ug/l 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
2,6-Dinitrotoluene	ug/l			<0.5	<0.5				<0.5	<0.5	<0.5	<0.5
2-Chloronaphthalene 2-Chlorophenol	ug/l ug/l	50		<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-Methyl-4,6-Dinitrophenol	ug/l	-		< 0.5	<0.5				<0.5	<0.5	< 0.5	<0.5
2-Methylnaphthalene 2-Methylphenol	ug/l ug/l	100		<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-Nitroaniline	ug/l			<0.5	<0.5				<0.5	<0.5	<0.5	<0.5
2-Nitrophenol 3-Nitroaniline	ug/l 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
4-Bromophenyl Phenyl Ether	ug/I			< 0.5	< 0.5				<0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-Methylphenol 4-Chloroaniline	ug/l ug/l	40		<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-Chlorophenyl Phenyl Ether	ug/I			<0.5	<0.5				<0.5	<0.5	<0.5	<0.5
4-Methylphenol 4-Nitroaniline	ug/l ug/l	100		<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-Nitrophenol				<0.5	< 0.5				<0.5	< 0.5	< 0.5	< 0.5
Azobenzene Bis(2-chloroethoxy)methane	ug/l 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
Bis(2-chloroethyl)ether	ug/l			<0.5	<0.5				<0.5	<0.5	<0.5	<0.5
Bis(2-chloroisopropyl)ether Bis(2-ethylhexyl)phthalate	ug/l ug/l	1.3		<0.5 <0.5	<0.5 <0.5				<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
Butylbenzylphthalate	ug/l	20		<0.5	<0.5				<0.5	<0.5	<0.5	<0.5
Carbazole Dibenzofuran	ug/l 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
Diethylphthalate	ug/l	200		< 0.5	< 0.5				<0.5	< 0.5	<0.5	< 0.5
Dimethylphthalate Di-N-Butyl Phthalate	ug/l ug/l	800		<0.5	<0.5 <0.5				<0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
Di-N-Octyl Phthalate	ug/I	20		<0.5	<0.5				<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene (HCB) Hexachlorocyclopentadiene	ug/l ug/l	0.05		<0.5 <0.5	<0.5 <0.5				<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
Hexachloroethane	ug/l			<0.5	<0.5				<0.5	<0.5	<0.5	<0.5
sophorone	ug/I			<0.5	<0.5				<0.5	<0.5	<0.5	<0.5
Nitrobenzene n-nitrosodimethylamine	ug/l 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
n-nitrosodimethylamine N-Nitroso-Di-N-Propylamine Pentachlorophenol (PCP)	ug/l	0.4		<0.5 <0.5	<0.5 <0.5				<0.5	<0.5 <0.5	<0.5 <0.5	<0.5
PCBs		0.4							-0.3	.0.3		
Pcb-101 2,2',4,5,5' - Pentachlorobiphe	ug/l			<0.01	<0.01						<0.01	<0.01
Pcb-118 2,3',4,4',5 - Pentachlorobiphe Pcb-138 2,2',3,4,4',5' - Hexachlorobiph	ug/l ug/l			<0.01 <0.01	<0.01 <0.01			-		-	<0.01 <0.01	<0.01 <0.01
Pcb-138 2,2',3,4,4',5' - Hexachlorobiph Pcb-153 2,2',4,4',5,5' - Hexachlorobiph Pcb-180 2,2',3,4,4',5,5' - Heptachlorob	ug/I			< 0.01	< 0.01						< 0.01	<0.01
rcp-180 2.2'.3.4.4'.5.5' - Heptachlorob	ug/l	i	1	< 0.01	< 0.01	1	1	1		1	< 0.01	< 0.01

			Screening \	Values & Assessment
	Geological Fo	rmation Legend	EQS	Environmental Quality Standards
	TSG	Tintern Sandstoen Group	DWS	Drinking Water Standard
	HD	Head Deposits		Exceeds EQS
			Х	Exceeds DWS
			X	Laboratory detection level higher than screening criterion

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Column	Date Sampled				31/03/2015	16/04/2015	21/04/2015	24/03/2015	24/03/2015	31/03/2015	31/03/2015	16/04/2015	16/04/2015	1	No.	No. Analyses	Maximum	Minimum	Location & Depth of	No. Data	No. Data
A	VOCs													1	Allalyses	ADOVE LOD			Maximum Concentration	Exceeding EQ3	Exceeding DWS
1.5 Methods 10	1,1,1,2-Tetrachloroethane				<2	<2				<2	<2	<2	<2			0					
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Add	1,1-Dichloroethane				<1	<1				<1	<1	<1	<1	1		0				-	
24 - 24 - 25 - 25 - 25 - 25 - 25 - 25 -	1,1-Dichloroethene	ug/l			<1	<1						<1	<1		6	0	None > LOD	None > LOD			
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All					<1 <50					<50	<50	<50	<50								
Administration Age	1,2-Dibromoethane	ug/l			<5	<5				\$	<5	<5	⋖5		6	0	None > LOD	None > LOD			
24 Memory 19 1	1,2-Dichlorosthans		20	2	<1	41				d 2	<1	<1	4	4	6	0					0
4		ug/l	10	,	<1	<1				4	<1	<1	<1	1		0				, and	Ü
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Company			20		<2	<2				<2 <1	<2	<1	<1	4	6		None > LOD	None > LOD		0	
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Series		ug/l			<1	<1				<1	<1	<1	<1			0					
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A	Bromobenzene				<1	<1				<1	<1	<1	<1		6		None > LOD	None > LOD			
A				100	<5 <5	<s <s< td=""><td></td><td></td><td></td><td><s< td=""><td><5 <5</td><td><5 <5</td><td><5</td><td></td><td>6</td><td></td><td></td><td></td><td></td><td></td><td>0</td></s<></td></s<></s 				<s< td=""><td><5 <5</td><td><5 <5</td><td><5</td><td></td><td>6</td><td></td><td></td><td></td><td></td><td></td><td>0</td></s<>	<5 <5	<5 <5	<5		6						0
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Transplant 4 1 1 1 1 1 1 1 1 1		ug/l			<1	<1				-	-	<1	<1			-					
Transferred Market 1 25 190 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chloroethane		 	1	<1	4	l				-	<1		1	6		None > LOD				
14.1 Contention of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the propert	Chloroform	ug/l	2.5	100	<1	<1				<1	<1	<1	<1	1	6	0	None > LOD	None > LOD		0	0
\$\frac{1}{2} \text{Statements} \text{ \$\text{cal}{\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{ \$\text{State}} \text{State}} \text{ \$\text{State}} \text{State}} \$\text{St			-	-	<1	<1	-			<1 <1	<1	<1	<1	4	6	0	None > LOD	None > LOD		-	l
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Attended	Dibromochloromethane	ug/l		100	<10									1							0
September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September Sept	Dibromomethane Dichlorodifluoromethane		-	-	<10 <1	<10 <1				<10	<10 <1	<10 <1	<10	1	6		None > LOD None > LOD	None > LOD None > LOD			
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Marchaelenean	Sec-Butylbenzene	ug/l			<1	<1				<1	<1	<1	<1				None > LOD	None > LOD			
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restationaries (action func) (apr.) 10. 1			10	10	<1	41				<1	<1	<1	<1	1						0	0
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New York			100		-610									ł		-				0	
Netropale wg	2-Nitroaniline	ug/l			<0.5	<0.5				<0.5	<0.5		<0.5	1	6		None > LOD	None > LOD		-	
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Methylpherial wg 10 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0			-	-	<0.5 <0.5		-							1		-					
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un/percept/phalphate ug/l 20 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 cd.5 <td>Bis(2-ethylhexyl)phthalate</td> <td>ug/l</td> <td></td> <td></td> <td></td> <td><0.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><0.5</td> <td>1</td> <td>6</td> <td></td> <td>None > LOD</td> <td>None > LOD</td> <td></td> <td></td> <td></td>	Bis(2-ethylhexyl)phthalate	ug/l				<0.5							<0.5	1	6		None > LOD	None > LOD			
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	Isophorone	ug/l			<0.5	<0.5				<0.5	<0.5	<0.5	<0.5	1	6	0	None > LOD	None > LOD			
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th-1802.72,44.75,5'-Heptathords ugf	Pcb-118 2,3',4,4',5 - Pentachlorobiphe	ug/l												7							
tb-28_2,4,4"-Trichlararbiphenyl ug/l <0.01 <0.01 <0.01 <0.01 4 0 None>LOD None>	Pcb-118 2,3',4,4',5 - Pentachlorobiphe Pcb-138 2.2',3,4,4',5' - Hexachlorobiph	ug/l			< 0.01	< 0.01						< 0.01	< 0.01	ļ	4	0	None > LOD	None > LOD			
tcb-52 2,2',5,5'-Tetrachlorobiphenyl ug/l <0.01 <0.01 <0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	Pcb-118 2,3',4,4',5 - Pentachlorobiphe	ug/l ug/l			<0.01 <0.01	<0.01 <0.01						<0.01 <0.01	<0.01 <0.01		4	0	None > LOD None > LOD	None > LOD			
	Pcb-118 2,3',4,4',5 - Pentachlorobiphe Pcb-138 2,2',3,4,4',5' - Hexachlorobiph Pcb-153 2,2',4,4',5,5' - Hexachlorobiph Pcb-180 2,2',3,4,4',5,5' - Heptachlorob Pcb-28 2,4,4' - Trichlororbiphenyl	ug/l ug/l ug/l ug/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		4	0 0	None > LOD None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			

Appendix 4

Site Walkover Photographs



Plate 01: CL30 – View Looking South



Plate 02: CL30 – View Looking North

Client:	Welsh Government
Client:	Welsh Governmen

Project: M4CaN

Job Ref: JER6591 Checked By: Date: May 2015



Plate 03: CL30 – Slope towards railway line

Client: Welsh Government

Project: M4CaN

Job Ref: JER6591 Checked By: Date: May 2015

Welsh Government

M4 Corridor around Newport

Land Contamination Assessment Report Annex D CL-32 Magor Depot Land Contamination Assessment Report

M4CaN-DJV-EGT-ZG_GEN-RP-EN-0021

At Issue | March 2016

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1 Introduction

1.1 Background

- **1.1.1** This report relates to an area of land potentially affected by contamination (CL-32) known as 'Magor Depot' hereafter referred to as the 'Site'.
- **1.1.2** The Site is located between chainage 20,600 and 20,800 (see Figure 1), upon a former fuel depot.

1.2 Reporting Context

- 1.2.1 The Site has been associated with several phases of ground investigation and monitoring associated with the wider works for the M4 Corridor around Newport (M4CaN) (hereafter referred to as the 'Scheme') and informs the baseline for the environmental impact assessment (EIA) for the Scheme. The EIA is reported in the M4CaN Environmental Statement (ES) of which this document is an appendix to the chapter on Geology and Soils.
- 1.2.2 In 2014, a Preliminary Sources Study Report (PSSR, 2014) was prepared as an initial land contamination appraisal (Ove, Arup & Partners, 2014) as part of the Design Manual for Roads and Bridges (DMRB) Stage 2 Assessments for this Scheme. This identified a number of individual areas that may have been affected by contamination as a result of historical activities at the Site.
- 1.2.3 This report now draws upon information available from the 2015 Supplementary Ground Investigation Works undertaken (Geotechnical Engineering, 2015) as well as an additional targeted ground investigation on behalf of the Welsh Government (RPS, 2015). This report relates to the area defined in the Site Plan shown in Figure 1.
- 1.2.4 The overarching rationale and approach for the assessment of areas of land along the Scheme with potential contamination is detailed in the Land Contamination Assessment Report (Appendix 11.1 of the ES).

1.3 Objectives

- **1.3.1** The key objectives of this report are as follows.
 - Undertake a risk assessment of the Site and determine whether potential risks to human health or controlled waters could exist as a result of the Scheme.
 - Identify any further assessments and investigations that are needed in order to refine land contamination risks and inform on the need for remediation.
 - To provide information to support the Ground Investigation Report and Geotechnical Design Report required under DMRB HD22/08 (Highways Agency, 2008).

1.4 Report Structure

- Section 2: Site Location and Description This section summarises the Site description.
- Section 3: The Scheme This section details the new section of motorway alignment and associated features at the Site.
- Section 4: Site History This section summarises the history of the Site based on historical maps and historical aerial photographs.
- Section 5: Environmental Setting This section summarises the Site description, published geology, hydrology and hydrogeology and relevant environmental information presented in the 2014 PSSR.
- Section 6: Summary of Investigations This section describes previous and supplementary investigations undertaken at the Site.
- Section 7: Ground Conditions This section describes the main findings of the investigations including the ground conditions encountered and significant visual or olfactory evidence of contamination identified.
- Section 8: Contamination Assessment This section describes the findings of the Tier 1 and Tier 2 contamination risk assessment based upon potential contamination sources, potential receptors and potential contaminant linkages and presents the human health and controlled waters assessments.
- Section 9: Refined Conceptual Site Model This section presents the Conceptual Site Model (CSM) for the Site and identifies potential contaminant linkages, based upon the findings of the data presented within Sections 2 to 7.
- Section 10: Conclusions and Recommendations This section provides conclusions concerning the likelihood of land contamination associated with the Site affecting the Scheme and requirements for remediation / mitigation.
- Section 11: References This section summarises the key documents referred to in this report.
- Section 12: Glossary This section provides a summary of terms used in this report.

2 Site Location and Description

- 2.1.1 The Site is located approximately 500 m north west of Magor town centre and approximately 300 m south of the existing M4 Junction 23A. The Site is centred on National Grid Reference ST 419 875. Magor Depot is also known as Wilcrick Depot. The location and layout of the Site is presented on Figure 1.
- 2.1.2 The Site is bounded by the A4810 to the west and associated slip road to the south and east. The B4245 Newport Road forms the northern boundary. The Site is situated at an elevation of approximately 26.9 m AOD in the north-west sloping to approximately 20.5 m AOD in the south east.
- 2.1.3 The South Wales Trunk Road Agency (SWTRA) currently occupies the Site which comprises an office / cafeteria building, a salt hopper and storage sheds. The Site has previously been referred to as a fuel depot.
- 2.1.4 A Site walkover survey undertaken in September 2015 identified the Site as being an operational depot primarily used for the storage of rock salt, understood to be for use on roads during winter periods.
- 2.1.5 The Site was noted as being split level, separated by an embankment, each level having its own vehicular access. The upper level includes site offices, car parking areas, a salt storage building, and the top of the salt hopper. The lower level includes a maintenance building, external stores, the bottom of the salt hopper and external storage/vehicle access areas.
- **2.1.6** The majority of the Site comprises hardstanding with vegetated areas around the periphery and the embankment.

3 The Scheme

- 3.1.1 The Site is located on the proposed new section of motorway at approximate chainage 20,600 to 20,800. Reference should be made to Figure 1 for the Site location in relation to the Scheme proposals.
- 3.1.2 The proposed new section of motorway at this location is at a reduced elevation in relation to existing ground level and therefore, a cut to existing ground level is required. The highway verges are to be landscaped and incorporate highway drainage.
- 3.1.3 The intention is that materials arising from the excavations will be removed from their current location and reused within the Scheme.
- 3.1.4 A potential borrow pit area is located to the south of the Site and to the north Newport Road will be rerouted on an embankment approximately 2-4 m above existing ground level.

4 Site History

- **4.1.1** The 2014 PSSR historical searches were based on Ordnance Survey plans, literature reviews, information from Natural Resources Wales (NRW) (formerly Environment Agency Wales) and Newport City Council and aerial photographic interpretation.
- **4.1.2** This has been supplemented by the review of historical maps obtained in 2015 from the Welsh Government. Relevant extracts are presented in Appendix 6.
- **4.1.3** A summary of the Site's history is presented in Table 1 below.

Table 1: Site History

Date	Use	Source of information				
1843 - 1893	The Site comprises agricultural fields. To the north is a road running north-west to southeast. To the south-east and north-east are old quarries, approximately 90 m and 75 m away respectively.	1:10,560 Historical Mapping				
1891 - 1912	No significant change.	1:10,560 Historical Mapping				
1904 - 1939	No significant change.	1:10.560 Historical Mapping				
1964 - 1965	No significant change.	1:10,560 Historical Mapping				
1962	No significant change.	Aerial photograph				
1966	The Site appears to be under construction with excavation taking place.	Aerial photograph				
1969	A rectangular building is present in the centre of the Site. A road loops the Site running along the east, south and west boundaries. The B4245 now runs along the Site's northern boundary. The M4 J23A has been developed approximately 200 m to the north. The town of Magor has expanded to within 150 m east of the Site.	Aerial photograph				
1981	The majority of the Site appears to comprise a yard laid to hardstanding. A second industrial unit has been developed on the Site in the south-western area. Evidence of material stockpiling in the yard in the north- western area of the Site.	Aerial photograph				
1985 - 1996	The Site is now labelled as a <u>depot</u> . The road running north-south along the western boundary has been extended. A brewery has been developed to the west. The town of Magor has expanded southwards and westwards. A Police Station is now located to the north.	1:10,000 Historical Mapping				
1991	Storage of materials identified on hardstanding. A salt hopper is located in the centre of the Site.	Aerial Photography				

Date	Use	Source of information
2006	Storage of materials on hardstanding. A number of storage containers are present. Two above ground tanks are located central northern site areas.	Aerial Photography
2009 - 2010	No significant change.	Aerial Photography
2013 - 2014	Two rectangular office buildings have been constructed in the north-west corner of the Site.	Aerial Photography

Notes: Potential sources of contamination are <u>underlined</u>. Those within the temporary and permanent land take are shown in **bold**.

- 4.1.4 The sources of information presented above supplement those used in the 2014 PSSR. In particular, the 2006 aerial image shows the presence of above ground tanks. Relevant photographic extracts are presented in Appendix 6.
- **4.1.5** Earthworks associated with the construction of the Motorway Maintenance Depot are identified within the Site history section of the 2014 PSSR. However no dates are given.
- **4.1.6** The Site is currently occupied by the South Wales Trunk Road Agency (SWTRA).
- 4.1.7 Historically the Site is located in proximity to areas which may have been bombed during World War II, which is discussed in the Explosive Ordnance Threat Assessment Report (Bactec, 2014). This report categorises the Site as low risk with respect to unexploded ordnance.

5 Environmental Setting

5.1 Geology

- 5.1.1 The geological map indicates there are no superficial deposits within the Site area. However River Terrace Deposits (sand and gravel) are shown immediately south of the Site.
- 5.1.2 British Geological Survey (BGS) data indicates that the western part of the Site is underlain by bedrock of the Tintern Sandstone Formation, and the eastern part is underlain by the Avon Group Carboniferous Limestones.

5.2 Hydrology

5.2.1 There are no surface water features within the Site boundary or within 500 m of the Site.

5.3 Hydrogeology

- **5.3.1** NRW classifies the Tintern Sandstone Formation and the Avon Group as Principal Aquifers.
- **5.3.2** The Site does not lie within a groundwater Source Protection Zone.

5.4 Environmental Information

- 5.4.1 No pollution incidents, abstraction licences, discharge points or landfill sites have been recorded within the Site or within 300 m of the Site.
- One company located within 300 m to the west of the Site holds an environmental permit as detailed in Table 2.

Table 2: Environmental Permit (off site)

Address/ Licence	Industry	Process	Year	Release Environment	Substances Released
The Brewery, Newport Road, Mangor, Gwent BX7282IS	Other Industry	Animal, vegetable and food	2005 to 2012	Air	Carbon monoxide, carbon dioxide, nitrogen oxides, VOCs, inorganic chlorine compounds, hydrogen chloride, asbestos, ammonia

5.4.3 Residual levels of potential contamination associated with the above environmental permit are considered unlikely to affect the Site.

6 Scope of Investigations

6.1 General

6.1.1 Five intrusive ground investigations are available that include works within the Magor Depot Site. These are summarised below.

6.2 Scope of Works

6.2.1 The various intrusive ground investigations undertaken within the Site area are summarised in Table 3.

Table 3: Site Investigation Summary

Date	Contractor	Site Location	Boreholes	Window Sampler	Trial Pits	Sampling
1997	Norwest Holst	West	BHN3, BHN3A	-	-	Soil
2000	Exploration Associates	South-west	CH55, CH56	-	-	Soil & leachate
2008	Norwest Holst	North-west and south- east	-	SWSN01, SWSN02, SWSN02A	STPN01, STPN02	Soil & leachate
2015	Geotechnical Engineering	South	BH544	-	-	Soil
2015	Costain/Vinci Joint Venture (for Welsh Government)	South	CL32-02, CL32-03, CL32-06, CL32-07, CL32-08, CL32-09	-	-	Soil and groundwater

6.2.2 The construction details of all boreholes installed on the Site are summarised in Table 4.

Table 4: Summary of Borehole Construction Details

Borehole ID	Diameter (mm)	Total Drilled Depth (m)	Top of Slotted Well Casing / Gravel Pack (m bGL)	Base of Slotted Well Casing / Gravel Pack (m bGL)	Targeted Geology
BH544	50	18.4	1	18.4	Bedrock (Tintern Sandstone Formation)
CL32-03	50	12.2	1	7	Bedrock (Tintern Sandstone Formation)
CL32-09	50	10.0	5	10	Bedrock (Tintern Sandstone Formation)

6.3 Surface Water Quality Sampling

6.3.1 Surface water quality monitoring was not undertaken during the previous ground investigations of the Site.

6.4 Field Testing

Photo Ionisation Detector (PID) monitoring for Volatile Organic Compounds (VOCs) was undertaken on shallow soil samples at location STPN01 (see Figure 1 for location).

6.5 Groundwater Monitoring

6.5.1 A summary of the groundwater sampling, groundwater monitoring and ground gas monitoring rounds undertaken at the onsite boreholes is shown in Table 5.

Table 5: Summary of Monitoring Rounds

Location Ref.	Number of Rounds (Date of Sampling)	Monitoring details	Notes
BH544 (50 mm)	5 no. 17 th April 2015, 24 th April 2015, 1 st May 2015, 11 th May 2015,15 th October 2015	Groundwater – level and sampling Soil Gas	
CL32-03	1 no. 15 th October 2015	Groundwater – level and sampling Soil Gas	Borehole dry
CL32-09	1 no. 15 th October 2015	Groundwater – level and sampling Soil Gas	-

6.6 Laboratory Chemical Testing

6.6.1 A summary of all laboratory analysis undertaken on soil, groundwater and leachate samples is summarised in Table 6 below.

Table 6: Summary of Analysis

Site Investigation Date	No. of Soil Samples	No. of Leachate Samples	No. of Water Samples	Suites of Testing
1997	1	0	0	Metals, pH, phenols, sulphate and cyanide
2000	3	1	0	Metals, pH, phenols, sulphate, cyanide, PAH and TPH
2008	7	4	0	Metals, pH, phenol, sulphate, cyanide, asbestos, TPH, PAH, PCBs, BTEX, VOCs and SVOCs
2015	2	0	3	Metals, PAH, TPH, pH, cyanide, sulphate, sulphur, nitrate, MTBE, BTEX, phenols, VOCs, SVOCs, dibenzofurans, asbestos, PCBs, TOC
2015	5	0	2	Metals, GRO, TPH, PAH, pH, asbestos (soils) Metals, TPH, PAH, VOCs, SVOCs, sulphate, PCBs, pH and water quality parameters.

Soil Analysis

- 6.6.2 The following sections summarise the laboratory analytical results for soil samples collected during the various intrusive investigation phases. The available data set has been tabulated and is presented in Appendix 3 with supporting laboratory certificates available in the relevant original ground investigation reports (see Table 3).
- 6.6.3 For assessment, the analytical data from the Made Ground has been assessed separately from those of the natural soils (the various lithologies associated with the Bedrock i.e. Tintern Sandstone and Avon Group Limestones).
- 6.6.4 For the purpose of meeting the requirements of DMRB HD22/08 (Highways Agency, 2008), the historical data used to support the PSSR and the additional 2015 information (Geotechnical Engineering, 2015 and Costain/Vinci Joint Venture, 2015) have been differentiated in the following sections.
- **6.6.5** The available information used in this assessment is summarised in Table 7.

Table 7: Summary of Analytical Soil Data

Formation	Number of Soil Analysis per Analytical Suite - 2015 data/ All Gl data									
Unit	Metals & Inorganics	PCBs	PAH	ТРН	Phenol	BTEX	Pthalates	VOCs	SVOCs	
Made Ground	6 / 11	1/3	6 / 10	5/9	1/6	1/3	1/2	1/3	1/2	
Natural Soils	1/6	0/4	1 / 6	1/6	0/5	0/4	0 / 4	0/5	0 / 4	

Soil Leaching Analysis

6.6.6 The available information is presented in Appendix 5 and summarised in Table 8.

Table 8: Summary of Soil Leaching Analytical Data

Formation Unit	Number of Soil Leachate Analysis per Analytical Suite - 2015 data / All Gl data					
	Metals & Inorganics	Total Petroleum Hydrocarbon				
Made Ground	0/1	0/1				
Natural Soils	0/3	0/0				

Groundwater Results

- 6.6.7 The following sections summarise the laboratory analytical results for groundwater samples collected during the various intrusive investigation phases. The available data has been tabulated and is presented in Appendix 4 with supporting laboratory certificates available in the relevant original reports.
- 6.6.8 The available data relates to groundwater samples taken from the wells installed within the groundwater of the Bedrock (Tintern Sandstone Formation) and is summarised in Table 9.

Table 9: Summary of Analytical Groundwater Data

Groundwater	Number of Groundwater Analysis per Analytical Suite (number of well locations) - 2015 data / All Gl Data							
Unit	Metals & Inorganics	PAH	ТРН	Phenol	втех	VOCs	SVOCs	
Principal Aquifer (Bedrock)	5 (2) / 5 (2)	5 (2) / 5 (2)	5 (2) / 5 (2)	3 (1) / 3 (1)	5 (2) / 5 (2)	5 (2) / 5 (2)	5 (2) / 5 (2)	

6.7 Gap Analysis of Available Data

6.7.1 The most recent ground investigation undertaken by RPS on behalf of Welsh Government (RPS, 2015) has sought to target gaps in the existing ground investigation data.

7 Ground Conditions

7.1 Geology

7.1.1 The geological logs for all available exploratory holes excavated on or in close proximity to the Site are provided in Appendix 1. The observed geological sequence is consistent with that discussed in the 2014 PSSR and is summarised in the following sections. Information from the Supplementary Ground Investigation (Geotechnical Engineering, 2015) and additional ground investigation undertaken on behalf of the Welsh Government (RPS, 2015) has also been used.

Made Ground

- 7.1.2 Made Ground was encountered beneath a concrete slab at all exploratory locations (with the exception of CH55 and CH56) with thicknesses generally ranging between 0.2 m and 0.7 m. At borehole BHN3, a localised thicker layer of 2.7 m was identified overlying 300 mm of topsoil.
- 7.1.3 Made Ground typically comprised limestone gravel representing a sub-base material. At borehole BHN3 the sub-base was underlain by Made Ground which comprised gravel and hardcore rubble with brick fragments.
- **7.1.4** At CH55, a concrete slab was not encountered but loose Made Ground was evident including slag and ash identified to 0.25 m depth.

Superficial Deposits

7.1.5 No superficial deposits were identified on site.

Solid Geology

- **7.1.6** Beneath the Made Ground a sequence of weathered bedrock was encountered.
- 7.1.7 The bedrock encountered comprised predominantly reddish brown occasionally green or yellow mudstone, sandstone, dolomite or siltstone with a discontinuous upper stratum of stiff clay of up to 1.6 m in thickness.

Geological Sequence Summary

7.1.8 The general geological sequence identified during the previous ground investigations is summarised in Table 10.

Table 10: Summary of Geological Sequence

Unit	Description	Thickness Range (m)	Basal Depth (m bGL)
Made Ground (Sub-base)	Hardstanding overlying sub-base with coarse sand and gravel	0.18 - 0.7	0.25 - 0.7
Made Ground	Discrete area including rubble overlying a 300 mm layer of topsoil (BHN3)	2.6 - 2.9	3 - 3.2
Bedrock	Interbedded mudstone, sandstone, dolomite, limestone and siltstone.	>17.8	unproven

7.2 Visual and Olfactory Evidence of Contamination

7.2.1 A summary of visual and olfactory evidence of contamination encountered during the previous ground investigations is summarised in Table 11.

Table 11: Visual and Olfactory Evidence of Contamination Summary

Location ID	Depth (m bGL)	Strata	Evidence of Potential Contamination
Most locations (exception of CH56)	GL to 0.25-3.2	Made Ground	Concrete, tarmacadam and demolition rubbles
CH55	0 - 0.25	Made Ground	Ash and slag
STPN01	0.6	Mercia Mudstone Group Marginal Facies (limestone)	Oil / diesel coming through fractures in the bedrock - buried diesel tank in vicinity.

- **7.2.2** The PID meter recorded zero levels, indicating that no volatiles were present.
- **7.2.3** Full details and observations noted during the drilling and trial pitting are presented on the exploratory logs provided in Appendix 1.
- **7.2.4** The more recent 2015 ground investigations have in part targeted the areas previously associated with evidence of potential contamination. Visual or olfactory evidence of contamination have not been identified in these areas.

7.3 Gas Monitoring

7.3.1 The gas monitoring data available is provided on the field data sheets in Appendix 2. The maximum gas concentrations (minimum for oxygen) are presented in Table 12 below. The gas monitoring data indicates low generation sources.

Table 12: Summary of Gas Monitoring Data

Location ID	Flow (I/hr)	VOCs (ppm)	CH₄ (%/vol)	Peak LEL (%)	CO ₂ (%/vol)	O ₂ (%/vol)	CO (ppm)	H₂S (ppm)
Location ib	Max	Max	Max	Max	Max	Min	Max	Max
BH544	0.0	5.3	0.1	1.0	1.3	11.2	4	0
CL32-09	0.0	-	0.1	1.0	1.0	16.6	0	0
CL32-03	0.0	-	0.0	0.0	1.1	19.3	0	0

7.4 Groundwater

Groundwater Encountered During Investigation

7.4.1 Groundwater strikes were encountered during the construction of a number of boreholes as detailed on the geological logs provided in Appendix 1. These are summarised below in Table 13.

Table 13: Summary of Groundwater and Leachate Water Level Data

Location	Strike Depth (m bGL)	Geological Formation	Level after 20 minutes (m bGL)	Comments
SWSN01	0.4	Made Ground (Sub- base)	0.4	Top of Sandstone
CL32-03	5.5	Tintern Sandstone Formation	-	-
CL32-09	2.7	Tintern Sandstone Formation	-	-

7.4.2 Groundwater was not identified in any other boreholes or trial pits during the previous ground investigations.

Groundwater Level During Monitoring Rounds

7.4.3 Data relating to groundwater levels for the Site are provided in Appendix 2 and summarised in Table 14.

Table 14: Summary of Groundwater Level Data

Location	Installation	Depth of Response Zone (m bGL) and Geological Formation	No. Measurements	Min Level (m bGL)	Max Level (m bGL)	Comments
BH544	Single	1 - 18.4 Bedrock (Tintern Sandstone)	3	8.34	9.72	Good recharge
CL32-09	Single	5 - 10.0 Bedrock (Tintern Sandstone)	1	8.14	8.14	Slow recharge

Groundwater Summary

- **7.4.4** A perched water body, probably discontinuous has been identified at the interface between the Made Ground and the underlying bedrock at the Site.
- **7.4.5** The deep groundwater body within the bedrock has been identified with a water level around 8 m bGL.

8 Contamination Assessment

8.1 Introduction

- **8.1.1** The following sections provide details of the assessment of land contamination at the Site.
- 8.1.2 The Conceptual Site Model (CSM) presented within the 2014 PSSR has been reviewed and updated based on data from the Supplementary Ground Investigation (Geotechnical Engineering, 2015), the 2015 Ground Investigation (RPS, 2015) and the Scheme. The main alterations to the 2014 PSSR model are summarised as follows.
 - Inclusion of groundwater quality and level data.
 - Inclusion of gas monitoring data.
 - Update of the source-pathway-receptor linkages taking account of the above and more detailed assessment.

8.2 Preliminary Risk Assessment

Potential Sources

- 8.2.1 The historical data review and walkover survey indicate the Site has been used as a fuel depot, for storage of chemical drums and as a maintenance depot. The Site also includes the presence of buried fuel tanks. These are a potential source of contamination at the Site. A buried diesel tank was identified in the south west of the Site during the 2007 site investigation.
- 8.2.2 It is anticipated that the Made Ground and fuel tanks and associated hydrocarbon contamination will be removed as part of the construction works and therefore, no source of contamination will remain post construction. However, there is a possibility of residual contamination remaining within the underlying bedrock presenting a risk to maintenance workers and controlled waters. Such impact has been identified near STPN01 where oil/diesel was reported to be evident within fractures in the bedrock.

Potential Receptors

8.2.3 Receptors during the construction and operational stages of the Scheme have been considered:

Construction

- Construction workers during site development works.
- General public adjacent to construction works.
- Groundwater in the Principal aguifer within the bedrock.

Operational

- Maintenance workers.
- General public end users.

- General public adjacent to permanent land take.
- Groundwater in the Principal aquifer within the bedrock.

Potential Pathways

- **8.2.4** Pathways during the construction and the operational stages of the Scheme have been considered.
 - Dermal contact, ingestion, inhalation pathways of potentially contaminated soils possible during development and maintenance works.
 - Inhalation pathways possible for general public end users and adjacent general public/workers.
 - Leaching of contaminants from the Made Ground into the groundwater.
 - Vertical or lateral migration of free phase hydrocarbon product or dissolved product to groundwater.
 - Vertical or lateral migration of ground gas associated with Made Ground and hydrocarbon impacted soils or groundwater.

8.3 Risk Evaluation

- 8.3.1 Source-pathway-receptor linkages were considered in the 2014 PSSR using the historical data available up to 2008. With review of the other data described herein, the following risk evaluation has been reconsidered and included.
 - The Site has been subject to potential contaminative uses, including use as a fuel depot and the presence of at least one buried diesel tank has been identified.
 - Made Ground with perched shallow groundwater is directly overlying a Principal Aquifer.
 - A below ground fuel tank may have impacted underlying soils, rock and groundwater. Given the shallow extent of Made Ground and the absence of superficial deposits, any below ground tanks are likely to be contained within the solid bedrock.
 - Considering the identified land use, organic compounds are considered to be the main contaminants of concern.
 - Made Ground was generally limited to sub-base type material with an overlying concrete slab. The latter would likely act as a barrier against vertical migration of accidental surface spillages, where condition and integrity is good.
 - Details of the surface water drainage system are unknown.
 - Visible oil/diesel has been identified within the bedrock in proximity to a buried diesel tank at the Site (STPN01).
 - The proposed works will include a shallow cutting on the Site which will likely remove any Made Ground materials within the Scheme area. All buried fuel tanks, if present, would also be removed as part of the construction works.
 - Hardstanding cover which is proposed in some areas of the motorway corridor is likely to limit infiltration thereby reducing leaching.

- No surface water features are identified within or in close proximity to the Site.
- Motorway users will be within an open environment with no proposed structures or other confined spaces.

8.4 Human Health Risk Assessment

8.4.1 The rationale and approach for the human health (Tier 2) screening assessment is detailed in the Land Contamination Assessment Report (Appendix 11.1 of the ES). Soil chemical analysis results and the findings of the generic Tier 2 human health risk assessment are presented in Appendix 3. All exceedances of relevant generic risk assessment criteria are summarised in Table 15 and 16.

Table 15: Summary of Human Health Soil Screening Exceedances: Made Ground

Determinand	Units	Range	Screening Criteria	No. Samples Exceeding Screening Criteria (Total Number of Results)	Locations of Exceedances
рН	pH units	7.6 - 11.59	6 - 9	7 (11)	CH55, STPN02, SWSN01, BH544, CL32- 06, CL32-08, CL32-09
Chromium	mg/kg	6.1 - 57.3	33	2 (11)	BHN3, CL32-06
PAH	mg/kg	<0.05 - 4980	1.1	2 (10)	CH55 x 2
TPH	mg/kg	<0.01 - 6100	3200	1 (5)	CH55

Table 16: Summary of Human Health Soil Screening Exceedances: Natural Soils

Determinand	Units	Range	Screening Criteria	No. Samples Exceeding Screening Criteria (Total Number of Results)	Locations of Exceedances
рН	pH units	8.1 - 9.49	6 - 9	3 (6)	STPN01, SWSN01, CL32-07
Chromium	mg/kg	18 - 35	33	1 (6)	SWSN02

- 8.4.2 Alkaline soil conditions have been identified in half of the samples, mainly within the Made Ground material but also within the bedrock at three locations.
- 8.4.3 Although exceedances for chromium are present in both Made Ground and the bedrock, the criterion relates to the hexavalent form. All results are considered to be within normal background range (<95 mg/kg) and therefore are not considered to represent a contaminant of concern (Appendix 11.1 of the ES).

- 8.4.4 The PAH exceedances are reported for samples analysed without speciation. In this instance the criterion for total PAH has been taken considering the most stringent PAH compound (Dibenzo(ah)anthracene). Whilst this is considered to be a conservative initial approach, it is noted that both these exceedances relate to superficial Made Ground material at one location (CH55) and are well above concentrations observed in the remaining data set for the same geological unit. This is likely to represent a discrete area of contamination.
- 8.4.5 In addition to the identified exceedances, elevated oil was identified within the Made Ground at CH55 with a concentration of 15,900 mg/kg. No VOC analysis was undertaken at this location to enable the molecular status of the oil to be determined..
- 8.4.6 The laboratory detection limit was higher than the screening criterion for some PAH and VOC compounds. Risks to human health associated with these are considered to be low given the low concentrations recorded.

8.5 Controlled Waters Screening Assessment

- 8.5.1 The rationale and approach for the controlled waters (Tier 1) screening assessment is detailed in the Land Contamination Assessment Report (Appendix 11.1 of the ES) and the groundwater chemical results are presented in Appendix 4. All exceedances of relevant generic criteria are summarised in Table 17 for soil leachate.
- 8.5.2 Where an Environmental Quality Standard (EQS) is dependent on water hardness i.e. some heavy metals, the hardness of the surface water receptor would normally be used. The Baseline Water Environment Report (Appendix 16.2 of the ES) indicates surface water to be generally moderately hard with hardness concentrations within a range of 100 to 150 mg/l reported as calcium carbonate. Therefore, EQSs within this water hardness range have been used for screening purposes.

Soil Leachate Results

8.5.3 Five soil samples were subjected to leachate analysis. The majority of the soil leachate results were below the applied screening criteria, with the exception of the following contaminants shown in Table 17.

Determinand	Units	Range	EQS	DWS	No. Exceeded EQS Screening Criteria (Total Number of results)	Location (Formation)	No. Exceeded DWS Screening Criteria (Total Number of Results)	Location (Formation)
Arsenic	ug/l	<1 - 22	50	10	0 (8)	1	1 (8)	STPN01 (Bedrock)
Copper	μg/l	<1 - 16	10	2,00 0	1 (8)	SWSN02 (Carbonifero us Bedrock)	0 (8)	-
Nickel	μg/l	<1.5 - 10	4	20	2 (8)	STPN01, SWSN02 (Carbonifero us Bedrock)	0 (8)	STPN02 (Made Ground)
Lead	μg/l	<1 - 3	1.2	10	3 (8)	STPN01, SWSN02 (Carbonifero us Bedrock), SWSN01 (Made Ground)	0 (8)	-
Cyanide	mg/l	<0.05 - 0.61	0.00	0.05	1 (8)	STPN02 (Carbonifero us Bedrock)	1 (8)	STPN02 (Carbonifer ous Bedrock)
рН	pH units	9.8	6 - 9	6 - 9	1 (1)	CH55 (Made Ground)	1 (1)	CH55 (Made Ground)

Table 17: Controlled Waters Screening Exceedances – Soil Leachate

- **8.5.4** The identified exceedances are considered to be minor and unlikely to pose a significant risk to controlled waters.
- **8.5.5** The laboratory detection levels for cadmium and cyanide are higher than the applied screening criterion, within the historical data set.

Groundwater Results

- 8.5.6 The groundwater results assessment includes data from five monitoring rounds from BH544 and one monitoring round from CL32-09 undertaken in 2015. Groundwater samples were taken from the aquifer body within the Bedrock.
- 8.5.7 No exceedances of either the Environmental Quality Standards (EQS) or the Drinking Water Standards (DWS) were recorded.
- **8.5.8** All phenols, BTEX, TPH, PAH, VOCs and SVOCs results were reported as below the limits of detection.
- **8.5.9** However, it is noted that the laboratory detection limits for mercury, cyanide, phenols, some PAH compounds, VOCs and SVOCs were higher than their respective applied screening criteria.
- **8.5.10** The limited data currently indicates that the aquifer beneath the Site is not impacted by contamination associated with the historic land use.

8.6 Ground Gas Risk Assessment

- **8.6.1** The available ground gas data relates to on site boreholes that are associated with response zones screened within the bedrock. Of the rounds available the following comments may be made:
 - One round was undertaken at low barometric pressure (less than 1000 mb), with a pressure reading of 992 mb measured during the fourth monitoring round involving BH544. As such it can be considered that worse case atmospheric conditions have been monitored for this borehole.
 - Gas flow was recorded as absent during each monitoring round.
 - Methane has been recorded at levels of up to 0.1% in BH544 on the first round, was absent for the subsequent three rounds and up to 0.1% in CL32-09. The concentrations are below the initial screening criteria of 1%. The Lower Explosion Limit of up to 1% is noted for each borehole and correlates with the low level methane concentrations reported.
 - Carbon dioxide is identified at between 0.1% and 1.3% during all monitoring rounds. These concentrations are well below the Workplace Exposure Limit (WEL) of 5%.
 - Traces of Volatile Organic Compounds of up to 5.3 ppm have been recorded.
 - Hydrogen sulphide and carbon monoxide was not detected throughout the monitoring rounds.
 - Oxygen has been recorded at low to ambient concentrations of between 11.2-20.8%.
- 8.6.2 Though occasional low levels of oxygen have been identified, the available data does not indicate abnormal gas concentrations and is consistent with the expected gas regime given the ground conditions.
- 8.6.3 A gas risk assessment has been undertaken and is set out within the Land Contamination Assessment Report (Appendix 11.1 of the ES).
- 8.6.4 Potential soil gas from the Site is therefore considered to be of low risk to the Scheme though it should be noted that VOCs may be released during tank removal and/or excavation within hydrocarbon impacted ground.

8.7 Summary

- **8.7.1** Discrete areas of elevated PAH (that would cause a potential risk to human health) have been identified within the Made Ground, however a conservative screening criteria was applied due to the lack of compound speciation within the analytical data.
- 8.7.2 TPH and PAH are also shown to be elevated at location CH55 within the Made Ground, where no concrete slab is evident.
- 8.7.3 STPN01 which was excavated in 2008 reported evidence of hydrocarbons within the bedrock. The 2015 boreholes sunk around the historical trial pit did not identify elevated organic contamination, indicating a localised impact.
- **8.7.4** Moderate leachability of both the Made Ground and bedrock has been identified with marginal exceedances of copper, nickel, lead, cyanide and pH.

8.7.5 The bedrock aquifer has no identifiable contaminant concentrations when compared to the Environment Quality Standards or the Drinking Water Standards. This would indicate that the quality of the aquifer observed beneath the Site has not been impacted by on site soil contamination.

9 Refined Conceptual Site Model

- **9.1.1** The incorporation of data from the 2015 Supplementary Ground Investigation and additional ground investigation on behalf of the Welsh Government has enabled the original CSM presented in the 2014 PSSR to be updated. The assessment is based on the Scheme during construction and operational phases.
- 9.1.2 A CSM representing general ground conditions, overall Scheme layout and relevant source-pathway-receptors (each of which has a specific alpha-numerical symbol attached) are presented in Figure 2 and is described in Table 18.

Table 18: Site Conceptual Model

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
On Site	Construction		'			
Localised elevated hydrocarbons identified from possible fuel/ chemical spill. Made G round associated with the depot, chemical and fuel storage.	Construction Workers (B)	Direct dermal (1)	Likely	Moderate	Moderate	Construction workers will be exposed to Made Ground materials, fuel tanks and associated hydrocarbon contamination during Site construction works; however exposure duration will be short term only. Prior to construction, a specific risk assessment will be required in line with CDM and health and safety legislation. This will enable safe methods of work and an
		Ingestion (3)	Likely	Moderate	Moderate	appropriate level of PPE to be put in place. As such all risks will be duly considered and suitably mitigated to protect construction workers. The current data set identified a limited number of exceedances of the selected screening criteria. Overall, current contamination status from the current dataset is not foreseen to represent abnormal constraints to construction workers' health and safety over and above those typical of a brownfield site.
		Inhalation of soil dust and hydrocarbon vapours (2)	Likely	Moderate	Moderate	During the previous ground investigation (Exploration Associates in 2000), discrete areas have been identified to be contaminated with hydrocarbon. Hydrocarbon contamination was not identified during the recent 2015 ground investigations, indicating a localised distribution of the contamination. However, if found to be present specific precautions may be required and possibly specialist contractors to enable remediation.
	General public: footpath users	Dermal contact with soil dust (1)	Unlikely	Moderate	Low	During construction there is the possibility of inhalation of soil dust (short term exposure
	during construction works (C)	Ingestion of soil dust (3)	Unlikely	Moderate	Low	only). Dust suppression measures are recommended during construction works.

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
		Inhalation of soil dust (2)	Unlikely	Moderate	Low	VOCs may be released during tank removal and/or excavation within hydrocarbon impacted
		Inhalation of soil gas or hydrocarbon vapours (2)	Unlikely	Moderate	Low	ground.
	Groundwater - Aquifer within the Bedrock (Da)	Leaching/migration of contaminants from Made Ground, buried tank or fuel spill to aquifer (4)	Likely	Moderate	Moderate	Current dataset shows the aquifer not to be impacted by on site contamination. However leachability of contaminants is shown to be moderate. There is a risk of impacting soils and groundwater from fuel tanks and possible spillage. A method statement for the removal of the tanks will be required together with a remediation strategy to include a programme of groundwater monitoring.
	Operational					
	Maintenance Workers (B)	Direct dermal (1)	Unlikely	Low	Very low	Made Ground and some bedrock to be removed by the cutting therefore, exposure to Made Ground will be limited to outside the M4 corridor. Areas outside the motorway hardstanding are likely to receive topsoil cover and vegetation establishment, reducing potential of exposure. Exposure duration will be short term only. Site specific risk assessment will be required in line

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
		Ingestion (3)	Unlikely	Low	Very low	with health and safety guidance. This will enable safe methodology and an appropriate level of PPE to be put in place. As such, all risks will be duly considered and suitably mitigated. The current data set identifies a limited number of exceedances of the selected screening
		Ingestion of soil dust (2)	Unlikely	Low	Very low	criteria. Current contamination status is not foreseen to represent abnormal constraints to maintenance worker's health and safety over and above those typical of a brownfield site.
	Future Motorway Users (A)	Inhalation of hydrocarbon vapours (2)	Unlikely	Low	Very low	Motorway hardstanding will provide some level of barrier. Motorway users are within an open space. 2015 investigation identified hydrocarbon contamination to be localised, if still present.
	Groundwater - Aquifer within the bedrock (Da)	Leaching / migration of contaminants from hydrocarbon impacted soils to aquifer. (4)	Likely	Moderate	Moderate	Current dataset shows the aquifer not to be impacted by on site contamination. However leachability of contaminants is shown to be moderate. There is a risk of impacting soils and groundwater from fuel tanks and possible spillage. A method statement for the removal of the tanks will be required together with a remediation strategy to include a programme of groundwater monitoring.

10 Conclusions and Recommendations

10.1 Conclusions

- Investigations at the Site have established that contamination associated with the Site's historical use has been found to be limited to two locations (CH55 and STPN01). In CH55 elevated organic compounds have been identified within the shallow soil. This is in an area of the Site where the concrete slab is absent and impacted soils may be present to greater depth although testing has indicated much reduced concentrations were identified at 0.25 m depth. Visual evidence of oil/fuel contamination within the bedrock has also been identified (STPN01). This would suggest historical leakage or spillage may have occurred. However, hydrocarbon contamination was not identified within surrounding soils during the recent ground investigation, indicating an absence of widespread contamination.
- 10.1.2 The risk assessment has identified that some residual risks to human health and controlled waters could exist in discrete areas of the Site and control measures are required to facilitate the construction and ongoing operation of the Scheme.
- Buried fuel tanks exist that will need to be removed from Site during the works. Further investigation or inspection during construction is recommended to identify and confirm the location of all tanks. Prior to tank removal, a remedial method statement will be required which will require materials around the tank to be inspected for contamination and verification testing undertaken to determine if materials require remediation or are suitable for reuse within the Scheme.
- **10.1.4** The potential for reuse of contaminated materials will need to be verified through compliance with suitability for reuse criteria set out in the remediation strategy.
- **10.1.5** Should contaminated materials be designated for disposal, further waste characterisation and acceptance assessments may be required.
- During the construction phase, specific mitigation measures will be required to prevent inhalation pathways of dust to the general public off site and construction workers, although such measures would be no more than typically expected on a construction site. A suitable water management strategy will also be required to prevent potential impact to surface waters from contaminant run-off.
- **10.1.7** The deep aquifer is currently not identified to be impacted by the Site usage and by on site soil contamination.

10.2 Recommendations

- 10.2.1 It is recommended that as a remediation strategy is required for the Scheme, the following measures should be included within it with respect to this Site;
 - Dealing with unexpected contamination.
 - · Verification sampling to confirm suitability of soils for reuse.
 - Control measures (over and above good practice construction management) to prevent risks to construction workers and the general public during construction.

- Works relating to tank decommissioning / removal and management of hydrocarbon impacted materials.
- Verification of material used as topsoil for suitability of use.
- The remediation strategy should include a remediation options appraisal, remediation implementation plan and remediation verification plan. The remediation strategy should be supported by a Scheme wide Material Management Plan prepared in accordance with CL:AIRE Code of Practice (CL:AIRE, 2011).

11 References

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Ove Arup & Partners (2014) M4 Corridor Around Newport, Preliminary Sources Study Report, 14/9197

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12 Glossary

BF Blast Furnace

BGS British Geological Survey

BOD Biochemical Oxygen Demand

BOS Basic Oxygen Slag

BTEX Benzene, Toluene, Ethylbenzene and Xylene

CAT Cable Avoidance Tool

CDM Construction Design Management

CH₄ Methane

CLEA Contaminated Land Exposure Assessment

CO₂ Carbon Dioxide

CO Carbon Monoxide

COD Chemical Oxygen Demand

CSM Conceptual Site Model

DMRB Design Manual for Roads and Bridges

DO Dissolved Oxygen

DQRA Detailed Quantitative Risk Assessment

DWS Drinking Water Standard

EC Electrical Conductivity

EIA Environmental Impact Assessment

ES Environmental Statement

ESG Environmental Scientifics Group

EQS Environmental Quality Standard

FTIR Fourier Transform Infrared (spectroscopy)

GAC Generic Assessment Criteria

GDR Geotechnical Design Report

GIR Ground Investigation Report

GRO Gasoline Range Organics

LEL Lower Explosive Limit

LOD Limit of Detection

mAOD Metres Above Ordnance Datum

mb Millibars

mbGL Metres below Ground Level

MTBE Methyl Tert-butyl Ether

NRW Natural Resources Wales

ORP Oxidation Reduction Potential

O₂ Oxygen

OS Ordnance Survey

PAH Polycyclic Aromatic Hydrocarbon

PCB Polychlorinated Biphenyl

PCSM Preliminary Conceptual Site Model

PID Photo Ionisation Detector

PPE Personnel Protection Equipment

SGVs Soil Guideline Values

SSAC Site Specific Assessment Criteria

SSSI Site of Special Scientific Interest

SVOCs Semi-Volatile Organic Compounds

TOC Total Organic Carbon

TPH Total Petroleum Hydrocarbon

TPH CWG Total Petroleum Hydrocarbon Criteria Working Group

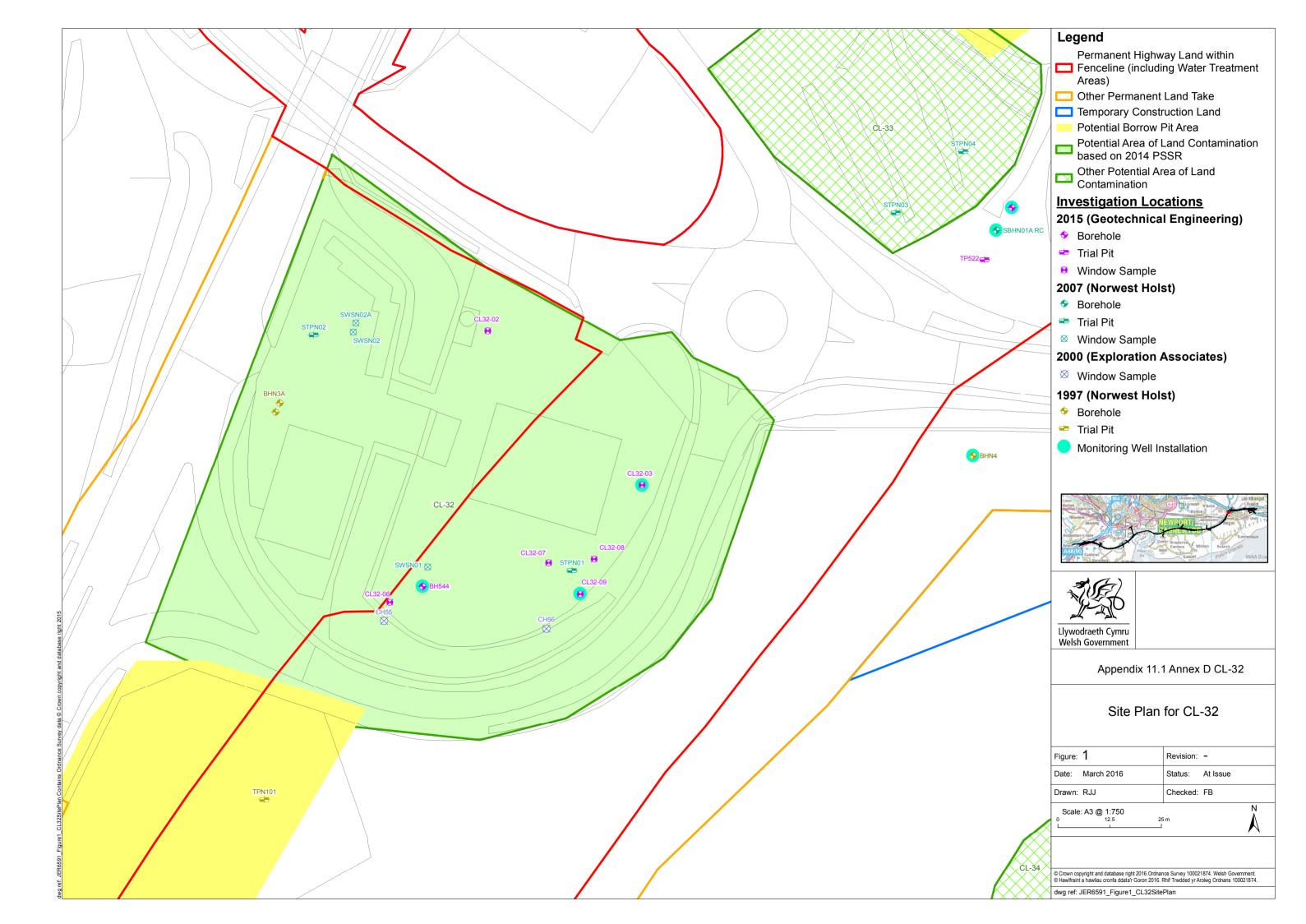
UKAS United Kingdom Accreditation Service

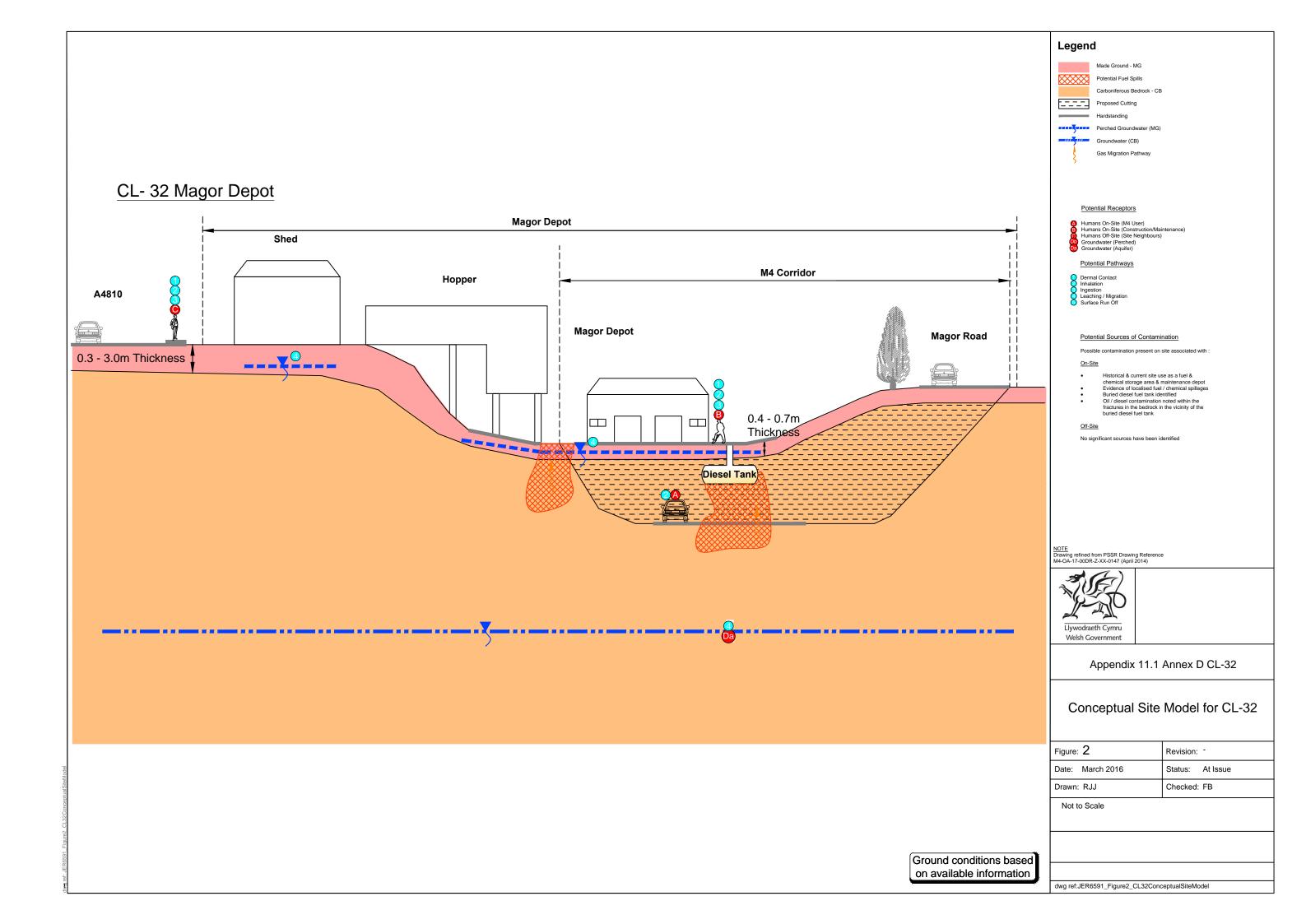
VOCs Volatile Organic Compounds

WFD Water Framework Directive

UXO Unexploded Ordnance Survey

Figures





Appendices

Appendix 1

Exploratory Records



Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Borehole No.

BHN3

Header

Contract No.

Project

Client

Consultant

F10895

M4 Relief Road Magor to

Castleton Stage 2

Welsh Office

Ove Arup and Partners

Method

Core bit

Rotary Coring

Drilling Rig Knebel 77

Driller Logged by E.D T.R/C.D

Saw Tooth

Core barrel

Ground Level

Coordinates

341825.7 E

187581.5 N

26.60m AOD

Orientation Date Started Vertical

Date Completed

04/11/1997 04/11/1997

		F	PROGRESS		DRI	LLING DET	AILS			
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To depth	Flush type	Flush return	Core diameter
06/11/1997	1800	9.50	5.15	Dry		0.00	5.00	water & mist	100%	NR.
07/11/1997	0800	9.50	5.15	Dry		5.00	6.50	water & mist	100%	92
07/11/1997	1800	12.30	5.15	Dry		6.50	8.00	water & mist	0%	92
				İ		8.00	12.30	water & mist	100%	92
						·				
		i								
		į								

	CASI	NG					WATER	STRIKES			
Hole diameter	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
120	12.30	140	5.15						*****		
	1										

GENERAL NOTES	SPT DETAILS
1. 100mm diameter plastic pipe grouted to 11.70m on completion.	Depth Type Incremental blow count/penetration in mm
completion.	1.00 S N=11 (2,1,2,2,3,4) 2.00 S N=19 (2,2,4,4,5,6) 3.00 S N=8 (2,1,2,2,2,2) 4.00 S N=40 (4,5,7,7,11,15)

NB All depths in metres, all diameters in millimetres, water strike rise time in minutes.

Form	ROTARY HEADER
Version	2.00
Revised	25/06/1997



Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Borehole No.

BHN3

Sheet 1 of 2

Contract No.

Project

Client

F10895

M4 Relief Road Magor to

Castleton Stage 2

Welsh Office

Method Drilling Rig

Driller

Rotary Coring

Knebel 77

E.D

T.R/C.D

Coordinates

341825.7 E

187581.5 N Ground Level 26.60m AOD

Orientation
Date Started

Vertical

Consultant

Ove Arup and Partners

Core barrel Core bit

Logged by

P

Saw Tooth

Date Completed

04/11/1997 04/11/1997

			Depth				1		$\overline{}$		
	Description of Strata	Legend	Below	O.D.	Coring and	E E	SS	RG D	E	SPTN	Install
			G.L.	Level	Sampling		<u> </u>	"		& depth	ation
	MADE GROUND: Concrete slab (drillers description).		0.20	26.40							
\			0.40	26.20	İ						_=====
/	MADE GROUND: Hard core fill (drillers description).	/ XXXX		-						-	
	MADE GROUND: Clayey marl fill (drillers descriptions).			-							7
	MADE GROOMD. Clayey man int (utiliers descriptions).			-			1			S11 1.00_	
				-						1.45	
				E l							
				_						,	
				_							
										S19 2.00 2.45	
				-						2.70	
				-							
			2.70	23.90							
	TOPSOIL (drillers description).		3.00	23.60						S8 3.00	
-	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		3.00	- ****						88 3.00_ 3.45	
	Reddish brown CLAY (drillers description). (Marginal Facies of Mercia Mudstone Group)			-		-					====
_	(Marginal Factes of Mercia Mudsione Group)	_====	3.55	23.05							
	Soft reddish brown weathered marl MUDSTONE (drillers			-							
	description).			-		-				\$40 4.00	
	(Marginal Facies of Mercia Mudstone Group)		4.15	22.45						4,45	
\				Ε :							
	Greyish brown green marl (drillers description). (Marginal Facies of Mercia Mudstone Group)										
	(Marginal Factes of Mercia Mudsione Group)			E	.						7
			5.00	21.60							
	Reddish brown mottled greyish green medium to thinly									_	
	sub-horizontally bedded moderately to highly weathered			_					4]555
	slightly sandy MUDSTONE, moderately weak to moderately strong with closely to medium spaced sub-horizontal			- '					NI		
	discontinuities planar rough tight.			-	5.00 6.50	100	72	28	141		
	(Marginal Facies of Mercia Mudstone Group)			-					5	_	
	from 5.38m greyish brown completely to		6.30	20.30							
\	highly weathered moderately weak to weak	/ ::::::::	0.50	20.50					2		
		/		-			-	<u> </u>			
\	from 5.56 to 5.79m completely fractured	/ <u> </u>					•				-
				-	6.50 7.50	43	34	12	6	-	
	Reddish brown mottled green fine grained medium to thinly sub-horizontally bedded moderately to slightly weathered			F							1
	very silty SANDSTONE, moderately strong to moderately weak			-			1				
	with closely to medium spaced sub-horizontal discontinuities	:::::::		E	7.50 8.00	96	92	74	3		7-2-2
	planar rough tight.			E	7.50 8.00	100	12	/-	,	·	7
\	(Marginal Facies of Mercia Mudstone Group)	777777	8.00	18.60	-		-			-	
`	Reddish brown mottled yellowish green medium to thinly			_							====
	sub-horizontally bedded thinly laminated slightly to			L							_====
l	moderately weathered sandy DOLOMITE, moderately strong to		8.65	17.95	8.00 9.50	100	97	79	8		
\	strong with closely to medium spaced sub-horizontal discontinuities planar rough tight.	/		<u> </u>							=====
	(Marginal Facies of Mercia Mudstone Group)	/ :::::::		F						-	
\		/		ļ:							
١ ١	from 8.20 to 8.35m fine to medium gravel			Ł			<u></u>				<u> </u>
			!	Г		$\overline{}$			1	1	
	sized vugs			-					3		

NB All depths in metres, all diameters in millimetres.

See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

 Form
 NH ROTARY LOG

 Version
 1.00

 Revised
 16/09/96



Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Borehole No.
BHN3

Sheet 2 of 2

Contract No.

Project

Client

F10895

T10893

M4 Relief Road Magor to Castleton Stage 2

Welsh Office

Method Drilling Rig

Driller

Rotary Coring

Knebel 77

E.D

T.R/C.D

Coordinates

341825.7 E

Ground Level 26

187581.5 N 26.60m AOD

Orientation

Vertical 04/11/1997

Consultant

Ove Arup and Partners

See header sheet for details of drilling, progress and water

strikes. See legend sheet for key to symbols.

Core barrel Core bit

Logged by

P

Saw Tooth

Date Started
Date Completed

04/11/1997

Form

Revised

NH ROTARY LOG

16/09/96

Description of Strata	Le	egend	Depth Below G.L.	O.D. Level	oring and Sampling	TCR	SCR	RQD	Ħ	SPT N & depth	Inst
Reddish brown fine to medium grained thinly to medium sub-horizontally bedded slightly weathered silty SANDSTONE, strong with very closely spaced thin laminations to very			10.29	16.31	 9.50 11.00	100	97	71	2	es depair	
thin beds of yellowish brown sandy dolomite and closely to medium spaced sub-horizontal discontinuities planar rough tight. (Marginal Facies of Mercia Mudstone Group)			11.00	15.60					5		
(9.89-10.29) Yellowish brown medium sub-horizontally bedded fresh to slightly weathered slightly silty very sandy DOLOMITE, strong to very strong with occasional fine gravel	- /		11.53	15.07	11.0012,30	100	95	46	4		
sized vugs and undulating thin to thick laminations of calcite. (Marginal Facies of Mercia Mudstone Group)			12.30	14.30					4		
Yellowish to reddish brown thinly sub-horizontally bedded slightly weathered silty very sandy DOLOMITE, strong closely spaced thick laminations to thin beds of reddish brown mottled green moderately weathered sandy mudstone moderately weak very closely to closely spaced discontinuities planar rough tight. (Marginal Facies of Mercia Mudstone Group)									·		
from 10.40 to 10.63m very closely spaced undulating thin laminations of calcite			-	- - - -							
Reddish brown fine to medium grained thinly to medium sub-horizontally bedded slightly weathered silty dolomitic SANDSTONE, strong with occasional fine gravel size vugs and closely spaced thick laminations to very thin beds of reddish brown mottled greyish green moderately to highly weathered sandy mudstone with very closely to medium spaced sub-horizontal discontinuities planar rough tight. (Marginal Facies of Mercia Mudstone Group)											
from 11.30 to 11.45m sub-vertical undulating thin laminations of calcite				- - - -							-
Reddish brown occasionally mottled greyish green thinly to medium sub-horizontally bedded moderately weathered sandy MUDSTONE, moderately weak to moderately strong with closely spaced sub-horizontal discontinuities planar rough to smooth tight. (Marginal Facies of Mercia Mudstone Group) from 12.00 to 12.30m slightly to moderately											
weathered slightly sandy, very strong				- - -							
Rotary drilling complete at 12.30 m.				- - - - -							1
											1 1 1
		- 1	-								4



Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - CABLE PERCUSSION**

Borehole No. **BHN3A**

Header

Contract No.

Project

Client

M4 Relief Road Magor to Castleton Stage 2

Welsh Office

NB All depths in metres, all diameters in millimetres,

water strike rise time in minutes, chiselling time in hours.

Cable Percussion

Coordinates

341826.7 E

Drilling Rig

Method

Driller

Logged by

Pilcon I.M

Ground Level

187583.7 N 26.60m AOD

Orientation Date Started

Vertical 20/11/1997

Consultant

Ove Arup and Partners

C.D

20/11/1997

Form

Version

Revised

CP HEADER

25/06/1997

2.00

Date Completed

		I	PROGRESS				DRILLING DETAILS					
Date	Time	Hole depth	Casing depth	Water depth	Remarks	Hardbore from depth	Hardbore to depth	Chiselling hours	Remarks			
20/11/1997	1030	4.90	3.20	Dry		4.50	4.75	1.00				

	CAS	NG					WATER	STRIKES			
Hole diameter	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Tîme	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
150	4.90	150	3.20								
]			
				į							

GENERAL NOTES			SPT DETAILS
	Depth	Туре	Incremental blow count/penetration in mm
	2.00 4.75	S S	N=11 (1,4,2,3,3,3) 50/75mm (25,50)
· •			
			·
			* Seating blows only.



Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - CABLE PERCUSSION**

Borehole No.

BHN3A

Sheet 1 of 1

Contract No. Project

Client

Consultant

F10895

M4 Relief Road Magor to

Castleton Stage 2

Welsh Office

Ove Arup and Partners

Method

Cable Percussion

Drilling Rig Pilcon Driller

Logged by

I.M C.D Coordinates

341826.7 E

187583.7 N

Ground Level Orientation

26.60m AOD

Date Started

Vertical

20/11/1997

Date Completed 20/11/1997

Description of Strata	Legend	Depth Below G.L.	O.D. Level		Sampling	SPT N & (U blows)	SPT type & depth	Install ation
CONCRETE			26.30	D	0.35	-		
MADE GROUND: Orangish brown silty clay with occasional sub-rounded siliceous gravel and gravel size pockets of sub-angular brick and rubble fragments to 2.00m.			- - -		0.35 0.40 - 1.00	- - -	-	
			- - - -		1.00 - 1.45	(17)	_	
			-	D	1.70	- - - -	-	
			- - - -		2.00	S11	S 2.00 2.45	
			- - - -	В	2.45 - 3.00	• - • •	- -	
Reddish brown mottled greyish green thinly laminated		3.20	23.40		3.00 - 3.45	(41) - -		
moderately to highly weathered MUDSTONE, very weak to weak with occasional thin laminations of yellowish brown fine to medium sand.			- - -	D	3.45	• • • .	-	
(Marginal Facies of Mercia Mudstone Group)from 4.00m purplish brown mottled			-	D	4.00	· =		
greyish greenfrom 4.50m weak to moderately weak		4.90	- - - - 21.70	D	4.75	S50/75mm	S 4.75	
Cable Percussion boring complete at 4.90 m.			-			- - -		-
			-			- - -	-	
			-			- -	-	
			- - -		- -	• •	-	
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			- - -		 - -	- - -	-	

NB All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form	NH CP LOG	
Version	2.00	
Revised	19/12/1996	

Sampling					Strata			
Depth	Туре	Casing	Date/ Water	SPT N (Cu)	Description	Depth	Level	Legen
0.00-0.25	T	pehili	05/02	(Cu)		(Thickness)	21.45	Legen
0.25-0.75	TO		0000 DRY		MADE GROUND: Loose brown very silty sandy sub- angular to sub-rounded fine to coarse gravel of slag, ash and sandstone with much root	0.25	21.20	
					of slag ash and sandstone with much root material	E		
0.75-1.00	В				Pupple and span	E		
1.00-1.70	TO				Purple and green grey very silty highly weathered MUDSTONE	(1.45)		
						E		
						-		
1.70-1.75	T	NIL	DRY			1.70	19.75 19.70	
1.75			+		Red brown silty weathered MUNSTONE	1.75	19.70	
					Red brown silty weathered MUDSTONE End of Borehole.	<u> </u>		
						-		
						-		
•						F		
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quipment: Hand	d Held	Window	Sample	-	Groundwater	Ground Le	ol 24	1 45 = 20
			,		No. Struck Behaviour Sealed	Ground Lev Coordinate	s 34	.45 m OD 1851.79 37531.14
Borehole Dia (mr	n)	Casing	Dia (mm)	No groundwater encountered		10	14 - 1 כנינ
80 to 1.00m 60 to 1.75m						Drilled by Logged by Checked by	DC DC	
						Checked by	AF	
Remarks	Refus	al at 1	1.75m					
See key sheet								
See key sheet and appendices or explanations.								-
				Т	Project	Contract		Form
Borehole F	Hecoi	rd				Contract	150	1006
E Explo	ratio	n Ass	noist	20	M4 Relief Road - Stage 2. Preliminary Chemical Investigation Ove Arup & Partners	Borehole		
(LAPIU	iauUl	1 MOS	ouidl	ರಾ		1	CH	H55(1 of 1)

Sampling					Strata				
Depth	Туре	Casing Depth	Date/ Water	SPT N (Cu)	Description	Depth (Thickness)	Level	Lege	end
_ 0.00-0.40	TO		05/02 0000 DRY		Soft to firm brown very silty slightly sandy CLAY with occasional to some root material	G.L. (0.40)	20.64	×.\\/ ×	
0.40-0.60	Т	NIL	DRY			E 0.40	20.24	\ /. × ·	
0.60		1716	DK I		Red and yellow brown weathered MUDSTONE End of Borehole.	0.60	20.04		
-									
-									
						-			
Administration to the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of									
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						-			
Equipment: Han	nd Held	Window	Sample	r	Groundwater	Ground La	vel 3	0.64 = 0	<u> </u>
Borehole Dia (m			Dia (mn		No. Struck Behaviour Sealed No groundwater encountered		1	0.64 m OU 41890.96 87529.33	ר ה ר
80 to 0.60m						Drilled by Logged by Checked by	DC DC AF		
See key sheet and appendices for explanations		al at (U.60m						
Borehole		rd			Project M4 Relief Boad - Stage 2 Baslinian	Contract	15	0006	orm 1
(E) Explo	oratio	n Ass	ociat	es	M4 Relief Road - Stage 2. Preliminary Chemical Investigation Ove Arup & Partners	Borehole	, C	H56(1 of	F 1\



Norwest Holst Soil Engineering Ltd. TRIAL PIT LOG

Hole ID. STPN01 Sheet 1 of 1

Contract No.

F15056

Method

Machine Excavated

Coordinates

Project

New M4 - Second Preliminary Ground Investigation

Equipment

JCB 3CX

Ground Level

341897.20 E 187543.24 N 20.00m AOD

Client

Transport Wales, Welsh Assembly

Government

Logged by

WA

Date Started Date Completed 03/12/2007 03/12/2007

Consultant

Ove Arup & Partners Ltd

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
MADE GROUND: Reinforced concrete. MADE GROUND: Reddish brown sandy angular to subangular fine to coarse gravel sized fragments of limestone. Stiff friable green and red CLAY. (Head Deposits?) Moderately weak to moderately strong greenish brown LIMESTONE. Moderately weathered. (Oil/diesel coming through fractures in rock). (Mercia Mudstone Group (Marginal Facies)) Trial pit complete at 0.65 m.		0.20 0.40 0.60 0.65	- - 19.80 - 19.60 - 19.40	ES1 0.30 D2 0.30 B3 0.30 ES4 0.40 D5 0.40 B6 0.40 ES7 0.60 D8 0.60	

Stability

All faces stable

Shoring

None used

Groundwater

None encountered during excavation

Remarks

1.Diesel tank buried in vicinity of trial pit. 2.Trial pit terminated at 0.65m due to hard strata.

Sketch Plan of Trial Pit Α 2.60m **D** 0.60m В С Bearing

NOTES: All depths in metres, all soil strengths in kPa. See legend sheet for key to symbols and abbreviations. All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.06
Revised	17/12/2007



Norwest Holst Soil Engineering Ltd. TRIAL PIT LOG

Hole ID. STPN02 Sheet 1 of 1

Contract No.

F15056

Investigation

Method

Logged by

Machine Excavated

Coordinates

Project

New M4 - Second Preliminary Ground

Equipment JCB 3CX **Ground Level**

341834.86 E 187600.05 N 26.89m AOD

Client

Transport Wales, Welsh Assembly

Government

Date Started

04/12/2007

Consultant

Ove Arup & Partners Ltd

WA	Date Completed	04/12/2007

MADE GROUND: Reinforced concrete. MADE GROUND: Reddish brown angular to subangular fine to coarse gravel sized fragments of limestone. Stiff dark reddish brown slightly sandy gravelly CLAY.		0.20 0.40	26.69 26.49	D1 B2	0.30	
to coarse gravel sized fragments of limestone. Stiff dark reddish brown slightly sandy gravelly CLAY.			_	B2	0.30	
Stiff dark reddish brown slightly sandy gravelly CLAY.				ES3	0.30 0.30	
Gravel is subangular to rounded fine to coarse of sandstone, siltstone, limestone, quartz and mudstone. (Head Deposits?)at 0.60m 1 No limestone boulder	EEE		- - - -	D4 B5 ES6 B7	0.50 0.50 0.50 0.60	-
at 0.00m i No ilmestone boulder			- - - -	D8	1.50	
from 2.00m to 2.40m becoming light brown soft and friable			- ·	B9	2.00	-
		4.20	- 22.69	D10 D11 B12	2.50 3.50 3.50	
Trial pit complete at 4.20 m.		4.20	- 22.69			

Stability

All faces stable

Shoring

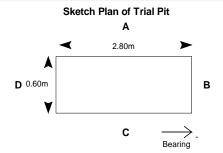
None used

Groundwater

None encountered during excavation

Remarks

1. Trial pit complete at 4.20m.



NOTES: All depths in metres, all soil strengths in kPa. See legend sheet for key to symbols and abbreviations. All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.06
Revised	17/12/2007



Norwest Holst Soil Engineering Ltd.

HAND VANE AND HAND PENETROMETER TESTS

Hole ID. STPN02 **Data Sheet**

Contract No. F15056

Project

Consultant

New M4 - Second Preliminary Ground

Method

Machine Excavated

Coordinates

341834.86E

Investigation

Ove Arup & Partners Ltd

Equipment JCB 3CX

Ground Level

187600.05 N 26.89m AOD

Transport Wales, Welsh Assembly Client Government

Logged by WA

Orientation Date Started Vertical 04/12/2007

Date Completed

04/12/2007

	Hand Vane		Hand Penetrometer				
Depth	Test No	Peak	Remoulded	Depth	Test No	Result	
1.00	01	130.0	130.0				
1.00	02	130.0	130.0				
1.00	03	130.0	130.0				
1.00	03	130.0	130.0				
2.00	04	100.0	40.0				
2.00	05	70.0	20.0				
2.00	06	90.0	50.0				
3.00	07	130.0	130.0				
3.00	08	130.0	130.0				
3.00	09	130.0	130.0				
4.00	10	130.0	130.0				
4.00	11	130.0	130.0				
4.00	12	130.0	130.0				
			1				
			1		i .		
			1				

NOTES: All depths in metres, all diameters in millimetres, test results in kPa.

Form	ARIAL HAND VANE/PEN
Version	3.03
Revised	18/01/2007



Norwest Holst Soil Engineering Ltd. WINDOW SAMPLING LOG

Hole ID. SWSN01

Sheet 1 of 1

Contract No.

F15056

Method

Window Sampling

Coordinates

341862.37 E

Project

Client

New M4 - Second Preliminary Ground Investigation

Sampling Rig

Hydraulic Hammer

187544.21 N Ground Level 19.92m AOD

Tr

Transport Wales, Welsh Assembly Driller Government Logged by

RK DH Orientation

19.92m AOD Vertical

Consultant

Ove Arup & Partners Ltd

Date Started
Date Completed

03/12/2007 03/12/2007

MADE GROUND: Concrete (rebar at 0.18m). (Driller's description) MADE GROUND: Sand and gravel. (Driller's description) Weathered SANDSTONE (Driller's description). (Mercia Mudstone Group (Marginal Facies)) Sampling complete at 0.60 m.	19.42	ES1 ES2	0.30	
Weathered SANDSTONE (Driller's description). (Mercia \ Mudstone Group (Marginal Facies))	0 - 19.42 0 - 19.32 - 19.32	ES2		
Weathered SANDSTONE (Driller's description). (Mercia Mudstone Group (Marginal Facies))	J 19.32			
Sampling complete at 0.60 m.				
				1
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			GENERAL NOTES					
Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow	Inspection pit excavated from GL to 0.60m.
03/12/2007		0.40	0.40	20	Seepage	NR	NR	Window Sampling terminated at 0.60m due to refusal.

NOTES: All depths in metres, all diameters in millimetres, Water strike rise time in minutes. See legend sheet for key to symbols.

Form	ARIAL WINDOW LOG
Version	3.07
Revised	13/02/2008



Norwest Holst Soil Engineering Ltd. WINDOW SAMPLING LOG

Hole ID. SWSN02

Sheet 1 of 1

Contract No.

F15056

Method

Window Sampling

Coordinates

341844.38 E

Project

New M4 - Second Preliminary Ground Investigation

Sampling Rig

Hydraulic Hammer

Ground Level 2

187600.77 N 26.91m AOD

Client

Transport Wales, Welsh Assembly Driller Government

Driller RK Logged by DH Orientation
Date Started

Vertical 03/12/2007

Consultant

Ove Arup & Partners Ltd

Date Started

Date Completed

Completed 03/12/2007

Description of Strata	Legend	Depth Below G.L.	Datum Level		Sample type and depth	Progress	Install- ation
MADE GROUND: Concrete (rebar at 0.18m). (Driller's description)		0.20	- - 26.71				
MADE GROUND: Sandy clay bands of sandstone. (Driller's description)		0.70	- - - 26.21				
Stiff reddish brown locally yellow slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to well rounded fine to coarse of limestone, sandstone and mudstone. (Mercia Mudstone Group (Marginal Facies))				L1	1.20 - 1.80	From: 1.20 To: 1.80 Diameter: 100mm Recovery : 100% Blows: 12	
Sampling complete at 1.80 m.		1.80	- 25.11 - -				
			-				
			- - - -				
			- -				

			GENERAL NOTES			
Date	Time	Strike at depth	1.Window Sampling from GL to 1.80m. 2.Window Sampling terminated at 1.80m			
						due to refusal.

NOTES: All depths in metres, all diameters in millimetres, Water strike rise time in minutes. See legend sheet for key to symbols.

Form	ARIAL WINDOW LOG
Version	3.07
Revised	13/02/2008



Norwest Holst Soil Engineering Ltd. WINDOW SAMPLING LOG

Hole ID. SWSN02A

Sheet 1 of 1

Contract No.

F15056

Method

Window Sampling

Coordinates

341845.05 E

Project

New M4 - Second Preliminary Ground Investigation

Sampling Rig

Hydraulic Hammer

Ground Level

187602.93 N

Client

Transport Wales, Welsh Assembly Driller Government

Driller RK Logged by DH Orientation
Date Started

26.94m AOD Vertical 03/12/2007

Consultant

Ove Arup & Partners Ltd

Date Completed 03/12/2007

Description of Strata	Legend	Depth Below G.L.	Datum Level		Sample type and depth	Progress	Install- ation
MADE GROUND: Concrete (rebar at 0.18m). (Driller's description)		0.20	- - 26.74				
MADE GROUND: Sandy clay with lumps of sandstone. (Driller's description)		0.70	- - - - 26.24				
Stiff orangish brown silty slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is angular to well rounded of limestone, sandstone, quartz and mudstone. (Mercia Mudstone Group (Marginal Facies))from 1.40m to 1.70m yellow mottled light green				L1	1.20 - 1.90	From: 1.20 To: 1.90 Diameter: 100mm Recovery : 100% Blows: 14	
from 1.90m to 2.10m becomes sandy			- - -	L2	1.90 - 2.30	From: 1.90 To: 2.30 Diameter: 90mm Recovery: 100%	
Sampling complete at 2.30 m.		2.30	24.64			Blows: 13	

			GENERAL NOTES			
Date	Time	Strike at depth	Window Sampling from GL to 2.30m. Window Sampling terminated at 2.30m			
						due to refusal.

NOTES: All depths in metres, all diameters in millimetres, Water strike rise time in minutes. See legend sheet for key to symbols.

Form	ARIAL WINDOW LOG
Version	3.07
Revised	13/02/2008

Geotechnical Engineering Limited

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

5 March 2015

1 of 3

1:50

SITE M4 CORRIDOR AROUND NEWPORT Sheet

Scale

Start Date 4 March 2015

End Date

341861.1 Easting

187539.5 Ground level

Northing

19.95mOD

Depth 18.40 m

progress date/time	sample no &	depth (m)	casing depth	test type &	samp. /core	If	instru -ment	description	depth (m)	reduced level	lege
water depth	type	from to	(m)	value	range					(m)	
04/03/15 1145hrs	С	0.00 - 0.20	-		100		/ /	MADE GROUND comprising TARMACADAM. (MG)	0.20	19.75	\bigotimes
11451115	1B 2D*	0.20 - 0.40 0.20 - 0.40	-					Dark grey subangular medium to coarse limestone			\bowtie
	3B	0.20 - 0.40	-					GRAVEL. (MG)	0.50	19.45	\otimes
	4D*	0.50 - 0.60	_					Light greyish brown slightly gravelly sandy CLAY. Gravel	0.00	19.55	
	5X	0.60 - 1.20	Nil					is subangular medium and coarse limestone. (MG)	-	1	
	6D	1.20 - 1.65	- Nii	S 27): ⊟ ::	Stiff fissured greenish grey mottled reddish brown gravelly			_
	7X	1.20 - 1.03	_ '\''	3 21				CLAY. Gravel is subangular and subrounded fine and	-		
			_					medium lithorelicts of very stiff clay to extremely weak	-		
			L					mudstone. Localised relict fissures are randomly orientated extremely closely spaced planar smooth.	-		
		1.90 - 2.00	1.90	S*300			- - - - -	onemated extremely closery spaced planar smooth.	-	+	
	8C	1.90 - 3.40	_		100 70 50				_	7	
			-		50	G.E.	. ⊟ :		2.20	17.75	_
						65 170 290		Weak and medium strong thinly laminated to very thinly	-		
			-			290		bedded reddish brown MUDSTONE with frequent quartz veins. Fractures are subhorizontal to 20° and 65° to	-	1	
			L					subvertical closely and medium spaced planar smooth.	-	-	
			-				[⊟ :	castorical diccory and modium opacca planar emocin.	-		
			-							7	
			-						-		
	9C	3.40 - 4.90	1.90		77		ŀ. ⊟ ∵		-		
					61 61				-		
								2.00 4.00m. Becaused non-intent	-	-	
			_					3.80 - 4.00m: Recovered non intact. 3.95 - 4.30m: Very stiff thickly laminated grey mottled	_	+	
			F					reddish brown silty clay.	4.30	15.65	
			F			290 355 530		Medium strong and strong reddish brown grey fine and] -	1	• •
			-			530		medium SANDSTONE. Fractures are subhorizontal to 15°	-	1	• •
		4.90 - 4.99	-	C*300				medium spaced undulating rough infilled (up to 2mm) with	-	1	• •
	10C	4.90 - 4.99	1.90	C 300	100		ŀ. ⊟∵	clay.	_	1	• •
					100 97 97				-	1	
			_				· ·		-		• •
			-						-	1	• •
			F						-	1	
			-						-	1	• •
							-		_		
											• •
	11C	6.40 - 7.90	1.90		67	NI	ŀ. ⊟ . •	6.40 7.00m; Limited recovery. Frequent thick learnings of	-	1	• •
	'''	U.TU - 1.30	1.90		67 35 16	NI 65 125		6.40 - 7.90m: Limited recovery. Frequent thick laminae of reddish brown clay. Fractures are closely spaced, locally	-	1	
			F				- 	non intact.	-	-	• •
			-				目:		_	7	• •
			F				. ∃ .		-	1	• •
			ļ.) 目:		-	1	• •
04/03/15			L				$\ \cdot\ $	7.50. 7.00m; Decovered non-intent	-	1	
1630hrs 4.40m			L				ŀ. ⊟ .:	7.50 - 7.90m: Recovered non intact.	7.00	40.0-	• •
+. + UIII	1	7.90 - 8.00	1.90	C*333			: 目:		7.90	12.05	-
								Continued Next Page	{8.00}		$oxed{oxed}$

METHOD: Waterflush rotary core drilled (300mm) 0.00-0.20m. Hand dug inspection pit 0.20-0.60m. Dynamic sampled (113mm) 0.60-1.90. Waterflush rotary core drilled (116mm) 1.90-18.40m.

CASING: 140mm diam to 1.90m.

BACKFILL: On completion, a slotted standpipe (50mm) was installed to 18.40m, granular response zone 18.40-1.00m, bentonite seal 1.00-0.20m, concrete and stopcock cover 0.20-0.00m.

flush.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered prior to use of water



CONTRACT

CHECKED

Geotechnical Engineering Ltd, Tel. 01452 527743

30238

Geotechnical Engineering Limited

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

SITE M4 CORRIDOR AROUND NEWPORT Sheet 2 of 3

Start Date 4 March 2015

341861.1 Easting

Scale 1:50

End Date 5 March 2015 Northing 187539.5 Ground level 19.95mOD Depth 18.40 m

progress date/time water depth	no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	lf	instru -ment	description	depth (m)	reduced level (m)	legend
05/03/15 0830hrs 1.70m	12C	7.90 - 9.40	-		100 75 45	NI 70 85 NI 110 320		Very weak thinly laminated to very thinly bedded reddish brown MUDSTONE. Fractures are subhorizontal to 20° closely spaced locally non intact planar smooth infilled (up to 2mm) with clay.	8.40	11.55	• • •
	13C	9.40 - 10.90	1.90		100 70 58	320		Weak and medium strong reddish brown and grey fine SANDSTONE. Fractures are subhorizontal to 10° closely and medium spaced locally non intact undulating rough and planar smooth infilled (up to 2mm) with clay.	10.50	9,45	
	14C	10.90 - 12.40	- - - - - - 1.90		100 85 57	NI 80 170		Weak grey mottled reddish brown SILTSTONE with closely spaced thick laminae of very stiff clay and extremely weak mudstone. Fractures are 10-20° closely spaced planar smooth.	10.30	8.70	× × : : : : : : : : : : : : : : : : : :
			- - - - - - -			NI 100 130		Very weak thinly laminated grey mottled reddish brown SILTSTONE with frequent very thin beds of extremely weak grey mudstone. Fractures are 10-15° closely spaced locally non intact planar smooth infilled (up to 5mm) with grey clay.	12.35	7.60	× × × × × × × × × × × × × × × × × × ×
	15C	12.40 - 13.90	1.90		95 78 63	NI 70 130		Weak and medium strong grey mottled reddish brown and orangish brown SILTSTONE locally tending to fine and medium sandstone. Fractures are 10-15° and subvertical locally non intact planar smooth locally stained orangish brown. 12.65 - 12.90m: Weak dark grey mudstone. 60-70° fracture stained dark orangish brown.	13.40	6.55	× × × × × × × × × × × × × × × × × × ×
	16C	13.90 - 15.40	1.90		100 90 70	30 160 250		Weak and medium strong grey mottled reddish brown and light greenish grey fine and medium SANDSTONE with rare thick laminae of grey clay. Fractures are subhorizontal to 20° closely and medium rarely very closely spaced planar rough. 14.30 - 14.60m: Stiff thinly laminated purplish grey clay.	14.90	5.05	
	17C	15.40 - 16.90	- - - - - - - - - - - - - - - - - - -		92 66 44	NI 50 110		Extremely weak and very weak grey and dark grey locally mottled reddish brown MUDSTONE. Fractures are 10-20° very closely and closely spaced planar smooth with a veneer of grey clay frequently stained dark orangish brown. 15.70 - 15.80m: Strong dark grey calcareous mudstone.	14.90	-	
	18C	16.90 - 18.40	1.90		98 78 74	140 NI 60 120		Strong light grey and light bluish grey fine and medium SANDSTONE. Fractures are 10-20° closely spaced planar rough stained orangish brown. Weak dark grey SILTSTONE. Fractures are 10-20° closely spaced planar smooth stained orangish brown. 16.55 - 17.20m: Frequent intersecting 40-60° fractures undulating smooth stained orangish brown.	16.55 -	3.40	* * * * * * * * * * * * * * * * * * *
	(m) casi		_					17.65m: 10mm 10-20° calcite vein. 17.65 - 18.00m: Strong dark grey calcareous siltstone. Continued Next Page CONTE	{18.00} RACT		CKED

flush.

Geotechnical Engineering Ltd, Tel. 01452 527743 30238 YODA.GPJ TRIALJH.GPJ GEOTECH.GLB 16/07/2015 16:11:58 UB

В

Geotechnical Engineering Limited

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

BH544

SITE M4 CORRIDOR AROUND NEWPORT

Sheet 3 of 3

Start Date 4 March 2015 Easting 341861.1

Scale 1:50

End Date 5 March 2015 Northing 187539.5 Ground level 19.95mOD Depth 18.40 m

End Date	5 IV	1arch 2	2015			INOILI	iii ig	10	7539.5 Ground level	19.95m	OD Depth	11	8.40 r
progress date/time water depth	sample no & type	depth	(m)	casing depth (m)	type &	samp. /core range	If	instru -ment	description		depth (m)	reduced level (m)	legend
05/03/15				- - - -							18.40	1.55	× × × × × × × × × × × × ×
05/03/15 1620hrs 1.40m				- - -					Borehole completed at 18.40m.		-		
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vater strike	(m) casi	ng (m)	rose to	(m) ti	ime to ris	e (m)	rema		er not encountered prior to use of wat	AGS	CONTRACT	CHE	CKE
							Croi	indianat.			30238		

Geotechnical Engineering Ltd, Tel. 01452 527743 30238 YODA, GPJ TRIALJH, GPJ GEOTECH, GLB 16/07/2015 16:11:59 UB

В



Borehole No.
CL32-02

Sheet 1 of 1

Project Name:	M4 CaN Additional GI	Co-ordina	tes:	Date(s):	28/09/2015	Hole Type:	
Project No:	JFR8701	Easting:	341877	Drilling Method:			WLS
Location:	Wilcrick Depot, Magor	Northing:	187601	Windowless Sample Rig	Casing Diameter (mm)	Casing Depth (m)	Scale:
Client:	Costain & Vinci Joint Venture	Ground Level (mAOD):	19.99	Logged By: MR			1:25

0.52 PID1 0.0pm 0.52 19.47	Client:		Costain	∝ VIIICI	Joint venture (n	nAOD):	19.99	Log	gea By:	IVIR		1:25	
0.00 (6.29) 19.99 (MADE GROUND) 0.22 PID1 0.0ppm 0.52 ISR of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of t	Well	Water Strike(s)				(mbGL)	Thickness (m)	(mAOD)	Legend		Stratum Description		Scale
0.52 PID1 0.0ppm 0.52 (9.45) 19.47 Shownish grey fine grained SANDSTONE (TINTERN SANDSTONE AT 15thm 1			,	71.						Concre (MADE	ete. E GROUND)		=
(0.48) (0.49) End of Romania at 180m 2 -							(0.30)			Dark gr GRAVE (MADE	rey subangular medium and coarse EL with medium cobble content. E GROUND)	limestone	- - - - -
2 - 3 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4			0.52	PID1	0.0ppm	0.52	(0.48)	19.47		Brownis (TINTE	sh grey fine grained SANDSTONE. RN SANDSTONE FORMATION)		-
4-											End of Borehole at 1.00m		1 -
4-													-
4-													2 —
4-													-
4-													-
													3 —
													-
													-
													4 -
													- - - -
													- - -
Remarks Groundwater Chiselling	Remarks						Г				Chiselling		

Remarks
Hand pit excavated to 0.52m. No groundwater encountered. No visual or olfactory evidence of hyrdocarbon contamination.
Tintern Sandstone is Class B - Partially Weathered

	Groundwater		Chiselling					
Depth Strike (m)	Depth Casing (m)	Level After 20 Mins	Duration (hh:mm)	Top Depth (m)	Base Depth (m)			





Borehole No.

CL32-03

Sheet 1 of 3

Project Name:	M4 CaN Additional GI	Co-ordina	tes:	Date(s):	29/09/2015	Hole Type:	
Project No:	JFR8701	Easting:	341914	Drilling Method:	Pipe Diam	eter: 50mm	WLS
Location:	Wilcrick Depot, Magor	Northing:	187564	Windowless Sample Rig and Rotary Open Hole	Casing Diameter (mm)	Casing Depth (m)	Scale:
Client:	Costain & Vinci Joint Venture	Ground Level (mAOD):	20.11	Logged By: MR			1:25

Client:		Costain	ı ∝ virici	Joint venture (m	AOD):	20.11	Log	gea By:	MR			1:25	
Well	Water Strike(s)	Samı Depth (m)	oles & In Type	Situ Testing Results	Depth (mbGL)	Thickness (m)	Level (mAOD)	Legend		Stra	tum Description		Scale
		Dopui (III)	rype	results	0.00	(0.28)	20.11		Concrete (MADE 0	e. GROUND)			-
					0.28	(0.32)	19.83		GRAVEL	ey subangular me GROUND)	edium and coarse lim	estone	
		0.65 0.65	ES PID1	0.0ppm	0.60 0.70	(0.10)	19.51 19.41		medium (MADE (and coarse of ling		ıbangular /	-
					0.97 0.99	(0.27) (0.14)	19.14 19.12	1	(TINTER	n grey thinly lami RN SANDSTONE MESTONE. RN SANDSTONE			1 -
					1.13		18.98		Reddish (TINTER Reddish	brown MUDSTC RN SANDSTONE	ONE. EFORMATION) led MUDSTONE.		-
	> •								·		ŕ		- - -
													-
													2 -
													- - -
						(3.07)							-
													3 -
													-
	> •												- - - -
													-
					4.20		15.91		Interbed	ded greyish brow	vn fine to medium gra	ained	4 -
									SANDST Beds ap (TINTER	FONE and reddis proximately 0.5m RN SANDSTONE	sh brown fine grained n - 1.0 m thick. E FORMATION)	MUDSTONE.	-
													-
· ;—, · .	<u> </u>									Conti	nued on next sheet		
Remarks							0	Groundwate	er		Chiselling		
							`						

Hand pit excavated to 0.97m. Windowless Sample drilling to 1.13m (refusal) followed by Rotary Open Hole drilling. No visual of olfactory evidence of hydrocarbon contamination. Borehole collapsed to 7.0 m BGL. Tintern Sandstone is Class C - Distinctly Weathered from 0.70 - 0.97 m and Class B - Partially Weathered from 0.99 - 1.13 m

	Groundwater		Chiselling				
Depth Strike (m)	Depth Casing (m)	Level After 20 Mins	Duration (hh:mm)	Top Depth (m)	Base Depth (m		
5.50							





Borehole No. CL32-03

Sheet 2 of 3

Project Name:	M4 CaN Additional GI	Co-ordina	tes:	Date(s):	Hole Type:		
Project No:	JFR8701	Easting:	341914	Drilling Method:	Pipe Diam	eter: 50mm	WLS
Location:	Wilcrick Depot, Magor	Northing:	187564	Windowless Sample Rig and Rotary Open Hole	Casing Diameter (mm)	Casing Depth (m)	Scale:
Client:	Costain & Vinci Joint Venture	Ground Level (mAOD):	20.11	Logged By: MR			1:25

\\/all	Water		oles & In	Situ Testing		Thickness	Level	Logond		C+	tum Description	Cools
vveii	Strike(s)	Depth (m)	Туре	Results	(mbGL)	(m)	(mAOD)			Stra	tum Description	
Well	Water Strike(s)				Depth (mbGL)	(2.20)	Level (mAOD)	Legend	Reddish brow (TINTERN SA		tum Description med MUDSTONE. E FORMATION)	Scale 5
										Conti	inved on post sheet	- - - - - - - - -
										Conti	inued on next sheet	
Remarks								roundwate	or		Chiselling	

Hand pit excavated to 0.97m. Windowless Sample drilling to 1.13m (refusal) followed by Rotary Open Hole drilling. No visual of olfactory evidence of hydrocarbon contamination. Borehole collapsed to 7.0 m BGL. Tintern Sandstone is Class C - Distinctly Weathered from 0.70 - 0.97 m and Class B - Partially Weathered from 0.99 - 1.13 m

	Groundwater		Chiselling				
Depth Strike (m)	Depth Casing (m)	Level After 20 Mins	Duration (hh:mm)	Top Depth (m)	Base Depth (m)		
5.50							





Borehole No.

CL32-03Sheet 3 of 3

Project Name: M4 CaN Additional GI Co-ordinates: Date(s): 28/09/2015 - 29/09/2015 Hole Type: 341914 JFR8701 Easting: WLS Project No: Drilling Method: Pipe Diameter: 50mm Windowless Sample Rig and Rotary Open Hole Casing Diameter Northing: Casing Depth (m) Location: Wilcrick Depot, Magor 187564 Scale: (mm) Costain & Vinci Joint Venture Ground Level Client: 1:25 20.11 Logged By: MR

nt:	Costain	& Vinci	i Joint Venture (mAC	DD):	20.11	Logo	ged By:	MR			1:25	
ell Water Strike(s)			Situ Testing Results	Depth (mbGL)	Thickness (m)	Level (mAOD)	Legend		Strat	tum Description		Sc
1 1				Depth	Thickness				dded greyish brow TONE and reddis proximately 0.5 n RN SANDSTONE	tum Description In fine to medium g th brown fine graine n - 1.0 m thick. FORMATION) Borehole at 12.20m		11 11 12 12 13 13 14

Hand pit excavated to 0.97m. Windowless Sample drilling to 1.13m (refusal) followed by Rotary Open Hole drilling. No visual of olfactory evidence of hydrocarbon contamination. Borehole collapsed to 7.0 m BGL. Tintern Sandstone is Class C - Distinctly Weathered from 0.70 - 0.97 m and Class B - Partially Weathered from 0.99 - 1.13 m

	Groundwater		Chiselling				
Depth Strike (m)	Depth Casing (m)	Level After 20 Mins	Duration (hh:mm)	Top Depth (m)	Base Depth (m)		
5.50							





Borehole No.

CL32-06

Sheet 1 of 1

Project Name:	M4 CaN Additional GI	Co-ordina	tes:	Date(s):		Hole Type:	
Project No:	JFR8701	Easting:	341853	Drilling Method:			WLS
Location:	Wilcrick Depot, Magor	Northing:	187536	Windowless Sample Rig	Casing Diameter (mm)	Casing Depth (m)	Scale:
Client:	Costain & Vinci Joint Venture	Ground Level (mAOD):	20.04	Logged By: MR			1:25

Ciletit.		Oostani	G VIIICI	Joint venture (mAC	DD):	20.04	Logs	geu by.	IVIIX		1.23	
Well	Water	Samp	oles & In	Situ Testing	Depth	Thickness	Level	Legend		Stratum Description		Scale
V V CII	Strike(s)	Depth (m)	Type	Results	(mbGL)	(m)	(mAOD)	Legend	_			Julia
	Strike(s)	0.40 0.40	ES PID1	0.0ppm	0.00 0.20 0.35 0.45 0.80	(m) (0.20) (0.15) (0.10) (0.35) (0.13)	(mAOD) 20.04 19.84 19.69 19.59 19.24		Dark g GRAV (MADE Soft to subang (MADE Firm to and su weak r (TINTE Reddis	ete. E GROUND) grey subangular medium and coarse l	ravel is	2
												_

Hand pit excavated to 0.8m. No groundwater encountered. No visual or olfactory evidence of hydrocarbon contamination. Borehole refused at 0.93m. Tintern Sandstone is Class E - Residual Soil from 0.45 to 0.80 m and Class C - Distinctly Weathered from 0.80 to 0.93 m

	Groundwater		Chiselling			
Depth Strike (m)	epth Strike (m) Depth Casing (m) Level After 20 Mins			Top Depth (m) Base Depth (r		





Borehole No.
CL32-07

Sheet 1 of 1

Project Name:	M4 CaN Additional GI	Co-ordina	tes:	Date(s):	Hole Type:		
Project No:	JFR8701	Easting:	341891	Drilling Method:			WLS
Location:	Wilcrick Depot, Magor	Northing:	187545	Windowless Sample Rig	Casing Diameter (mm)	Casing Depth (m)	Scale:
Client:	Costain & Vinci Joint Venture	Ground Level (mAOD):	20.04	Logged By: MR			1:25

Client:		Costairi	a virici	Joint venture (n	nAOD):	20.04	Logi	gea By:	IVIR			1.25	
Well	Water Strike(s)	Samp Depth (m)	oles & In	Situ Testing Results	Depth (mbGL)	Thickness (m)	Level (mAOD)	Legend		Strat	tum Description		Scale
		Deptil (III)	Type	resuits	0.00	(0.22)	20.04			GROUND)	edium to coarse lim	estone GRAVFI	- - - -
		0.50 0.50	ES PID1	0.0ppm	0.40	(0.18)	19.64		Soft yell	GROUND) lowish grey grave	lly SILT. Gravel is s	ubangular and	- -
		0.00		Сюрри	0.68	(0.12)	19.36	* * * * * * * * * * * * * * * * * * *		sh grey SILTSTON RN SANDSTONE End of			- - - - - -
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			I		I								_
Remarks								Froundwate			Chiselling		_

Remarks
Hand pit excavated to 0.68m. No groundwater encountered. No visual or olfactory evidence of hydrocarbon contamination. Borehole refused at 0.8m

Tintern Sandstone is Class E - Residual Soil from 0.40 to 0.68 m and Class D - Destructed from	
0.68 to 0.8m	

	Groundwater		Chiselling			
Depth Strike (m)	Depth Casing (m)	Level After 20 Mins	Duration (hh:mm)	Top Depth (m)	Base Depth (m)	





Borehole No. CL32-08

Sheet 1 of 1

Project Name: M4 CaN Additional GI Co-ordinates: Date(s): 28/09/2015 Hole Type: Easting: Project No: JFR8701 341903 Drilling Method: WLS Casing Diameter (mm) Northing: 187546 Casing Depth (m) Scale: Location: Wilcrick Depot, Magor Windowless Sample Rig Costain & Vinci Joint Venture Ground Level (mAOD): Client: Logged By: MR 1:25 20.08

Depth (m) Type Results (III) (III) (IIIAOD) 0.00 (0.22) 19.86 Concrete. (MADE GROUND) 0.22 19.86 Dark grey subangular medium to coarse limestone GRAVEL. (MADE GROUND) 0.55 ES (0.55 PID1 0.0ppm 0.61 (0.20) 19.47 medium and coarse limestone. (MADE GROUND) 19.47 medium and coarse limestone. (MADE GROUND) Firm to very stiff reddish brown gravelly CLAY. Gravel is subangular and subrounded fine and medium lithorelicts mudstone. (TINTERN SANDSTONE FORMATION)	Depth (m) Type Results (mbGL) (m) (mAOD) Legend Stratum Description	Ciletit.		Costairi	& VIIICI	John Venture (m/	(OD):	20.00	Log	geu by.	IVIIX		1.25	
Depth (m) Type Results Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Co	Depth (m) Type Results (III) (III) (IIIAOD) 0.00 (0.22) 20.08 (MADE GROUND) 0.22 19.86 Dark grey subangular medium to coarse limestone GRAVI (MADE GROUND) 0.55 ES (0.28) 20.08 (MADE GROUND) 0.55 PID1 0.0ppm 0.61 (0.11) (0.20) Firm to very stiff reddish brown gravelly CLAY. Gravel is subangular medium and coarse limestone. (MADE GROUND) 19.47 (MADE GROUND) 19.47 (MADE GROUND) 19.47 (MADE GROUND) Firm to very stiff reddish brown gravelly CLAY. Gravel is subangular and subrounded fine and medium lithorelicts mudstone. (TINTERN SANDSTONE FORMATION) Reddish brown fine grained MUDSTONE.	Well	Water	•	oles & In	_	Depth	Thickness	Level	Legend		Stratum Description		Scale
0.22 19.86 (0.28) 19.86 (0.28) 19.86 (0.28) 19.87 (0.29) 19.87 (0.29) 19.87 (0.29) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27 (0.21) 19.27	0.22 (0.22) 19.86 (MADE GROUND) Dark grey subangular medium to coarse limestone GRAVI (MADE GROUND) Soft brown slightly gravelly CLAY. Gravel is subangular medium and coarse limestone. (MADE GROUND) 19.87 (0.20) 0.81 (0.21) 19.88 Soft brown slightly gravelly CLAY. Gravel is subangular medium and coarse limestone. (MADE GROUND) Firm to very stiff reddish brown gravelly CLAY. Gravel is subangular and subrounded fine and medium lithorelicts mudstone. (TINTERN SANDSTONE FORMATION) Reddish brown fine grained MUDSTONE.	*******	Strike(s)	Depth (m)	Туре	Results	1	(m)		Logeria				Coale
		Well	Water Strike(s)	Depth (m) 0.55	Type	Results	0.00 0.22 0.50 0.61	(0.22) (0.28) (0.11) (0.20)	(mAOD) 20.08 19.86 19.58 19.47	Legend	Concre (MADE Dark g (MADE Soft br mediun (MADE Firm to subang mudste (TINTE Reddis	ete. E GROUND) grey subangular medium to coarse line E GROUND) rown slightly gravelly CLAY. Gravel is mand coarse limestone. E GROUND) D very stiff reddish brown gravelly CL gular and subrounded fine and mediuone. ERN SANDSTONE FORMATION) Sh brown fine grained MUDSTONE.	subangular AY. Gravel is	2 -

Remarks
Hand pit excavated to 0.81m. No groundwater encountered. No visual or
olfactory evidence of hydrocarbon contamination. Borehole refused at 1.12m.

Tintern Sandstone is Class E - Residual Soil from 0.61 to 0.81 m and Class B
- Partially Weathered from 0.81 to 1.12 m

	Groundwater		Chiselling				
Depth Strike (m)	Depth Casing (m)	Level After 20 Mins	Duration (hh:mm)	Top Depth (m)	Base Depth (m)		





Borehole No.
CL32-09

Sheet 1 of 3

Project Name: M4 CaN Additional GI Co-ordinates: Date(s): 28/09/2015 - 29/09/2015 Hole Type: JFR8701 Easting: 341899 WLS Project No: Drilling Method: Pipe Diameter: 50mm Windowless Sample Rig and Casing Diameter Northing: Casing Depth (m) Location: Wilcrick Depot, Magor 187538 Scale: (mm) 15 Rotary Open Hole 2.00 Costain & Vinci Joint Venture Ground Level (mAOD): 1:25 Client: 20.15 MR Logged By:

Hand pit excavated to 0.75m. Windowless Sample drilling to 0.9m (refusal) followed by Rotary Open Hole drilling. No visual or olfactory evidence of hydrocarbon contamination. Tintern Sandstone is Class C - Distinctly Weathered from 0.45 to 0.75 m and Class B - Partially Weathered from 0.75 to 0.90 m

	Groundwater			Chiselling	
Depth Strike (m)	Depth Casing (m)	Level After 20 Mins	Duration (hh:mm)	Top Depth (m)	Base Depth (m)
2.70	2.00				





Borehole No.
CL32-09

Sheet 2 of 3

Project Name: M4 CaN Additional GI Co-ordinates: Date(s): 28/09/2015 - 29/09/2015 Hole Type: JFR8701 Easting: 341899 WLS Project No: Drilling Method: Pipe Diameter: 50mm Windowless Sample Rig and Casing Diameter Northing: Casing Depth (m) Location: Wilcrick Depot, Magor 187538 Scale: (mm) 15 Rotary Open Hole 2.00 Costain & Vinci Joint Venture Ground Level (mAOD): 1:25 Client: 20.15 MR Logged By:

Jilent:				Joint venture		20.15			IVIK			1:25	_
Well	Water Strike(s)	Samı Depth (m)	Type	Situ Testing Results	Depth (mbGL)	Thickness (m)	Level (mAOD)	Legend		Stratu	ım Description		Sc
		Depth (m)	Туре	Results	(IIIDOL)	(111)	(IIIAOD)						5
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\equiv					6.30		13.85						
\equiv					0.00		10.00		Interbe	edded greyish brown STONE and reddish approximately 0.5m ERN SANDSTONE F	fine to medium g	grained	
-:								::::::	Beds a	approximately 0.5m	- 1.0m thick.	ed MODSTONE.	
:_:::::::::::::::::::::::::::::::::::::									(TINTE	ERN SANDSTONE F	FORMATION)		
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narks						1		roundwat			hiselling		

Hand pit excavated to 0.75m. Windowless Sample drilling to 0.9m (refusal) followed by Rotary Open Hole drilling. No visual or olfactory evidence of hydrocarbon contamination. Tintern Sandstone is Class C - Distinctly Weathered from 0.45 to 0.75 m and Class B - Partially Weathered from 0.75 to 0.90 m

	Groundwater			Chiselling	
Depth Strike (m)	Depth Casing (m)	Level After 20 Mins	Duration (hh:mm)	Top Depth (m)	Base Depth (m)
2.70	2.00				





Borehole No.

CL32-09 Sheet 3 of 3

	<u> </u>						
Project Name:	M4 CaN Additional GI	Co-ordinat	tes:	Date(s):	28/09/2015 - 2	9/09/2015	Hole Type:
Project No:	JFR8701	Easting:	341899	Drilling Method:	Pipe Diam	eter: 50mm	WLS
Location:	Wilcrick Depot, Magor	Northing:	187538	Windowless Sample Rig and Rotary Open Hole	Casing Diameter (mm)	Casing Depth (m)	Scale:
Client:	Costain & Vinci Joint Venture	Ground Level (mAOD):	20.15	Logged By: MR	15	2.00	1:25

Client:				Joint Venture (mAOI		20.15	Logg	ged By:	MR			1:25	
Well	Water Strike(s)	Samp Depth (m)	oles & In S	Situ Testing Results	Depth (mbGL)	Thickness (m)	Level (mAOD)	Legend		Stra	tum Description		Scale
::-:::		Depair (iii)	Турс	results	, , ,	,	,	: : : : :					4.0
										End of	Borehole at 10.00m		10
													11 -
													12
													13
													13
													14
Remarks							G	roundwate	or		Chisellina		

Hand pit excavated to 0.75m. Windowless Sample drilling to 0.9m (refusal) followed by Rotary Open Hole drilling. No visual or olfactory evidence of hydrocarbon contamination. Tintern Sandstone is Class C - Distinctly Weathered from 0.45 to 0.75 m and Class B - Partially Weathered from 0.75 to 0.90 m

	Groundwater		Chiselling						
Depth Strike (m)	Depth Casing (m)	Level After 20 Mins	Duration (hh:mm)	Top Depth (m)	Base Depth (m)				
2.70	2.00								



Appendix 2

Gas and Groundwater Monitoring Dataset

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH544	17/04/15 11:30:00	1020	-0.35								0.0	12		60 litres purged, base depth
BH544	17/04/15 11:31:00										0.0			18.40m.
BH544	17/04/15 11:32:00										0.0			
BH544	17/04/15 11:33:00										0.0			
BH544	17/04/15 11:34:00										0.0			
BH544	17/04/15 11:35:00			0.8	0.1	12.1	1.0	0	0	5.3				
BH544	17/04/15 11:36:00			0.7	0.1	12.0	1.0	0	0	4.5				
BH544	17/04/15 11:37:00			0.6	0.1	12.6	1.0	0	0	3.5				
BH544	17/04/15 11:38:00			0.6	0.1	12.8	1.0	0	0	3.0				
BH544	17/04/15 11:39:00			0.6	0.1	12.5	1.0	0	0	2.8				
BH544	17/04/15 11:40:00			0.6	0.1	12.5	1.0	0	0	2.8				
BH544	17/04/15 11:41:00			0.7	0.1	12.3	1.0	0	0	2.5				
BH544	17/04/15 11:42:00			0.7	0.1	12.3	1.0	0	0	2.4				
BH544	17/04/15 11:43:00			0.7	0.1	12.4	1.0	0	0	2.3				
BH544	17/04/15 11:44:00			0.7	0.1	12.5	1.0	0	0	2.3			8.34	
BH544	24/04/15 13:30:00	1012	-0.63								0.0	13		60 litres purged, base depth 18.40m.
BH544	24/04/15 13:31:00										0.0			10.40111.
BH544	24/04/15 13:32:00										0.0			
remarks														CONTRACT CHECKED

denotes result exceeding capacity of gas monitoring equipment

VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT

CHECKED 30238 EC

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH544	24/04/15 13:33:00										0.0			
BH544	24/04/15 13:34:00										0.0			
BH544	24/04/15 13:35:00			1.3	0.1	14.5	1.0	0	0	4.7				
BH544	24/04/15 13:36:00			1.3	0.1	14.4	1.0	0	0	4.1				
BH544	24/04/15 13:37:00			1.3	0.1	14.3	1.0	0	0	3.7				
BH544	24/04/15 13:38:00			1.3	0.1	14.2	1.0	0	0	3.2				
BH544	24/04/15 13:39:00			1.3	0.1	14.2	1.0	0	0	3.1				
BH544	24/04/15 13:40:00			1.3	0.1	14.2	0.0	0	0	2.9				
BH544	24/04/15 13:41:00			1.3	0.1	14.1	1.0	0	0	2.7				
BH544	24/04/15 13:42:00			1.3	0.1	14.1	1.0	0	0	2.5				
BH544	24/04/15 13:43:00			1.3	0.1	14.1	1.0	0	0	2.5				
BH544	24/04/15 13:44:00			1.3	0.1	14.1	1.0	0	0	2.5			8.36	
BH544	01/05/15 11:00:00	992	-0.89								0.0	9		59 litres purged, base depth 18.40m.
BH544	01/05/15 11:01:00										0.0			10.40111.
BH544	01/05/15 11:02:00										0.0			
BH544	01/05/15 11:03:00										0.0			
BH544	01/05/15 11:04:00										0.0			
BH544	01/05/15 11:05:00			0.0	0.0	20.8	0.0	0	0	2.3				
remarks													<u> </u>	CONTRACT CHECKED

denotes result exceeding capacity of gas monitoring equipment

VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT

30238

CHECKED EC

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remari	KS .
BH544	01/05/15 11:06:00			0.1	0.0	20.4	0.0	0	0	2.1					
BH544	01/05/15 11:07:00			0.3	0.0	18.8	1.0	0	0	2.0					
BH544	01/05/15 11:08:00			0.4	0.0	18.1	1.0	0	0	1.9					
BH544	01/05/15 11:09:00			0.6	0.0	17.8	1.0	0	0	1.7					
BH544	01/05/15 11:10:00			0.7	0.0	17.8	1.0	0	0	1.6					
BH544	01/05/15 11:11:00			0.7	0.0	17.9	1.0	0	0	1.5					
BH544	01/05/15 11:12:00			8.0	0.0	17.9	1.0	0	0	1.5					
BH544	01/05/15 11:13:00			0.8	0.0	18.0	1.0	0	0	1.4					
BH544	01/05/15 11:14:00			0.8	0.0	18.0	1.0	0	0	1.4			8.44		
BH544	11/05/15 12:42:00	1017	0								0.0	16			
BH544	11/05/15 12:43:00										0.0				
BH544	11/05/15 12:44:00										0.0				
BH544	11/05/15 12:45:00										0.0				
BH544	11/05/15 12:46:00										0.0				
BH544	11/05/15 12:47:00			0.7	0.0	11.4	0.0	0	0	0.2					
BH544	11/05/15 12:48:00			0.7	0.0	11.3	0.0	0	0	0.0					
BH544	11/05/15 12:49:00			0.7	0.0	11.2	0.0	0	0	0.0					
BH544	11/05/15 12:50:00			0.7	0.0	11.2	0.0	0	0	0.0					
remarks														CONTRACT	CHECKE

denotes result exceeding capacity of gas monitoring equipment

VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT

30238

EC

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remark	s
BH544	11/05/15 12:51:00			0.7	0.0	11.3	0.0	0	0	0.0					
BH544	11/05/15 12:52:00			0.8	0.0	11.3	0.0	0	0	0.0					
BH544	11/05/15 12:53:00			0.8	0.0	11.4	0.0	0	0	0.0					
BH544	11/05/15 12:54:00			0.8	0.0	11.5	0.0	0	0	0.0					
BH544	11/05/15 12:55:00			0.9	0.0	11.6	0.0	0	0	0.0					
BH544	11/05/15 12:56:00			0.9	0.0	11.6	0.0	0	0	0.0					
BH544	11/05/15 12:57:00												9.72		
remarks	esult exceeding capacity	-f					I.	<u> </u>	l .	I	I			CONTRACT	CHECK

denotes result exceeding capacity of gas monitoring equipment

VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

30238

EC

Gas Monitoring Record

Project Number:	JFR8701
Project Name:	Wilcrick Depot
Date:	15/10/2015
Logger	EF

Weather:	Dry & cold

*mbgl - Meters below Ground Level

			Initial	10 secs	20 secs	30 secs	40 secs	50 secs	60 secs	70 secs	80 secs	90 secs	100 secs	110 secs	120 secs	130 secs	140 secs	150 secs	180 secs	300 secs	Groundwater Level (mbgl*)	Borehole Base (mbgl*)	Comments
Borehole ID	BH544	CH4 (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Flow Rate (I/hr)	0	CO2 (%)	0	0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1			
tmospheric ressure (mbar)	1021	H2S (ppm)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.50	47.00	
orehole Pressure	Not Measured	O2 (%)	20.7	20.7	15	15	11.8	11.8	11.5	11.5	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	8.53	17.92	
ime	10:30	LEL (%)	2	2	1	0	0	0	1	1	0	0	1	1	1	1	1	1	1	1			
Peak VOC	Not Measured	CO (ppm)	2	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			Initial	10 secs	20 secs	30 secs	40 secs	50 secs	60 secs	70 secs	80 secs	90 secs	100 secs	110 secs	120 secs	130 secs	140 secs	150 secs	180 secs	300 secs	Groundwater Level (mbgl*)	Borehole Base (mbgl*)	Comments
orehole ID	CL32-09	CH4 (%)	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
low Rate (I/hr)	0	CO2 (%)	0	0.9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
tmospheric ressure (mbar)	1021	H2S (ppm)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.44	10.19	
		00 (0/)	20.4	19.7	18	18	16.7	16.7	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	8.14	10.18	
	Not Measured	O2 (%)	20.7			T .																	
orehole Pressure Pa) ime	Not Measured 11:20	LEL (%)	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	11			
Pa)				0	0	0	1 0	0	0	0	1	0	0	0	0	0	0	0	0	0			

			Initial	10 secs	20 secs	30 secs	40 secs	50 secs	60 secs	70 secs	80 secs	90 secs	100 secs	110 secs	120 secs	130 secs	140 secs	150 secs	180 secs	300 secs	Groundwater Level (mbgl*)	Borehole Base (mbgl*)	Comments
Borehole ID	CL32-03	CH4 (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Flow Rate (I/hr)	0	CO2 (%)	0	0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1			
Atmospheric Pressure (mbar)	1021	H2S (ppm)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.83	6.87	
Borehole Pressure (Pa)	Not Measured	O2 (%)	20.7	20.5	20.2	20	19.5	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	6.63	0.07	
Time	12:15	LEL (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Peak VOC	Not Measured	CO (ppm)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

Appendix 3

Soil Laboratory Data

M4CAN
Soil Analysis Results & Screening Assessment
CL-32 Sample Reference Specimen Depth (m) OD Level (m) Sample Type Geology Code <3.5
<0.3
35
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53 12.9 <0.5 16.2 21 <1 2100 644 0.068 0.052 337 0.011 0.039 0.012 0.037 144 4 NFD NFD NAD NAD NAIIS

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Screening Values and Assessment

Exceeds S4ULs criteria

X Laboratory detection level higher than screening criterion

No.						
Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	Selected S4ULs Criteria	No. Data Exceeding S4ULs Criteria
6	2	4.3	2	SWSN02 @ 25.71mbGL		_
17 6 6	16 6 5	29 92 0.9	3.7 27 0.43	BH544 @ 19.75mbGL SWSN02 @ 25.71mbGL CH55 @ 21.45mbGL	170 46000	0
6 17	0	None > LOD 1.4	None > LOD 0.04	STPN02 @ 26.59mbGL	190	0
17 17	17 15	57.3 34.5	6.1 0.9	BHN3 @ 25.6mbGL BHN3 @ 25.6mbGL	33 44000	3 0
17 16 6	17 2 1	38 0.11	0.01 0.8	CH56-0 @ 20.64mbGL BH544 @ 19.45mbGL	1300 30	0
17	17	0.8 56 0.85	0.8 2 0.3	SWSN02 @ 25.71mbGL SWSN02 @ 25.71mbGL CH55 @ 21.2mbGL	980 1800	0
17	17	73	16.2	BH544 @ 19.45mbGL	170000	0
12 3	1 0	0.1 None > LOD	0.1 None > LOD	BHN3 @ 25.6mbGL		
1 1 3	0 0 3	None > LOD None > LOD 2100	None > LOD None > LOD 337	CH55 @ 21.45mbGL		
6	6	0.068 328	0.011 328	STPN02 @ 26.59mbGL BHN3 @ 25.6mbGL		
3 13	2	144 None > LOD	4 None > LOD	CH55 @ 21.45mbGL		
4 5	4	2.5 0.2	1 0.2	STPN02 @ 26.39mbGL STPN01 @ 19.6mbGL		
17	17	11.59	7.6	SWSN01 @ 19.62mbGL	6-9	6
3	3	4980 6100	12 185	CH55 @ 21.45mbGL CH55 @ 21.45mbGL	1.1 3200	1
6	0	15900 None > LOD	182 None > LOD	CH55 @ 21.45mbGL	0.24	0
1 1	0	None > LOD None > LOD	None > LOD None > LOD		0.24 0.24	0
1	0	None > LOD None > LOD	None > LOD None > LOD		0.24 0.24	0
1	0	None > LOD None > LOD	None > LOD None > LOD		0.24 0.24	0
1 1	0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0.24 0.24 0.24	0 0
1 1	0	None > LOD None > LOD	None > LOD None > LOD		0.24 0.24	0
1	0	None > LOD	None > LOD		0.24	0
3	0	None > LOD None > LOD	None > LOD None > LOD		440 440	0
8	0	None > LOD	None > LOD		440	0
7 7	0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		27	0
7	0	None > LOD None > LOD	None > LOD None > LOD		56000 5700	0
7	0	None > LOD None > LOD	None > LOD None > LOD		5900 6600	0
7	0	None > LOD	None > LOD		3200	0
7	0	None > LOD None > LOD	None > LOD None > LOD		7800 2000	0
7 7 7	0 2 2	None > LOD 4.6 15	None > LOD 0.41 0.99	SWSN01 @ 19.62mbGL	9700 25000 450000	0 0
7 7 6	3	15 25 35	0.99 1.7 3.1	SWSN01 @ 19.62mbGL SWSN01 @ 19.42mbGL SWSN01 @ 19.62mbGL	450000 450000	0
1	0	None > LOD None > LOD	None > LOD None > LOD	@ AJ.OZIIIDGL	450000 26000	0
6 7	0	None > LOD None > LOD	None > LOD None > LOD		7800 56000	0
7	0	None > LOD None > LOD	None > LOD None > LOD	CIMICAIOA	3500 9200	0
7 7 7	2 2 2	0.32 0.57 12	0.13 0.11 5.1	SWSN01 @ 19.62mbGL SWSN01 @ 19.62mbGL SWSN01 @ 19.62mbGL	7600 7800	0 0
6	2	13 None > LOD	5.4 None > LOD	SWSN01 @ 19.62mbGL SWSN01 @ 19.62mbGL	7800	0
1	0	None > LOD	None > LOD			
1	0	None > LOD	None > LOD			
11	7	48	3.1	SWSN01 @ 19.62mbGL		
6	0	None > LOD None > LOD	None > LOD None > LOD			
14 14	1	0.15 0.01	0.15 0.01	STPN01 @ 19.4mbGL SWSN01 @ 19.62mbGL	29000 29000	0
14 14 14	7	0.029 0.22 0.18	0.029 0.018 0.013	SWSN01 @ 19.62mbGL STPN01 @ 19.4mbGL SWSN01 @ 19.62mbGL	150000 49 11	0 0
14	4	0.22	0.021 0.012	SWSN01 @ 19.62mbGL SWSN01 @ 19.62mbGL	13	0
14 14	1 6	0.091 0.22	0.091 0.012	SWSN01 @ 19.62mbGL STPN01 @ 19.4mbGL	370 93	0
14 14 14	3	0.019 0.64 0.15	0.019 0.026 0.014	SWSN01 @ 19.62mbGL STPN01 @ 19.4mbGL	1.1 6300 20000	0
14 14	1 3	0.09 0.033	0.014 0.09 0.013	STPN01 @ 19.4mbGL SWSN01 @ 19.62mbGL STPN01 @ 19.6mbGL	150 190	0 0
14	4 3	0.084	0.021 0.032	SWSN01 @ 19.62mbGL STPN01 @ 19.4mbGL	6200 15000	0
13	5	1.4	0.058	SWSN01 @ 19.62mbGL		
	0					
6		None > LOD	None > LOD			
6 6	0	None > LOD None > LOD	None > LOD None > LOD			
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Appendix 4

Groundwater Laboratory Data

M4CAN
Groundwater Analysis Results & Screening Assessment
CL-32
Dev[07/7015

Monitoring Round Location Date Sampled			g Criteria	1 BH544	2 BH544	3 BH544	8H544	1 CL32-0
Date Sampled Depth (mbGL)	Units	EQS	DWS	17/04/2015 8.35	24/04/2015 8.37	01/05/2015 8.48	15/10/2015 8.53	15/10/20 8.14
nstallation Details				В	В	В	В	В
Metals	ļ .							
Arsenic Boron	ug/l ug/l	50 2000	1000	<1 <20	<1 23	1.2 26	<1 <10	<1 <10
Cadmium Chromium	ug/l ug/l	0.15	5 50	<0.08	<0.08 <1	<1 <1	<0.1	<0.1
Copper	ug/l	10	2000	<1	<1	<1	<1	<1
ead Mercury	ug/l ug/l	1.2 0.07	10	<1 <0.5	<1 <0.5	<1 <0.5	<1 <0.1	<1 <0.1
Nickel /anadium	ug/l ug/l	4	20	<1	<1	<1	<1	<1 <1
Selenium	ug/l ug/l	75	10	<1 1.3	<1 1.5	1.3	<1 2	<1 16
Non-Metal Inorganics		/3						
Total Alkalinity as CaCO3 Conductivity	mg/l uS/cm			370	250	360	300 1060	297 1000
Chloride Fotal Sulphur as SO4	mg/l mg/l	250	250	210	190	180	134 29	123 27
Ammoniacal Nitrogen as N	mg/l	0.6	0.05	0.012	<0.01	0.011	<0.01	<0.01
Fotal Cyanide Free Cyanide	mg/l mg/l	0.001	0.05	<0.05 <0.05	<0.05 <0.05	<0.05 <0.05		
Nitrite as N Nitrate as N	mg/l mg/l						<0.01 3.8	0.09 4.5
Dissolved Oxygen	mg/l						7.5	7.7
Phenois	pH units	6-9	6.5-10	7.7	8.4	8	7.5	7.7
Phenol Phenols	ug/l mg/l	7.7 0.0077		<0.5 <0.3	<0.5 <0.3	<0.5 <0.3		
BTEX								
denzene Foluene	ug/l ug/l	10 50	1	<1 <1	<1 <1	<1 <1	<10 <10	<10 <10
thyl benzene n & p Xylene	ug/l ug/l	20 30		<1 <1	<1	<1 <1	<10 <10	<10 <10
Xylene	ug/l	30		<1	<1	<1	<10	<10
TPH :5 - C6	mg/l						<0.2	<0.2
-C6 - C7 -C7 - C8	mg/l mg/l						<0.2 <0.2	<0.2 <0.2
C8 - C10	mg/l						<0.2	<0.2
otal GRO Jiphatics C5-C6	mg/l ug/l			<0.1	<0.1	<0.1	<0.2 <0.1	<0.2 <0.1
liphatics >C6-C8 liphatics >C8-C10	ug/l ug/l			<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1
Aliphatics >C10-C12	ug/l			<0.1	<0.1	<0.1	<0.1	<0.1
liphatics >C12-C16 liphatics >C16-C21	ug/l ug/l			<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1
liphatics >C21-C35 liphatics >C35-44	ug/l ug/l			<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1	0.076
romatics >C5-C7	ug/l			<0.1	<0.1	<0.1	<0.1	<0.1
romatics >C7-C8 romatics >EC8-EC10	ug/l ug/l			<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1
romatics >EC10-EC12 romatics >EC12-EC16	ug/l ug/l			<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1
romatics >EC16-EC21	ug/l			<0.1	<0.1	<0.1	<0.1	<0.1
Aromatics >EC21-EC35 Aromatics >C35-44	ug/l ug/l			<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1	0.024
otal Aliphatic TPH otal Aromatic TPH	ug/l ug/l	 		<5 <5	<5 <5	<5 <5	<0.1 <0.1	0.088
otal petroleum hydrocarbons	ug/l			<10	<10	<10		023
PAH Acenaphthene	ug/l			<0.1	<0.1	<0.1	<0.010	<0.010
Acenaphthylene	ug/l ug/l	0.1		<0.1	<0.1	<0.1	<0.010	<0.010
Benz(a)anthracene	ug/l			<0.1	<0.1	<0.1	< 0.010	< 0.010
Benzo(a)pyrene Benzo(b)fluoranthene	ug/l ug/l	0.00017 0.017	0.01	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.010 <0.010	<0.010 <0.010
Benzo(ghi)perylene Benzo(k)fluoranthene	ug/l ug/l	0.0082 0.017	0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.010 <0.010	<0.010
hrysene	ug/l	0.017	0.1	<0.1	<0.1	<0.1	< 0.010	< 0.010
Dibenzo(ah)anthracene Iluoranthene	ug/l ug/l	0.0063		<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.010 <0.010	<0.010
luorene ndeno(123cd)pyrene	ug/l	N/A	0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.010 <0.010	<0.010
Iaphthalene	ug/l ug/l	2	0.1	<0.1	<0.1	<0.1	<0.020	< 0.020
henanthrene hyrene	ug/l ug/l			<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.010 <0.010	<0.010
AH 16 Total VOCs	ug/l			<2	<2	<2	<0.170	<0.173
,1,1,2-Tetrachloroethane	ug/l			<2	<2	<2	<2	<2
I,1,1-Trichloroethane I,1,2-Trichloroethane	ug/l ug/l	100 400		<1 <10	<1 <10	<1 <10	<1 <10	<1 <10
,1-Dichloroethane ,1-Dichloroethene	ug/l ug/l			<1	<1 <1	<1	<1	<1 <1
,1-Dichloropropene	ug/l			<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene 1,2,3-Trichloropropane	ug/l ug/l	0.4		<2 <50	<2 <50	<2 <50	<2 <50	<2 <50
,2,4-Trichlorobenzene	ug/l	0.4		<1 <1	<1 <1	<1 <1	<1	<1 <1
,2-Dibromo-3-Chloropropane	ug/l ug/l			<50	<50	<50	<50	<50
,2-Dibromoethane ,2-Dichlorobenzene	ug/l ug/l	20		<5 <1	<5 <1	<5 <1	<5 <1	<5 <1
,2-Dichloroethane ,2-Dichloropropane	ug/l ug/l	10	3	<2 <1	<2 <1	<2 <1	<2 <1	<2 <1
,3,5-Trimethylbenzene	ug/l			<1	<1	<1	<1	<1
,3-Dichloropropane ,4-Dichlorobenzene	ug/l ug/l	20		<2 <1	<2 <1	<2 <1	<2 <1	<2 <1
-Chlorotoluene I-Chlorotoluene	ug/l ug/l			<1	<1 <1	<1	<1	<1 <1
-Isopropyltoluene	ug/l			<1	<1	<1	<1	<1
Benzene Bromobenzene	ug/l ug/l	10	1	<1 <1	<1 <1	<1 <1	<1	<1 <1
Bromochloromethane Bromodichloromethane	ug/l ug/l		100	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5
Bromomethane	ug/l			<5	<5	<5	<5	<5
Chlorobenzene Chloroethane	ug/l ug/l			<1 <1	<1 <1	<1 <1	<1	<1 <1
Chloroethene	ug/l	2.5	100	<1	<1	<1	<1	<1 <1
Chloromethane	ug/l ug/l	2.3	100	<1	<1	<1	<1	<1
is-1,2-Dichloroethene is-1,3-Dichloropropene	ug/l ug/l			<1 <10	<1 <10	<1 <10	<1 <10	<1 <10
Dibromochloromethane Dibromomethane	ug/l		100	<10 <10	<10 <10	<10 <10	<10 <10	<10 <10
Dichlorodifluoromethane	ug/l ug/l			<1	<1	<1	<1	<1
thylbenzene Hexachlorobutadiene (HCBD)	ug/l ug/l	20 0.6		<1	<1	<1 <1 <1	<1 <1	<1 <1
sopropylbenzene n,p xylenes	ug/l	30		<1	<1	<1	<1	<1 <1
Methyl tert-butyl ether (MTBE)	ug/l ug/l	oU.		<1	<1	<1	<1	<1
ı-Butylbenzene ı-propylbenzene	ug/l ug/l			<1 <1	<1 <1	<1 <1	<1	<1 <1
)-Xylene	ug/l ug/l	30		<1	-4	<1	<1	<1 <1
ec-Butylbenzene				<1	<1 <1	<1		
tyrene	ug/l	50		<1 <1	<1 <1	<1	<1	<1
tyrene ert-Butylbenzene etrachloroethene	ug/l ug/l ug/l	50	10	<1 <1 <1 <1	<1 <1 <1 <1	<1 <1 <1	<1 <1	<1 <1
tyrene ert-Butylbenzene etrachloroethene etrachloromethane (Carbon Tetra Chloride)	ug/l ug/l ug/l ug/l	50 10 12	10	<1 <1 <1 <1 <1	<1 <1 <1 <1 <1	<1 <1 <1 <1	<1 <1 <1	<1 <1 <1
tyrene ert-Butylbenzene etrachloroethene etrachloromethane (Carbon Tetra Chloride) oluene rans-1,2-Dichloroethene	ug/l ug/l ug/l ug/l ug/l ug/l	50		<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1	4 4 4 4	<1 <1 <1 <1 <1
tyrene etr-Butylbenzene etrachloroethene etrachloromethane (Carbon Tetra Chloride) oluene rans-1,2-Dichloroethene rans-1,3-Dichloropropene ribromomethane	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	50 10 12 50	100	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	41 41 41 41 41 41 410 41	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <
tyrene etra-Butylbenzene etra-Chlororethene etra-Chloromethane (Carbon Tetra Chloride) oluene rans-1,2-Dichloropropene ribromomethane richloromethane	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	50 10 12	3	41 41 41 41 41 41 41 41 41 41	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <10	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <
tyrene ert-Butylbenzene etrachloroethene etrachloroethene etrachloromethane (Carbon Tetra Chloride) oluene rans-1,2-Dichloropropene rinsomementane richloroethene richloroethene richloroethene richlorofluoromethane SVOCs	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	50 10 12 50	100	41 41 41 41 41 41 41 40 41 41	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <
tyrene ert-Butylbenzene etrachlororethene etrachlororethene etrachlororethene etrachlorormethane (Carbon Tetra Chloride) oluene ans-1,2-Dichlororethene ans-1,2-Dichlororpopene richlororethene richlororethene richlororethene richlororethene svocs solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven solven s	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	50 10 12 50	100	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	41 41 41 41 41 41 41 41 41 41 41 41 41 4	41 41 41 41 41 41 41 41 41 40.5
tyrene ert-Butylbenzene etra-Chrorethene etra-Chrorethene etra-Chrorethene etra-Chrorethene rans-1,3-Dichloroptene ribromomethane richloroptene etrichloroptene etrichloroptene etrichloroptene etrichloroptene etrichloroptene etrichloroptene etrichloroptene syocs 3-Dichlorobenzene 4,3-5-Tirichlorophenol 4,6-5-Tirichlorophenol	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	50 10 12 50	100	41 41 41 41 41 41 41 41 41 41 41 41 41 4	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2<	41 41 41 41 41 41 41 41 41 41 41 41 41 4	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <
tyrene etra-Butylbenzene etra-Butylbenzene etra-Chiororethene etra-Chiororethene etra-Chiororethene etra-Chiororethene etra-S-1, 2-Dichlororethene etra-S-1, 3-Dichlororethene etrichororethene etrichororethene etrichloroftloromethane etrichloroftloromethane SVOCS ,3-Dichlorobenzene ,4,5-Trichlorophenol ,4,6-Trichlorophenol ,4-Dichlorophenol ,4-Dichlorophenol	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	50 10 12 50 10	100	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <0.5 <0.5 <0.5 <0.5 <0.5	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <
tyrene ert-Butylbenzene etra-Chiororethene etra-Chiororethene etra-Chiororethene etra-Chiororethene etra-Chiororethene etra-La-Dickloropropene etrib-commethane etrichlororethene etrichlororethene etrichlororethene etrichlororethene etrichlororethene svOCS 3-Dicklororbenzene A,6-Tricklorophenol A-Fricklorophenol A-Dimethylphenol A-Dimethylphenol A-Dimethylphenol A-Dimethylphenol B-Dimitrotoluene B-Collinitrotoluene	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	50 10 12 50 10	100	 d1 d1 d1 d1 d1 d1 d1 d1 d1 d1 d2 d2 d3 d4 d5 d6 d6 d7 d7 d8 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	41 41 41 41 41 41 41 41 41 41 41 41 41 42 45 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <
tyrene etra-Butylbenzene etra-Chioroethene etra-Chioroethene etra-Chioroethene douene ans-1,3-Dichloroptropene ribromomethane richloroethene richloroethene richloroethene richloroethene svOCs 3-Dichlorobenzene A,5-Trichlorophenol A,6-Trichlorophenol A-Dimethylophenol A-Dimethylophenol A-Dimethylophenol A-Dimethylophenol C-Dioronaphthalene C-Chioronaphthalene C-Chioronaphthalene	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	50 10 12 50 10	100	 d1 d1 d1 d1 d1 d1 d1 d2 d3 d4 d4 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d5 d6 d7 d6 d7 d7 d7 d6 d7 d7 d7 d6 d7 d7 d7 d7 d8 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d9 d	41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 40 5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5	 d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e	41 41 41 41 41 41 41 41 41 40 50.5 60.5 60.5 60.5 60.5 60.5 60.5 60.	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <
tyrene etr-Butylbenzene etrachioroethene etrachioroethene etrachioromethane (Carbon Tetra Chloride) oliuene ans-1,3-Dichloroptenene ans-1,3-Dichloroptenene ribromomethane richloroptenene ribromomethane richlorofluoromethane richlorofluoromethane syoCs 3-Dichlorobenzene 4,5-Trichlorophenol 4,6-Trichlorophenol 4-Dichlorophenol 4-Dichlorophenol 4-Dintrotoluene 6-Dintrotoluene 6-Dintrotoluene 6-Dintrotoluene 6-Dintrophenol 4-Dintrotoluene 6-Dintrophenol 6-Dintrotoluene 6-Dintrophenol 6-Dintrophenol 6-Dintrotoluene 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 7-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol 6-Dintrophenol	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	50 10 12 50 10 10 20	100	 d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e	41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 40 5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5	41 41 41 41 41 41 41 41 41 41 41 41 41 4	41 41 41 41 41 41 41 41 41 41 41 41 41 4	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <
tyrene tr-Butylbenzene etrachiororethene etrachiororethene etrachiororethene ans-1,3-Dichlororethene ans-1,3-Dichlororptene ans-1,3-Dichlororptene ribromeethane richlororethene richlorofluoromethane richlorofluoromethane syoCs 3-Dichlorobenzene 4,3-Trichlorophenol 4,6-Trichlorophenol 4,0-Dichlorophenol 4-Dichlorophenol 5-Dimitrotoluene 6-Dinitrotoluene 6-Dinitrotoluene 6-Dinitrotoluene 6-Diorophenol Methyl-4,6-Dinitrophenol Methyl-4,6-Dinitrophenol Methyl-4,6-Dinitrophenol Methyl-4,6-Dinitrophenol Methyl-4,6-Dinitrophenol Methyl-4,6-Dinitrophenol Methyl-4,6-Dinitrophenol Methyl-4,6-Dinitrophenol Methyl-4,6-Dinitrophenol Methyl-4,6-Dinitrophenol Methyl-4,6-Dinitrophenol Methyl-4,6-Dinitrophenol Methyl-4,6-Dinitrophenol	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	50 10 12 50 10 10 20	100	 c1 c1 c1 c1 c1 c1 c1 c1 c1 c1 c1 c1 c1 c1 c1 c2 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 c0.5 	41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 40 50 50 50 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60<	d1 d1 d1 d1 d1 d1 d1 d1 d1 d1 d1 d1 d1 d1 d2 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5	41 41 41 41 41 41 41 41 41 41 41 41 41 4	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <
tyrene tr-Butylbenzene etra-Chiororethene etra-Chiororethene etra-Chiororethene ans-1,3-Dichlororethene ans-1,3-Dichlororethene ans-1,3-Dichloropropene ribromomethane richlororethene richlorofluoromethane richlorofluoromethane richlorothene richlorophenol 4,5-Trichlorophenol 4,5-Trichlorophenol 4-Dichlorophenol 4-Dichlorophenol 4-Dichlorophenol 4-Dichlorophenol 4-Dinitrotoluene 6-Dinitrotoluene 6-Dinitrotoluene 6-Dinitrophenol Metthyl-4,6-Dinitrophenol Metthyl-4,6-Dinitrophenol Metthyl-4,6-Dinitrophenol Metthyl-4,6-Dinitrophenol Metthyl-4,6-Dinitrophenol Metthyl-4,6-Dinitrophenol Metthyl-4,6-Dinitrophenol Metthyl-4,6-Dinitrophenol Metthyl-4,6-Dinitrophenol Metthyl-4,6-Dinitrophenol Metthyl-4,6-Dinitrophenol	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	50 10 12 50 10 10 20 20	100	41 41 41 41 41 41 41 41 41 41 41 41 41 4	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	d1 d1 d1 d1 d1 d1 d1 d1 d1 d1 d1 d1 d1 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5 d0.5	d1 d1 d1 d1 d1 d1 d1 d1	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <
tyrene tr-Butylbenzene etra-Butylbenzene etra-Butylbenzene etra-Glororethene etra-Glororethene ans-1,2-Dichloroethene ans-1,3-Dichloropenpene ribronomeethane richlorofbuoromethane richlorofbuoromethane richlorofbuoromethane syOCS 3-Dichloropenene 4,5-Trichlorophenol 4,5-Trichlorophenol 4-Dichlorophenol 4-Dichlorophenol 4-Dichlorophenol 4-Dintrotoluene 6-Dintrotoluene 6-Dintrotoluene 6-Dintrotoluene 6-Dintrotoluene 6-Methyla-Glorophenol Methyl-4-G-Dintrophenol Methyl-4-G-Dintrophenol Methyl-4-G-Dintrophenol Methyl-4-G-Dintrophenol Methyl-4-G-Dintrophenol Methyl-4-G-Dintrophenol Methyl-4-G-Dintrophenol Methyl-4-G-Dintrophenol Methyl-4-G-Dintrophenol Methyl-4-G-Dintrophenol Methyl-4-G-Dintrophenol Methyl-4-G-Dintrophenol Methyl-4-G-Dintrophenol Methyl-4-G-Dintrophenol Methyl-4-G-Dintrophenol	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	50 10 12 50 10 10 20 20	100	41 41 41 41 41 41 41 41 41 41 41 41 50.5 50.5 50.5 60.5 60.5 60.5 60.5 60.5	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	41 41 41 41 41 41 41 41 41 41 41 41 41 4	41 41 41 41 41 41 41 41 41 41 41 41 40 5 40.5 40.5 40.5 40.5 40.5 40.5 40.5	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <
tyrene ert-Butylbenzene etrachioroethene etrachioroethene etrachioroethene etrachioromethane (Carbon Tetra Chloride) oliuene ans-1,3-Dichloropthene ans-1,3-Dichloropthene ribromomethane richloroethene richlorofluoromethane richlorofluoromethane sylvica (Salvichloropthene) (A,5-Trichlorophenol (A,6-Trichlorophenol (A,6-Trichlorophenol (A-Dichlorophenol (A-Dichlorophenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dinttrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A-Dintrylbenol (A	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	50 10 12 50 10 10 20 20	100	41 41 41 41 41 41 41 41 41 41 41 40 5 40.5 40.5 40.5 40.5 40.5 40.5 40.5	41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 405 406 406 407 407 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 40	41 41 41 41 41 41 41 41 41 41 41 41 41 4	41 41 41 41 41 41 41 41 41 41 41 41 41 4	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <
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sec-Butylbenzene Sykrene Fert-Butylbenzene Fert-Abriybenzene Fertachloroethene Fertachloroethene Fertachloroethene Fertachloroethene Fertachloroethene Fertachloroethene Frans-1,2-Dichloropropene Fritchloroethene Frichloroethene Frichloroethene Frichloroethene Frichloroethene Frichlorophenol A-B-Dirchlorophenol A-B-Dirchlorophenol A-B-Dirchlorophenol A-B-Dirchlorophenol A-B-Dirchlorophenol A-B-Dirchlorophenol A-B-Dirchlorophenol A-B-Dirchlorophenol B-B-Dirchlorophenol A-B-Dirchlorophenol B-B-Dirchlorophenol B-B-Dirchlorophenol B-B-Dirchlorophenol B-B-Dirchlorophenol B-B-Dirchlorophenol B-B-Dirchlorophenol B-B-Dirchlorophenol B-Rottinghithalene B-Chlorophenol B-Mettylphenol B-Mettylphenol B-Mettylphenol B-Witroaniline B-Witroaniline B-Bromophenyl Phenyl Ether B-Bromophenyl Phenyl Ether B-Horophenol B-Bromophenyl Phenyl Ether B-Horophenol B-Bromophenyl Phenyl Ether B-Horophenol B-Bromophenyl Phenyl Ether B-Horophenol B-Bromophenyl Phenyl Ether B-Horophenol B-Bromophenyl Phenyl Ether B-Horophenol B-Bromophenyl Phenyl Ether B-Horophenol B-Bromophenyl Phenyl Ether B-Horophylphenol B-Bromophenyl Phenyl Ether B-Horophylphenol B-Bromophenyl Phenyl Ether B-Horophylphenol B-Bromophenyl Phenyl Ether B-Horophylphenol B-Bromophenyl Phenyl Ether B-Horophylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylphenol B-Bromophenylpheno	ug/1 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1	50 10 12 50 10 10 20 20 50 100 100 100 100 100 100 100 100 100	100	41 41 41 41 41 41 41 41 41 41 41 41 41 4	41 41 41 41 41 41 41 41 41 41 41 41 41 4	41 41 41 41 41 41 41 41 41 41 41 41 41 4	d1 d1 d1 d1 d1 d1 d1 d1	d1 d1 d1 d1 d1 d1 d1 d1

Screening Values & Assessment

EGS Environmental Quality Standards

DWS Drinking Water Standard

Exceeds EGS

X Exceeds DWS

X Laboratory detection level higher than screening criterion

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	No. Data Exceeding EQS	No. Data Exceeding DWS
5	1 2	1.2 26	1.2	BH544 @ 8.48mbGL BH544 @ 8.48mbGL	0	0
5 5	0 3 0	None > LOD 9 None > LOD	None > LOD 9 None > LOD	BH544 @ 8.35mbGL	0	0 0
5 5 5	0 0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0 0 0	0 0 0
2 5	0	None > LOD 1.3	None > LOD 1.3	BH544 @ 8.48mbGL		0
5	5	370	250	CL32-09 @ 8.14mbGL BH544 @ 8.35mbGL	0	
2 5 2	2 5 2	1060 210 29	123	BH544 @ 8.53mbGL BH544 @ 8.35mbGL BH544 @ 8.53mbGL	0	0 0
5 3 3	2 0 0	0.012 None > LOD None > LOD	0.011 None > LOD None > LOD	BH544 @ 8.35mbGL	0	0
2	1 2	0.09 4.5	None > Lob	CL32-09 @ 8.14mbGL CL32-09 @ 8.14mbGL		0
5	5	7.7 8.4	7.5	CL32-09 @ 8.14mbGL BH544 @ 8.37mbGL	0	0
3	0	None > LOD None > LOD	None > LOD None > LOD		0	
5	0	None > LOD None > LOD	None > LOD None > LOD		0	0
5 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0 0	
2 2	0	None > LOD None > LOD	None > LOD None > LOD			0
2 2 2	0 0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			0 0
5 5	0	None > LOD None > LOD	None > LOD None > LOD			v
5 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			
5 5 3	0 1 0	None > LOD 0.076 None > LOD	None > LOD 0 None > LOD	CL32-09 @ 8.14mbGL		
5 5 5	0 0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			
5 5	0	None > LOD None > LOD	None > LOD None > LOD			
5 5	0 1 0	None > LOD 0.024 None > LOD	None > LOD 0 None > LOD	CL32-09 @ 8.14mbGL		
5 5 3	1 1 0	0.088 0.029 None > LOD	0 0 None > LOD	CL32-09 @ 8.14mbGL CL32-09 @ 8.14mbGL		
5	0	None > LOD None > LOD	None > LOD None > LOD			
5 5	0	None > LOD None > LOD	None > LOD None > LOD		0	
5 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0 0	0 0
5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	0
5 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	0
5	0 0 1	None > LOD None > LOD 0.013	None > LOD None > LOD 0	CL32-09 @ 8.14mbGL	0	
5	0	None > LOD	None > LOD	CE32-03 @ 8.14110GE		
5 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
5 5 5	0 0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			
5 5 5	0 0 0	None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
5	0	None > LOD None > LOD	None > LOD None > LOD			
5 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	0
5 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			
5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
5 5 5	0 0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	0
5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			0
5 5	0	None > LOD None > LOD	None > LOD None > LOD			
5 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	0
5 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			0
5 5 5	0 0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
5 5 5	0 0 0	None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
5 5	0	None > LOD None > LOD None > LOD	None > LOD None > LOD			
5 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
5 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	0
5 5 5	0 0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	0
5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	0
5	0	None > LOD	None > LOD			Ĭ
5 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
5 5 5	0 0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
5 5 5	0 0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
5 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
5 5	0 0	None > LOD None > LOD	None > LOD None > LOD		,	
5 5	0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
5 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
5 5 5	0 0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			
5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
5 5	0	None > LOD None > LOD	None > LOD None > LOD		0	
5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
5 5 5	0 0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0 0	
5 5 5	0 0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			
5 5	0 0	None > LOD None > LOD	None > LOD None > LOD			
5	0	None > LOD None > LOD	None > LOD		0	

Appendix 5

Soil Leachate Laboratory Data

M4CAN Leachate Analysis Results & Screening Assessment CL-32 08/07/2015

Geological Formation Legend

Geologicai For	mation Legena
MG	Made Ground
В	Bedrock

					1			
Sample Reference		Screenin	g Values	STPN01	STPN02	SWSN02	CH55	SWSN01
Specimen Depth (mbGL)				0.4	0.5	1.2	0	0.3
Level				19.6	26.39	25.71	21.45	19.62
Sample Type	Units	EQS	MRV	ES	ES	L	D	ES
Geology Code		EQ3	IVINV	HD	HD	В	MG	MG
Cluster Code				2007 GI	2007 GI	2007 GI	2000 GI	2007 GI
2:1 Results								
Arsenic Dissolved	ug/l	50	10	22	3	1		<1
Boron Dissolved	ug/l	2000	1000	40	160			
Barium Dissolved	ug/l			27	22	290		36
Beryllium Dissolved	ug/l							<1
Cadmium Dissolved	ug/l	0.15	5	<0.4	<0.4	<0.5		<0.5
Chromium Dissolved	ug/l		50	23	15	22		1
Copper Dissolved	ug/l	10	2000	<1	8	16		2.9
Iron Dissolved	ug/l	1000	200					70
Mercury Dissolved	ug/l	0.07	1			0.02		<0.01
Molybdenum Dissolved	ug/l			4	41	5		<1
Nickel Dissolved	ug/l	4	20	10	2	8.3		<1.5
Lead Dissolved	ug/l	1.2	10	3	<1	2.2		2.8
Antimony Dissolved	ug/l		5	<5	<5	3		<1
Selenium Dissolved	ug/l		10	<1	<1	2		<1
Vanadium Dissolved	ug/l							4
Zinc Dissolved	ug/l	75		<3	<3	<5		<5
Total Cyanide	mg/l	0.001	0.05	<0.05	0.61	<0.05		<0.05
рН	pH units	6-9	6.5-10				9.8	
TPH FTIR	mg/l		_				0.8	
TPH GC	mg/l						IS	

Screening Values & Assessment

EQS	Environmental Quality Standards
DWS	Drinking Water Standard
	Exceeds EQS
X	Exceeds DWS
v	Laboratory detection level higher than screening criterion

EQS calcium carbonate 100 - 150mg/l for heavy metals: chromium, copper, lead, nickel and zinc

No.	No. Analyses	Maximum	Minimum	Location & Depth of	No. Data	No. Data
Analyses	Above LOD			Maximum Concentration	Exceeding EQS	Exceeding DWS
4	3	22	1	STPN01 @ 0.4mbGL	0	1
2	2	160	40	STPN02 @ 0.5mbGL	0	0
5	4	290	22	SWSN02 @ 1.2mbGL		
5	0	None > LOD	None > LOD			
4	0	None > LOD	None > LOD		0	0
4	4	23	1	STPN01 @ 0.4mbGL		0
4	3	16	2.9	SWSN02 @ 1.2mbGL	1	0
1	1	70	70	SWSN01 @ 0.3mbGL	0	0
2	1	0.02	0.02	SWSN02 @ 1.2mbGL	0	0
4	3	41	4	STPN02 @ 0.5mbGL		
4	3	10	2	STPN01 @ 0.4mbGL	2	0
4	3	3	2.2	STPN01 @ 0.4mbGL	3	0
4	1	3	3	SWSN02 @ 1.2mbGL		0
4	1	2	2	SWSN02 @ 1.2mbGL		0
4	1	4	4	SWSN01 @ 0.3mbGL		
4	0	None > LOD	None > LOD		0	
4	1	0.61	0.61	STPN02 @ 0.5mbGL	1	1
1	1	9.8	9.8	CH55 @ 0mbGL	1	0
1	1	0.8	0.8	CH55 @ 0mbGL		
1	0	None > LOD	None > LOD			

Appendix 6

Relevant Extracts of Additional Environmental Data



Plate 01: Extract of 2006 Aerial Photograph

Plate 02:

Client: Welsh Government

Project: M4CaN

Job Ref: JER6591 Checked By: Date: Oct 2015

Welsh Government

M4 Corridor around Newport

Land Contamination Assessment Report Annex D CL-33 B4245 Quarry

M4CaN-DJV-EGT-ZG_GEN-RP-EN-0022

At Issue | March 2016

CVJV/AAR 3rd Floor Longross Court, 47 Newport Road, Cardiff CF24 0AD

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1 Introduction

1.1 Background

- **1.1.1** This report relates to an area of land potentially affected by contamination (CL-33) known as the "B4245 Quarry" hereinafter referred to as the Site.
- 1.1.2 The Site is located between chainage 20,800 and 20,900, upon a partially backfilled quarry, within the grounds of a former vicarage (See Figure 1).

1.2 Reporting Context

- 1.2.1 The Site has been assessed as part of ground investigations and monitoring associated with the wider works for the M4 Corridor around Newport (M4CaN) (hereafter referred to as the "Scheme") and informs the baseline for the environmental impact assessment (EIA) for the Scheme. The EIA for Scheme. The EIA is reported in the M4CaN Environmental Statement (ES) of which this document is an appendix to the Chapter on Geology and Soils (Chapter 11).
- 1.2.2 In 2014, a Preliminary Sources Study Report (PSSR 2014) was prepared as an initial land contamination appraisal (Ove Arup & Partners, 2014) as part of Design Manual for Roads and Bridges (DMRB) Stage 2 Assessments for a number of potential route options. This identified a number of individual areas that may have been affected by contamination as a result of historical activities at the site. In addition, this report draws upon the 2015 Supplementary Ground Investigation report on behalf of the Welsh Government (Geotechnical Engineering, 2015). This report relates to the area defined on the Site Location Plan Figure 1.
- 1.2.3 The overarching rationale and approach for the assessment of areas of land along the proposed new section of motorway with potential contamination is detailed in the Land Contamination Assessment Report (Appendix 11.1 of the ES).

1.3 Objectives

- **1.3.1** The key objectives of this report are set out below.
 - Undertake a risk assessment of the Site and determine whether potential risks to human health or controlled waters could exist based upon the Scheme.
 - Identify the need for further assessment and investigation in order to refine potential land contamination risks and inform the need for remediation/mitigation.
 - To provide information to support the Ground Investigation Report (GIR) and Geotechnical Design Report (GDR) required under DMRB HD22/08 (Highways Agency, 2008).

1.4 Report Structure

1.4.1 The subsequent report structure is as follows.

- Section 2: Site Location and Description.
- Section 3: The Scheme This section details the new section of motorway alignment and associated features at the Site.
- Section 4: Site History This section summarises the history of the Site based on historical maps and historical land photographs.
- Section 5: Environmental Setting This section summarises the Site description, published geology, hydrology and hydrogeology and any relevant environmental information presented in the 2014 PSSR.
- Section 6: Scope of Ground Investigations Work This section describes the previous and supplementary ground investigation data available for the Site.
- Section 7: Ground Conditions

 This section describes the main findings of the
 intrusive site investigation including the ground conditions encountered and
 visual or olfactory evidence of contamination identified.
- Section 8: Contamination Assessment This section describes the findings of the Tier 1 and Tier 2 contamination risk assessment based upon potential contamination sources, potential receptors and potential contaminant linkages and presents the human health and controlled waters assessments.
- Section 9: Refined Conceptual Site Model This section presents the Conceptual Site Model (CSM) for the Site and identifies potential contaminant linkages, based upon the findings of the data presented within Sections 2 to 7.
- Section 10: Conclusions and Recommendations This section provides conclusions concerning the likelihood of land contamination associated with the Site affecting the Scheme and requirements for remediation/mitigation.

2 Site Location and Description

- 2.1.1 The Site is located in the eastern part of the study area approximately 500 m north west of Magor town centre and approximately 300 m south of the existing M4 Junction 23A. The Site is centred at National Grid Reference ST 420 876 and covers an area of approximately 0.35 hectares (ha). The location of the Site is shown on Figure 1.
- 2.1.2 The Site comprises a partially backfilled quarry within the grounds of a vicarage, Woodland House, and is surrounded by agricultural fields to the north, residential development to the east and bounded by the B4245 to the south.
- 2.1.3 Previous walkover surveys undertaken in September 1995, January 2014 and more recently in June 2015 found the quarry to be overgrown with trees and rough vegetation. The uneven and undulating topography indicates partial backfilling with a quarry face existing on the north eastern boundary. Details of the infill could not been defined by the walkover surveys. Photographs taken during the 2015 walkover survey are presented in Appendix 6.
- **2.1.4** Ground elevations within the Site range between approximately 17.5 m Above Ordnance Datum (AOD) and 21.0 m AOD.
- **2.1.5** The Site layout is shown in Figure 1.

3 The Scheme

- 3.1.1 The Site is located on the alignment of the new section of motorway at the Magor Junction, at chainage 20,800 to 20,900. Refer to Figure 1 for the Site location in relation to the Scheme.
- **3.1.2** The proposed alignment of the new section of motorway is positioned within a shallow cut at the Site location (depth currently not confirmed).
- 3.1.3 The depth of cut is anticipated to be up to 5 m and some, if not all, of the quarry in-fill material may be removed from its current location and either disposed of off site or, if suitable, reused within the Scheme. Any remaining in-fill materials below cutting level may be left *in situ*.
- 3.1.4 A new 5 m high embankment associated with the overbridge of the B4245 is to be constructed over part of the Site footprint. Here, infill material may be left *in situ* beneath the new embankment.

4 Site History

- 4.1.1 The 2014 PSSR historical searches have been based on Ordnance Survey (OS) plans, literature reviews, information provided by British Steel, Natural Resources Wales (NRW) (formerly Environment Agency Wales), Newport City Council and interpretation of aerial photography.
- **4.1.2** This is supplemented by a review of historical maps obtained in 2015 from Welsh Government. Relevant extracts are presented in Appendix 7.
- **4.1.3** A summary of the Sites history is presented in Table 1 below.

Table 1: Site History

Date	Use	Source of
10.10		Information
		1:10,560 Historical
		Mapping
	Adjacent to the east is a Vicarage and the Site is bound to the	
	south by a road running northwest-southeast. Agricultural fields surround the Site to the north, west and south. Two other old	
1882	quarries are located approximately 125 m to the southeast. No significant change.	OC man (2014
1002	No significant change.	OS map (2014 PSSR
1901 1012	A few residential properties are located to the east.	1:10,560 Historical
1091 - 1912		Mapping
1004 - 1030	No significant change.	1:10.560 Historical
1304 1333		Mapping
1964 – 1965	Residential development to the east has increased.	1:10,560 Historical
		Mapping
1969		Aerial Photography
	to be broken ground .	, .cacg. ap
1969 - 1971		1:10,560 Historical
		Mapping
	The town of Magor is spreading to the east. An industrial building	
	depot has been developed approximately 50 m to the south.	
	The M4 motorway and Junction 23A have been constructed	
	approximately 125 m to the north.	
1981	Site area marked as cutting.	1:2,500 Historical
		Mapping
	Area of broken ground appears vegetated.	Aerial Photography
1985 - 1996	The north of the Site is marked as wooded.	1 : 10,000 Historical
	Magor is now 100 m to the east and a brewery has been	Mapping
	constructed 200 m to the west. A police station is located 50m to	
	the west.	
2006	, , , , , , , , , , , , , , , , , , , ,	Aerial Photography
	evident.	
		Aerial Photography
		Aerial Photography
2015	The quarry has been partially backfilled with fill of unknown origin	Site walkover
	and is heavily overgrown with mature vegetation.	within the temperary

*Notes. Potential sources of contamination are underlined. Those within the temporary and permanent land take are shown in bold.

4.1.4 The sources of information presented above supplement those used in the 2014 PSSR, in particular broken ground identified in aerial photographs from 1969 - 1981. Relevant extract of the photographs are presented in Appendix 6.

- **4.1.5** The review of historical plans indicated that the Site has been occupied by a disused quarry and a limekiln that were active prior to the 1880s.
- **4.1.6** The historical evidence suggests no change of land use post-quarry closure; the Site has remained derelict.
- 4.1.7 Historically the site is located in proximity to areas which may have been bombed during World War II which is discussed in the Explosive Ordnance Threat Assessment Report (Bactec, 2014). This categorises the site as low risk in respect to unexploded ordnance.

5 Environmental Setting

5.1 Geology

5.1.1 British Geological Survey (BGS) data indicates that superficial deposits are only present to the north of the Site, comprising River Terrace Deposits. The entire Site is underlain by bedrock of the Avon Group Carboniferous Limestones.

5.2 Hydrology

- **5.2.1** There are no surface water features within the Site boundary or in the near vicinity.
- **5.2.2** The nearest surface water body is St Brides Brook, located 560 m to the east, which flows in a north-south direction.

5.3 Hydrogeology

- **5.3.1** NRW classifies the adjacent River Terrace Deposits as a Secondary A Aquifer and the bedrock as a Principal Aquifer.
- 5.3.2 The Site does not lie within a groundwater source protection zone. However it lies within a groundwater vulnerability zone classified as a major aquifer, with intermediate leaching potential.

5.4 Environmental Information

- 5.4.1 NRW have no records of pollution incidents, sewage discharge, abstraction licences, landfills or waste management facilities within the Site area.
- A record of one pollution incident is however shown within a 300 m radius of the Site. It had no impact on either land or water and the pollutant was not identified.
- 5.4.3 A discharge consent is marked some 130 m to the west of the Site. This discharge outlet is likely to be associated with the Magor Services and located on the St Bride's Brook, some 560 m to the east.
- 5.4.4 The Gwent Levels Redwick & Llandevenny SSSI is located approximately 700 m to the south.
- 5.4.5 The presence of any residual contamination at the Site associated with the off site pollution incident is considered highly unlikely.

6 Scope of Investigations

6.1 General

6.1.1 One previous intrusive ground investigation has been undertaken within the Site. The information is summarised below.

6.2 Scope of Works

6.2.1 The intrusive ground investigation undertaken within the Site area is summarised in Table 2:

Table 2: Site Investigation Summary

Date	Contractor	Site Location	Boreholes	Window Sampler	Trial Pits	Sampling
2008	Norwest Holst	Northwest and southeast	-	-	STPN03, STPN04	Soil, leachate

6.2.2 No boreholes were excavated or installed onsite. However, a number of holes were advanced within 65 m of the Site. These have been considered in order to support understanding of ground conditions beneath the Site and the groundwater quality and gas regime if relevant.

Table 3: Investigation Summary (Off Site)

Date	Contractor	Location from Site	Boreholes	Sampling
2008	Norwest Holst	10 m south	SBHN01RC	Groundwater level
2015	Geotechnical Engineering	7m southeast	BH545	Groundwater level,
		65m southeast	BH549	sampling Soil gas

6.2.3 The construction details of the above off site boreholes are summarised in Table 4 below.

Table 4: Summary of Off Site Borehole Construction Details

Borehole ID	Diameter (mm)	Total Drilled Depth (m)	Top of Slotted Well Casing / Gravel Pack (mbGL)	Base of Slotted Well Casing / Gravel Pack (mbGL)	Targeted Geology
SBHN01ARC	19 mm	15	14.4	15	Avon Group (Siltstone / Mudstone)
BH545	50 mm	13.0	3	13	Avon Group (Sandstone / Mudstone)
BH549	35 mm	12	2	4	Avon Group (Sandstone)
	50 mm		8	12	Avon Group (Mudstone)

6.3 Surface Water Quality Sampling

6.3.1 Surface water quality monitoring was not undertaken during the previous ground investigations of the site.

6.4 Field Testing

6.4.1 PID (Photo Ionisation Detector) monitoring for VOCs was undertaken on two soil samples on Site at 0.3 m and 1 m in STPN03 and STPN04 respectively.

6.5 Groundwater Monitoring

6.5.1 A summary of the groundwater sampling, groundwater / monitoring and ground gas monitoring rounds undertaken at the off site boreholes are summarised in Table 5.

Table 5: Summary of Monitoring Rounds (off Site)

Location Ref.	Number of rounds (date of sampling)	Monitoring details
SBHN01ARC	6 no.	Groundwater - level
BH545	4 no. (17 th April 2015, 24 th April 2015, 1 st May 2015, 11 th May 2015)	Groundwater - level and sampling
	• ,	Soil Gas
BH549 (35mm)	No data	
BH549 (50mm)	4 no. (17 th April 2015, 24 th April 2015, 1 st May 2015, 11 th May 2015)	Groundwater – level and sampling Soil Gas

6.6 Laboratory Chemical Testing

A summary of the laboratory analysis undertaken on soil, groundwater, leachate and surface water, onsite and off site is shown below. The results are presented in Appendix 5.

Table 6: Summary of previous investigation sampling (onsite)

Site Investigation date	No. of soil samples	No. of leachate samples	No. of water samples	Suites of testing
2008	4	2	-	Heavy metals, pH, sulphate, asbestos, cyanide, phenol, MTBE, BTEX, speciated PAH, PCBs
2015	-	-		Metals, inorganics, phenols, BTEX, TPH, PAH, VOCs, SVOCs, PCBs

Notes. *off site boreholes only

6.7 Gap Analysis of Available Data

- 6.7.1 The investigation data available for the site is considered limited both in relation to site coverage and in the laboratory analysis.
- It is also noted that the intrusive investigation only refers to two shallow hand dug trial pits dated 2008.

7 Ground Conditions

7.1 Geology

7.1.1 The geological logs for all available exploratory logs excavated on or in close proximity to the Site are provided in Appendix 1. The observed geological sequence is consistent with that discussed in the 2014 PSSR report and is summarised in the following sections. Information from the Supplementary Ground Investigation (Geotechnical Engineering, 2015) has also been used.

Topsoil

7.1.2 Topsoil was encountered in both exploratory holes located on site (STPN03 and STPN04) locations to 0.3 m bGL.

Made Ground

- 7.1.3 Made Ground was encountered beneath the topsoil in both locations (STPN03 and STPN04). It comprised a clay silt with gravel and occasional cobbles of limestone and brick as summarised in Table 7. Basal depth of the Made Ground has not been proven.
- 7.1.4 It is noted that some of the selected off site boreholes identified Made Ground material, e.g. to 0.8 m bGL in SBHN01 and 1.65 m in BH545 located south of the Site. It is currently unclear if this material is associated with the partial infill of the Quarry Site.

Bedrock

7.1.5 Off site boreholes have encountered sandstones, mudstones and limestones of the Avon group formation at shallow depths of between 2.1 and 2.35 m bGL.

Geological Sequence Summary

7.1.6 The general geological sequence identified during the previous ground investigations is summarised in Table 7.

Table 7: Summary of Geological Sequence

Unit	Description	Thickness Range (m)	Basal depth (m bGL)
Topsoil	Clayey topsoil.	0.3	0.3
Made Ground	Slightly sandy, slightly gravelly silt / clay with low cobble content. Gravel/cobbles of limestone and brick.	>1.0 - >1.2	unproven

7.1.7 The conceptual ground model included within the 2014 PSSR report has been revised in light of the 2015 information and is presented within Figure 2.

7.2 Visual and Olfactory Evidence of Contamination

7.2.1 A summary of visual and olfactory evidence of contamination encountered during the previous ground investigation is summarised in Table 8.

Table 8: Visual and Olfactory Evidence of Potential Contamination Summary

Location ID	Depth (m bGL)	Strata	Evidence of Potential Contamination
STPN03 and 04	0.3 - 1 / 1.2	Made Ground	Brick cobbles and gravels
East of the quarry	Surface	Black bound macadam	Visual observation during the 2008 ground investigation works

- **7.2.2** No visual or olfactory evidence of hydrocarbon contamination was identified during the trial pitting. The PID meter recorded zero VOC levels.
- **7.2.3** Full details and observations noted during the trial pitting are presented on the exploratory logs attached in Appendix 1.

7.3 Gas Monitoring (off site)

7.3.1 The gas monitoring dataset collected during each of the previous three monitoring rounds at the off site boreholes is summarised on the field data sheets provided in Appendix 2. The maximum gas concentrations are presented in Table 9.

Table 9: Summary of Gas Monitoring Data (off site)

Location ID	Flow (I/hr) Max	VOCs (ppm) Max	CH₄ (%/vol) Max	Peak LEL (%) Max	CO ₂ (%/vol) Max	O ₂ (%/vol) Min	CO (ppm) Max	H ₂ S (ppm) Max
BH545	0.0	6.3	0.1	1	2.9	17.0	0.0	0.0
BH549 (50 mm)	0.4	9.2	0.1	1	1.3	18.0	3	0.0

7.4 Groundwater

Groundwater Encountered During Investigation

7.4.1 No groundwater was encountered during the excavation of the trial pits onsite, nor the boreholes off site.

Groundwater Level Dataset (off site)

7.4.2 The groundwater level dataset gathered from the selected boreholes off site is provided in Appendix 2 and summarised in Table 10.

Table 10: Summary of Groundwater Level During Monitoring Rounds

Location	Installation ^{#1}	Depth of response zone (m bGL) and Geological Formation	No. Measure- ments	Minimum Depth (m bGL)	Maximum Depth (m bGL)	Comment s
SBHN01 RC	19 mm	14.4-15 (Avon Group – Siltstone & Mudstone)	6	8.49	13.27	
BH540	(S) 35 mm	2 - 4 (Avon Group - Sandstone)	0			No data
BH549	(D) 50 mm	8 - 12 (Avon Group - Mudstone)	4	7.68	9.12	
BH545	50 mm	3-13 m (Avon Group - Sandstone & Mudstone)	4	6.35	7.82	

Notes. #1: S denotes a shallow installation and D denotes deep installation.

Groundwater Summary

- **7.4.3** Notable groundwater beneath the Site is present within the sandstone and mudstone lithology of the Avon Group Bedrock.
- 7.4.4 Ground levels at each of the above borehole locations are similar. The maximum resting groundwater as recorded in the 2008 borehole (SBHN01) is much deeper than other recorded levels. The reason for this is uncertain.
- **7.4.5** The 2015 data indicates the groundwater level in BH549 to be deeper than those seen in borehole BH545 which is likely to be a reflection of the general south eastwards flow.

8 Contamination Assessment

8.1 Introduction

- **8.1.1** The following sections provide details of the assessment of land contamination at the Site.
- 8.1.2 The outline Conceptual Site Model (CSM) presented within the 2014 PSSR has been reviewed and updated based on data from the Supplementary Ground Investigation (Geotechnical Engineering, 2015) and the Scheme. The main alterations to the 2014 PSSR model are summarised as follows.
 - Addition of an embankment on Site as well as the proposed cutting.
 - Addition of ground, groundwater and gas dataset from nearby boreholes.
 - Revision of the source/pathway/receptor linkages.

8.2 Preliminary Risk Assessments

Potential Sources

- 8.2.1 The backfill of the quarry on the Site has been identified as the only potential source of contamination existing at the Site. The majority of the fill materials are likely to be removed as a result of the Scheme; however some may remain beneath the road or exposed as part of the cutting and could pose a risk to human health and underlying groundwater.
- The investigations undertaken to date do not fully characterise the in-filled quarry and therefore the risks remain unconfirmed.

Potential Receptors

8.2.3 Receptors during the construction and the operational stages of the Scheme have been considered:

Construction

- Construction workers during Site development works.
- General public adjacent to construction works including residents located 150 m away from the Site.
- Groundwater (principal aquifer), excavations are unlikely to extend below groundwater level however any ground improvement works undertaken on the residual materials (if left in place) may affect the groundwater quality.

Operational

- General public end users;
- General public adjacent to permanent land take including residents located 150 m away from the Site.
- Maintenance workers.
- Groundwater (principal aquifer) within the bedrock.

Potential Pathways

- **8.2.4** Pathways during the construction and the operational stages of the Scheme have been considered:
 - Dermal contact, ingestion, inhalation pathways of potentially contaminated soils possible during development works and maintenance works.
 - Dermal contact, ingestion, inhalation pathways possible for general public end users and general public including residents located 150 m away from the Site.
 - Leaching of contaminants from the backfill material into underlying groundwater aquifer.
 - Vertical or lateral migration of potential ground gas associated with backfill material.

8.3 Risk Evaluation

- 8.3.1 Source-pathway-receptor linkages were considered in the 2014 PSSR using the historical data available up to 2008. With review of the other data described herein, the following risk evaluation has been reconsidered and included.
 - The Site has been subject to unregulated backfilling of an unknown material, with current data only proven for the top meter.
 - Proposed cut associated with the Scheme will remove a proportion of the infill
 material and that left in situ is likely to be engineered for stability or
 encapsulated by proposed embankment.
 - Superficial Deposits to the north are classified as a Secondary A Aquifer.
 Bedrock directly beneath the Site is classified as a Principal Aquifer.
 - Hardstanding cover proposed in some areas of the new section of motorway is likely to limit infiltration thus reducing leaching.
 - There are no nearby surface water receptors and infill material is confined within a below ground quarry feature. Risks to surface water are not therefore considered further for the purpose of this report.
 - Motorway users will be within an open environment with no proposed structures or other confined spaces.

8.4 Human Health Risk Assessment

- 8.4.1 The rationale and approach for the human health (tier 2) screening assessment is detailed in the Land Contamination Assessment Report (Appendix 11.1 of the ES). Soil chemical analysis results and the findings of the generic Tier 2 human health risk assessment are presented in Appendix 3 of this report. There were no exceedances to the relevant generic risk assessment criteria with the exception of chromium.
- 8.4.2 The total chromium concentrations marginally exceed the screening criteria of 33 mg/kg in 2 samples of the Made Ground. The screening criteria is based upon the more toxic and anthropogenic chromium and thus the criteria is very conservative. Chromium concentrations are considered to be within normal

- background data range (<95 mg/kg) and are not therefore considered to represent a contaminant of concern (Appendix 11.1 of the ES).
- All phenols and BTEX were at levels below the laboratory limit of detection. PAHs and TPH were identified at low levels at both locations (total PAHs ranging from 0.21 to 1.7 mg/kg and total TPH from <0.1 to 17 mg/kg). From the four PCB test results, one was marginally above Limit of Detection (LOD) but remained below screening criteria. These are considered unlikely to pose a risk to human health.
- 8.4.4 No other exceedances of the applied assessment criteria have been identified and no asbestos fibres were detected visually or in samples analysed in the laboratory.

8.5 Controlled Waters Screening Assessment

- 8.5.1 The rationale and approach for the controlled water (Tier 1) screening assessment is detailed in the Land Contamination Assessment Report (Appendix 11.1 of the ES) and the groundwater chemical results are presented in Appendix 4 of this report. All exceedances to the relevant generic criteria are summarised in Table 11 and Table 12 for soil leachate and groundwater, respectively.
- Where an EQS is dependent on water hardness i.e. some heavy metals, the hardness of the surface water receptor should normally be used. The Baseline Water Environment report (Appendix 16.2 of the ES) indicates surface water to be generally moderately hard with hardness concentrations within a range of 100 to 150 mg/l as calcium carbonate. Therefore EQSs within this water hardness range have been used for screening purposes.

Soil Leaching Results

8.5.3 Two soil samples were subjected to leaching analysis the results of which are presented in Appendix 5. The majority of the soil leaching results were all below the applied screening criteria, with the exception of the following contaminants.

Table 11: Controlled Waters screening exceedances – soil leaching

Determinant	Units	Range	EQS	DWS			No. exceeded DWS Screening Criteria (Total number of results)	Location
Lead	μg/l	<1 - 6	1.2	10	1 (4)	STPN03 (Made Ground)	0 (4)	-

Note: DWS - Drinking Water Standards

- 8.5.4 There are no surface water courses identified in the near vicinity, therefore, the identified single occurrence exceedance of the stringent EQS is considered to be minor and unlikely to pose a risk to Controlled Waters.
- **8.5.5** Certain laboratory detection levels in samples used in the previous ground investigation for cadmium and cyanide are higher than screening criteria. This is considered unlikely to pose a risk to controlled waters.

Groundwater Results (off site)

- 8.5.6 In the absence of onsite data and for the purpose of this report, nearby available groundwater analytical data has been considered. This aims to identify the local groundwater quality within the vicinity of the Site in order to identify any obvious contamination fingerprint that could be associated with any potential contamination from the Site itself.
- 8.5.7 The groundwater analysis results include data from three rounds of groundwater monitoring results from off site boreholes BH545 and BH549 undertaken in 2015. The groundwater samples were taken from the aquifer body beneath the Site within the Avon Group bedrock.
- 8.5.8 A summary of the exceedances of the screening criteria from all available results relating to this Site is presented in Table 12 and discussed below.

Determinant	Units	Range	EQS	No. exceeded Screening Criteria (Total number of results) against EQS		Location	No. exceeded Screening Criteria (Total number of results) against DWS	Location	
Aquifer (Avon	Group)								
Mercury	μg/l	<0.5 - 0.55	0.07	1	2 (6)	BH545, BH549	0 (6)	-	
Nickel	µg/l	<1 - 7	4	20	1 (6)	BH545	0 (6)	-	
Chloride	mg/l	190 -	250	250	1 (6)	BH549	1 (6)	BH549	

Table 12: Groundwater screening exceedances (off site)

- 8.5.9 The review of the groundwater chemical testing results indicated that the deep groundwater beneath the Site has elevated levels of mercury, nickel and chloride when compared to Environmental Quality Standards criteria.
- **8.5.10** Against Drinking Water Standards, only chloride is identified in marginal exceedance within the Aquifer.
- **8.5.11** All TPH, PAH, VOCs, SVOCs, BTEX, phenols and PCB results were found below the limit of detection.
- **8.5.12** It is noted the laboratory detection levels for some metals, PAH compounds, VOCs and SVOCs are higher than applied screening criteria. This is considered unlikely to pose a risk to controlled waters.

8.6 Ground Gas Risk Assessment

8.6.1 The only ground gas data available relates to off site boreholes BH545 and BH549. These have a response zone within the Avon Group between depths of 3-13 m bgl and 8-12 m bgl, respectively. No data has been made available from the shallow installation of BH549 (2-4 m bgl). Of the 4 no rounds available, the following may be observed.

- No monitoring was undertaken during low barometric pressure (less than 1000 mb), with the lowest conditions being 1011 mb. As such, the worst case atmospheric conditions for potential ground gas generation may have not been monitored.
- Gas flow was generally recorded absent, with the exception of the May round for BH549 which recorded an initial flow of 0.4 l/hr before returning to 0 l/hr.
- Methane has been recorded as nil or up to 0.1 % during all 4 no. rounds, which is well below the screening criteria of 1 %. The Lower Explosion Limit was recorded of up to 1 %.
- Carbon dioxide is identified between 0.1-2.9 %. The data is below the Work Place exposure limit of 5 %.
- Trace of Volatile Organic Compounds of up to 9.2 ppm has been recorded.
- Hydrogen sulphide was recorded as zero throughout.
- Carbon monoxide was recorded absent on all rounds for BH545. However, in BH549 carbon monoxide was recorded of up to 3 ppm for the first two rounds reducing to zero for the following two. Maximum concentration remains well below the Work Place exposure limit of 30 ppm.
- Oxygen has been recorded to be marginally depleted to ambient with concentrations of 17-20.6 %.
- 8.6.2 The available off-site data does not identify obvious gas sources (trace levels of VOCs are considered to be naturally occurring) and is consistent with the expected gas regime given the ground conditions.
- 8.6.3 However, the gas regime within the backfilled quarry remains unknown and additional investigation is recommended to confirm risks.

8.7 Summary

- **8.7.1** The onsite Made Ground analysed has not identified exceedances and is therefore considered to pose a low risk to human health.
- **8.7.2** Very limited leachability has been identified from the Made Ground with marginal exceedance limited to lead on a single sample.
- 8.7.3 The off site aquifer has been identified to have elevated metals or chloride when compared to the Environment Quality Standards. Chloride is the only contaminant in exceedance of the Drinking Water Standards.
- 8.7.4 The off site groundwater quality status is in general keeping with the baseline quality seen within this area of Newport (Appendix 16.2 of the ES). The current limited information indicates no obvious effect to groundwater from the land use of CL-33.
- **8.7.5** The lack of contaminant linkage between the soil and groundwater data is identified.
- 8.7.6 The ground gas regime at the site is not known. The absence of an abnormal gas regime proven by the nearest off-site boreholes is noted.

9 Refined Conceptual Site Model

- 9.1.1 The incorporation of data from the 2015 Supplementary Ground Investigation has enabled the original CSM presented in the 2014 PSSR to be updated. All relevant contaminant (source-pathway-receptor) linkages are considered within the refined CSM. The assessment is based on the Scheme during its construction and operational phases.
- 9.1.2 A CSM representing general ground conditions, overall Scheme layout and relevant source-pathway-receptors (each of which having a specific alphanumerical symbol attached) is presented in Figure 2 and is described in Table 13.

Table 13: Conceptual Site Model

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
Quarry in-fill materials	Construction	<u>. </u>		<u>. </u>		
	Construction	Direct dermal (1)	Likely	Moderate	Moderate	Construction workers will be exposed to the
	Workers (B)	Ingestion (2)	Likely	Moderate	Moderate	infill materials during Site construction works;
		Inhalation of soil derived dust (3)	Likely	Moderate	Moderate	however exposure duration will be short term only. Use of PPE and good hygiene practice throughout earthworks and construction phase is considered sufficient to mitigate risks presented. Current data set identify limited exceedances to the selected screening criteria. Current contamination status is not foreseen to represent abnormal constraints to construction workers health & safety over and above those typical of a brown field Site. Made Ground generally granular and may represent a possible pathway for vertical and lateral migration. Additional investigation and soil testing required to confirm the characteristic of Made Ground and associated risks. Dust suppression measures are recommended during construction works.
		Inhalation of soil gas or vapour (3)	Likely	Moderate	Moderate	Construction workers may be exposed to ground gas potentially generated by the quarry in-fill materials during the excavation and ground improvement works. No onsite ground gas data. Gas monitoring from nearby off site boreholes indicates presence of low concentrations of VOCs and carbon dioxide. However the data does not present evidence of gas source. Additional investigation and soil testing required to confirm the characteristic of the Made Ground and associated risks.
	Site neighbours/	Dermal contact with	Low	Low	Low	During construction there is the possibility of

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
	general public	soil derived dust (1)				Site neighbours/general public inhaling soil
	during construction	Ingestion of soil	Low	Low	Low	derived dust, short term exposure only.
	works (C)	derived dust (2)				However, considering the distance to the
		Inhalation of soil	Low	Low	Low	receptor (150m) the occurrence of the
		derived dust (3)				exposure is considered to be of low likelihood.
		Inhalation of soil gas	Low	Low	Low	Dust suppression measures are recommended
		or vapour (3)				during construction works.
						Gas monitoring from nearby off site boreholes
						indicates presence of low concentrations of
						VOCs and carbon dioxide. However the data
						does not present evidence of gas source.
						Additional investigation and soil testing
						required to confirm the characteristic of the
						Made Ground and associated risks. Significant
						flux of gas not anticipated.
	Groundwater	Leaching / migration	Likely	Moderate	Moderate-	The elevation of the quarry base in relation to
	(Principal Aquifer)	of contaminants from	Likely	Moderate	Moderate	the water table is unknown and therefore there
	(Da)	backfill materials to				is a risk of the infill materials being infiltrated by
	(Bu)	groundwater (4)				the groundwater during the ground
		groundwater (+)				improvement works and resulting in potential
						contaminants mobilisation and migration to
						groundwater.
						Confirmation of the vertical extent of the infill
						materials in relation to the underlying
						groundwater is required prior to the ground
						improvement works.
						Ground improvement works may create new /
						increase vertical pathways.
						Foundation works risk assessment would be
						required on confirmation of ground
						improvement method.
On Site	Operational			•	·	•

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
Quarry in-fill materials		Direct dermal contact (1)	Low	Low	Low	Made Ground to be largely encapsulated by the embankment (or removed during construction) and therefore the exposure to contamination will be limited outside the motorway embankment. Areas outside the motorway hardstanding are
		Ingestion (3)	Low	Low	Low	likely to receive topsoil cover and vegetation establishment, reducing potential of exposure. In areas of cutting, exposed Made Ground may receive retaining structure for stability improvement. Exposure duration will be short term only. Site specific risk assessment will be required in line with H&S guidance. This will enable safe
		Inhalation of soil derived dust (2)	Low	Low	Low	methodology and appropriate level of PPE to be put in place. As such all risks will be duly considered and suitably mitigated. Additional investigation and soil testing required to confirm the characteristic of the Made Ground and associated risks. Current contamination status is not foreseen to represent abnormal constraints to maintenance workers health & safety over and above those typical of a brown field site.
		Inhalation of soil gas or vapours (2)	Likely	Moderate	Moderate	Maintenance workers may be exposed to ground gas potentially generated by the quarry in-fill materials. No onsite ground gas data. Gas monitoring from nearby off site boreholes indicates presence of low concentrations of VOCs and carbon dioxide. However the data does not present evidence of gas source. Additional investigation and soil testing required to confirm the characteristic of the Made Ground and associated risks.

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
	Future Motorway users (A)	Direct Dermal contact (1)	Unlikely	Low	Very low	Made Ground to be largely encapsulated by the embankment (or removed during construction) and therefore the exposure to contamination will be limited outside the motorway embankment. Dermal and ingestion pathways associated to soil derived dust only.
		Ingestion (2)	Unlikely	Low	Very low	Areas outside the motorway hardstanding are likely to receive topsoil cover and vegetation establishment, reducing potential of exposure. In areas of cutting, exposed Made Ground may receive retaining structure for stability improvement. No onsite ground gas data. Gas monitoring
		Inhalation of soil derived dust (2)	Unlikely	Low	Very low	from nearby off site boreholes indicates presence of low concentrations of VOCs and carbon dioxide, possibly generated by the infill materials. Made Ground to be removed or encapsulated by the proposed embankment (subject to
		Inhalation of soil gas or vapours (2)	Low	Low	Low	passing re-use criteria). End users to be within open space. Additional investigation required to confirm the characteristic of the Made Ground and associated risks.
	Off site users (C)	Direct Dermal contact of soil derived dust (1)		Low	Very low	As per Future Motorway Users (A) but off site receptors some 150 m from proposed
		Ingestion of soil (2)	Unlikely	Low	Very low	earthworks.
		Inhalation of soil derived dust (2)	Unlikely	Low	Very low	
		Inhalation of soil gas or vapours (2)	Unlikely	Low	Very low	

Potential Source Potential Rece	ptor Possible Pathway	Likelihood	Severity	Risk	Comment
Groundwater - Aquifer (Da) froi the Glaciofluvial Deposits and/or Avon Group bedrock	Made Ground	1)Likely	Moderate	Moderate-	The elevation of the quarry base in relation to the water table is unknown and therefore, there is a risk of the infill materials being infiltrated by the groundwater resulting in potential contaminant mobilisation and migration to groundwaterGround improvement works may create new / increase vertical pathways. Confirmation of the vertical extent of the infill materials in relation to the underlying groundwater is required prior to the ground improvement works. Foundation works risk assessment would be required on confirmation of ground improvement method.

10 Conclusions and Recommendations

10.1 Conclusions

- 10.1.1 The proposed earthworks include a shallow cut (depth currently unknown) through the south eastern end of the Site. The construction of an embankment is also considered, running over the Site on an east to west trend and bridging over the cutting section.
- **10.1.2** Limited ground investigations have been undertaken to enable the Site to be assessed for the risks of contamination on the Scheme including human health and controlled waters.
- 10.1.3 The nature and extent of the potential contamination has not been confirmed. However, it is unlikely to pose a risk to the Scheme.
- 10.1.4 In order to confirm the moderate to low risks associated with the Site in relation to both construction and operational phases, and the suitability for reuse within the Scheme, it is recommended that supplementary intrusive investigations are undertaken.
- 10.1.5 The results of the recommended supplementary investigations should be assessed in relation to identified receptors and inform the selection of appropriate health and safety and mitigation measures for the construction works and operational phase, if required.

10.2 Recommendations

- Only limited ground investigation has been undertaken at the site and although the likelihood of any contamination at the site is relatively low, due to the site's history, localised contamination may have occurred. As such it is recommended that a supplementary ground investigation is undertaken to verify the risk levels described in this report. Should contamination be identified that could cause an unacceptable risk to the identified receptors, then remedial requirements would be identified within a remedial strategy for the Scheme.
- 10.2.2 A remediation strategy for the Scheme should be developed that for this Site should include the following.
 - Addressing potential human health and controlled waters risk identified by the proposed additional ground investigation.
 - Monitoring and risk assessment of perched water if identified to be present within the backfilled quarry and if applicable of the aquifer beneath.
 - Dealing with unexpected contamination.
 - Verification sampling strategy to confirm suitability for soils for retention / reuse.
 - Control measures (over and above good practice construction management) to prevent risks to construction workers and the general public during construction.
 - Verification of material used as topsoil.

- **10.2.3** The remediation strategy should include a remediation options appraisal, remediation implementation plan and remediation verification plan.
- The remediation strategy should be supported by a Scheme wide Material Management Plan prepared in accordance with CL:AIRE Code of Practice (CL:AIRE, 2011).

11 References

Bactec (2014) Explosive Ordnance Threat Assessment in respect of M4 Corridor around Newport for Hyder Consulting (UK) Limited, 5750TA

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Environment Agency (2002) Piling into contaminated sites. National Groundwater and Contaminated Land Centre, February 200

Geotechnical Engineering (2015) M4 Corridor Around Newport, Factual Report on Ground Investigation, 30238

Highways Agency (2008) Design Manual for Roads and Bridges. Vol. 4. Geotechnics and Drainage. Section 1. Earthworks; Part 2. HD22/08. Managing Geotechnical Risk.

Ove Arup & Partners (2014) M4 Corridor Around Newport, Preliminary Sources Study Report, 14/9197

12 Glossary

BF Blast Furnace

BGS British Geological Survey

BOD Biochemical Oxygen Demand

BOS Basic Oxygen Slag

BTEX Benzene, Toluene, Ethylbenzene and Xylene

CAT Cable Avoidance Tool

CDM Construction Design Management

CH₄ Methane

CLEA Contaminated Land Exposure Assessment

CO₂ Carbon Dioxide

CO Carbon Monoxide

COD Chemical Oxygen Demand

CSM Conceptual Site Model

DMRB Design Manual for Roads and Bridges

DO Dissolved Oxygen

DQRA Detailed Quantitative Risk Assessment

DWS Drinking Water Standard

EC Electrical Conductivity

EIA Environmental Impact Assessment

ES Environmental Statement

ESG Environmental Scientifics Group

EQS Environmental Quality Standard

FTIR Fourier Transform Infrared (spectroscopy)

GAC Generic Assessment Criteria

GDR Geotechnical Design Report

GIR Ground Investigation Report

GRO Gasoline Range Organics

LEL Lower Explosive Limit

LOD Limit of Detection

mAOD Metres Above Ordnance Datum

mb Millibars

mbGL Metres below Ground Level

MTBE Methyl Tert-butyl Ether

NRW Natural Resources Wales

ORP Oxidation Reduction Potential

O₂ Oxygen

OS Ordnance Survey

PAH Polycyclic Aromatic Hydrocarbon

PCB Polychlorinated Biphenyl

PCSM Preliminary Conceptual Site Model

PID Photo Ionisation Detector

PPE Personnel Protection Equipment

SGVs Soil Guideline Values

SSAC Site Specific Assessment Criteria

SSSI Site of Special Scientific Interest

SVOCs Semi-Volatile Organic Compounds

TOC Total Organic Carbon

TPH Total Petroleum Hydrocarbon

TPH CWG Total Petroleum Hydrocarbon Criteria Working Group

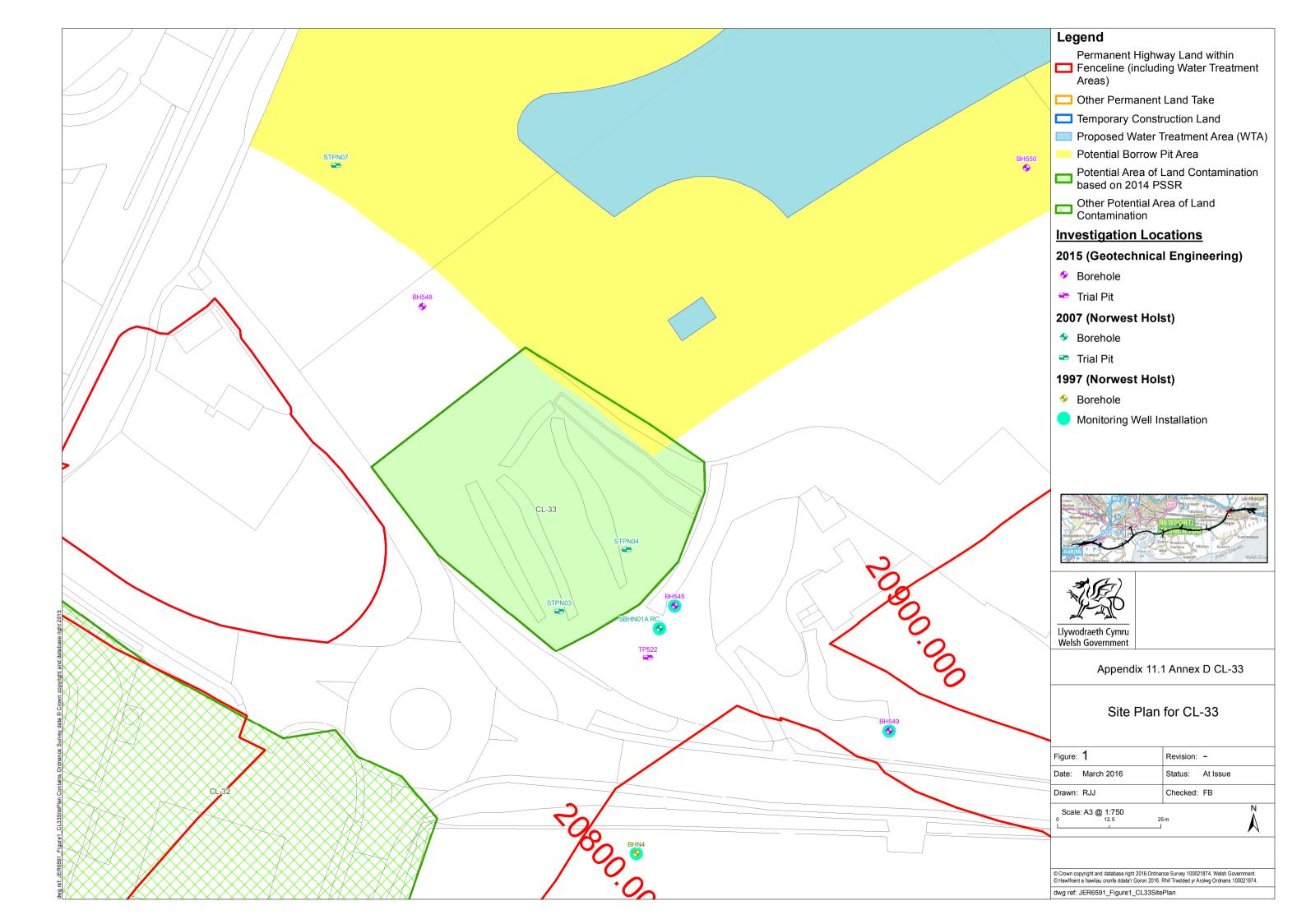
UKAS United Kingdom Accreditation Service

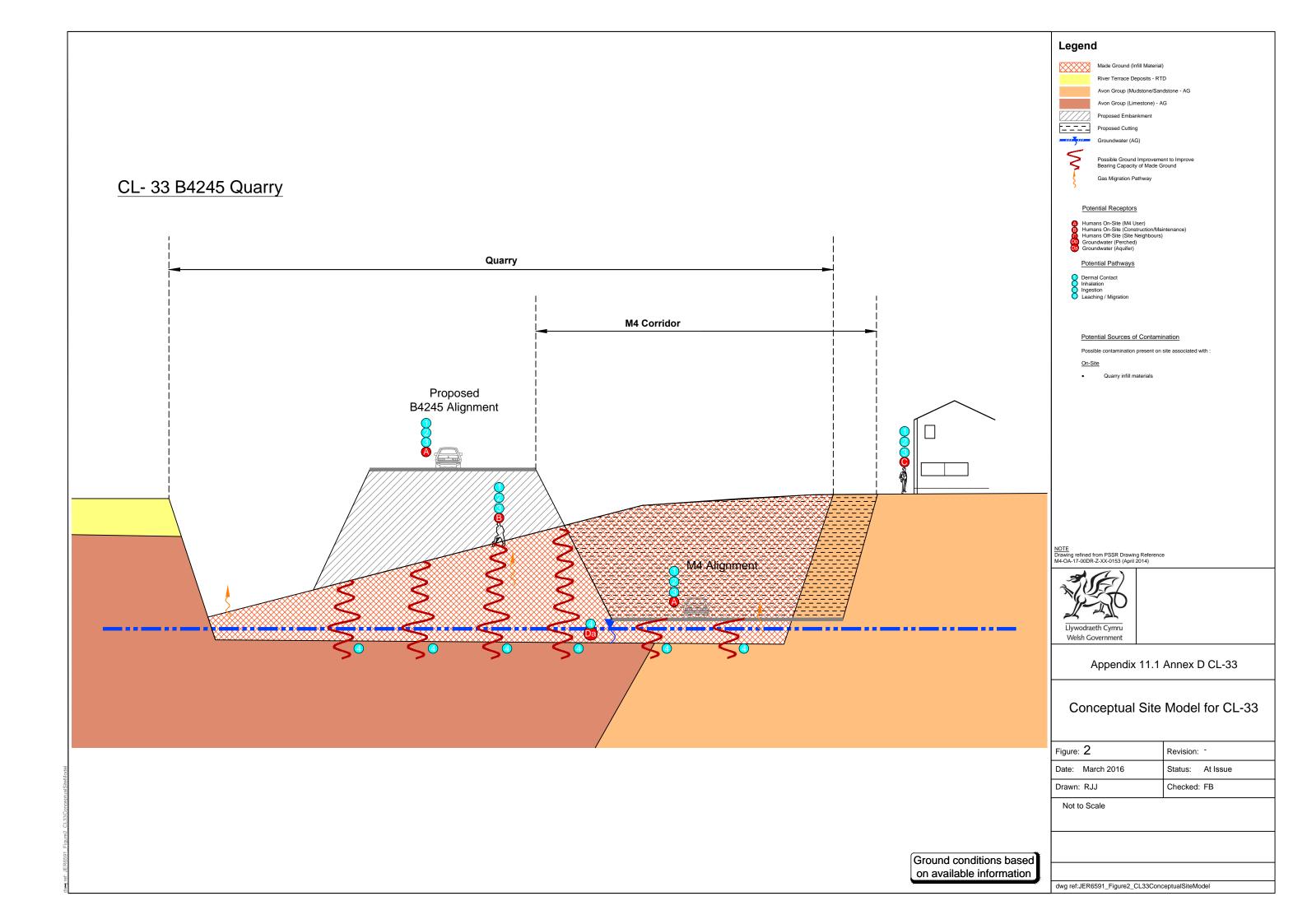
VOCs Volatile Organic Compounds

WFD Water Framework Directive

UXO Unexploded Ordnance Survey

Figures





Appendices

Appendix 1

Exploratory Records



Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Hole ID. SBHN01 RC Header

Contract No. F15056 Method

Rotary Coring

341960.35 E

Project

New M4 - Second Preliminary GroundDrilling Rig Investigation

Site Master

Client

Transport Wales, Welsh Assembly

ВВ

187619.31 N

Driller

Ground Level

18.90m AOD

Government

Logged by

DH Orientation PWF Date Started Vertical 17/12/2007

Consultant

Ove Arup & Partners Ltd

Core barrel Core bit TC

Date Completed

Coordinates

18/12/2007

			PROGRESS				DR	ILLING DET	AILS	
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To depth	Flush type	Flush return	Core diameter
17/12/2007	1730	8.00	3.50	5.10	End of Shift	0.00	2.00	Air/Mist	100%	0.00*
18/01/2008	0730	8.00	3.50	1.80	Start of Shift	2.00	9.30	Air/Mist	100%	92.0
18/01/2008	1730	9.30	3.50	NR	End of Hole					

	CAS	SING			WATER STRIKES								
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow		
121	9.30	121	3.50	17/12/2007	1100	3.45	3.20	20	Seepage	NR	NR		

GENERAL NOTES			SPT DETAILS		
1.Rotary Openhole from GL to 2.00m.	Depth	Туре	Incremental blow count/penetration	Casing	Water Depth
2.Rotary Coring from 2.00m to 9.30m. 3.Rotary coring terminated at 9.30m, refer to SBHN01A for redrill. 4.Borehole grouted upon completion. 5.0.00* indicates openhole drilling.	1.20 2.00 3.00 4.00 5.00 6.00 7.00	S S S	Incremental blow count/penetration N=8 (1,1,2,2,2,2) N=24 (2,2,4,6,6,8) N=26 (2,3,3,6,7,10) N=24 (14,7,5,4,5,10) N=93 (3,22,18,25,25,25) 90/160mm (25,74,16) 100/30mm (25,100)	0.00 0.00 2.00 3.50 3.50 3.50 3.50	Depth DRY DRY DRY 1.20 1.70 1.90 1.50

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes.

Form	ARIAL ROTARY HEADER
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Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Hole ID.

SBHN01 RC

Sheet 1 of 1

Method Coordinates Contract No. F15056 **Rotary Coring** 341960.35 E New M4 - Second Preliminary GrourDirilling Rig Project Site Master 187619.31 N Investigation ВВ **Ground Level** 18.90m AOD DH Logged by Orientation Vertical Client Transport Wales, Welsh Assembly PWF Core barrel Date Started 17/12/2007 Government Ove Arup & Partners Ltd Consultant Core bit TC Date Completed 18/12/2007

	Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	RQD	F	SPT N & depth	Install- ation
	Turf over firm brown TOPSOIL. (Driller's description)		0.20	- - 18.70							-
	MADE GROUND: Very dense brick/boulder fill. (Driller's description)			- - -							
	Stiff red brown mottled yellowish brown silty CLAY. (Driller's description)		0.80	- 18.10 -						-	_
				- - -						1.20 1.65 S8	
			2.00	- - 16.90						2.00 2.45 -	_
	Zone of core loss. Stiff red brown mottled yellowish brown silty CLAY. (Driller's description)			- - - -	2.00 3.00		NA	NA		S24	
	Very weak to extremely weak greyish brown MUDSTONE.		3.00	_ 15.90 						3.00 3.45 - \$26	
	(Mercia Mudstone Group (Marginal Facies)from 3.00m to 3.34m recovered as non intact core (gravelly clay. Gravel is angular fine to medium sized fragments)from 3.38m to 4.00m assumed zone of core loss				3.00 4.00	38	4	0	NI NI NI		
	from 4.00m to 4.28m recovered as non intact core (gravelly clay. Gravel is angular fine to medium sized fragments)				4.00 4.70	87	43	24		4.00 4.45 - \$24	
\	from 4.57m to 4.61m recovered as non intact core (gravelly clay. Gravel is angular fine to medium sized fragments)		4.70	- - 14.20 - - - 13.90	4.70 5.00		NA	NA		5.00 5.45 -	
//	from 4.61m to 4.70m assumed zone of core loss Zone of core loss		0.00	- 10.00					NI NI 310	S93	
	Very weak to extremely weak greyish brown MUDSTONE (Mercia Mudstone Group (Marginal Facies))from 5.00m to 5.19m recovered as non intact core		6.00	- - - - - - - 12.90	5.00 6.00	55	35	35		6.00 6.21 -	
	(gravelly clay. Gravel is angular fine to medium sized fragments)from 5.35m to 5.55m occasional thick laminations of weak reddish brown mudstone. Highly weatheredfrom 5.55m to 6.00m assumed zone of core loss			- - - - -	6.00 7.00	75	75	44		S90/160mm	
	Very weak to weak thinly laminated reddish brown MUDSTONE. Discontinuities 1) 0 -10 deg extremely closely to medium spaced undulating rough. (Mercia Mudstone			- - - -					-	7.00 7.05 - S100/30mm	
	Group (Marginal Facies))from 7.00m to 7.53m with many extremely closely spaced laminations of weak grey mudstone and weak grey siltstone. Highly weathered			- - - -	7.00 8.00	96	92	47	NI 110 220		
	from 7.53m to 7.89m some very closely spaced laminations of weak to medium strong light grey siltstone. Moderately weatheredfrom 7.68m to 7.72m recovered as non intact core			- - - -						-	
	(angular to subangular fine to coarse gravel sized fragments of mudstone)from 7.89m to 8.19m many very closely spaced thick laminations of weak to medium strong light greyish brown siltstone. Moderately weathered			- - - -	8.00 9.30	90	67	55		-	
	weathered at 8.21m 1 No thick discontinuous lamination of very weak grey mudstone. Highly weathered at 8.24m 1 No thick discontinuous lamination of very		9.30	9.60							

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Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Hole ID.

SBHN01 RC

Sheet 1+ of 1

F15056 Coordinates Contract No. Method **Rotary Coring** 341960.35 E New M4 - Second Preliminary GrourDirilling Rig Project Site Master 187619.31 N Investigation ВВ **Ground Level** 18.90m AOD DH Orientation Logged by Vertical Client Transport Wales, Welsh Assembly PWF Core barrel Date Started 17/12/2007 Government Ove Arup & Partners Ltd Consultant Core bit TC Date Completed 18/12/2007

Description of Strata	Legend		Datum Level	Coring and	TCR	SCR	RQD	<u></u>	SPT N & depth	Install
Remaining Detail: 8.24m - 8.24m: weak grey mudstone. Highly weathered;; 8.26m - 8.27m:from 8.26m to 8.27m recovered as non intact core (angular fine to medium gravel sized fragments);;; 8.30m - 8.36m:from 8.30m to 8.36m many extremely closely spaced thin laminations of weak grey siltstone. Moderately weathered;; 8.36m - 8.50m:from 8.36m to 8.50m to Normal Moderately weathered;; 8.50m - 8.69m:from 8.50m to 8.69m recovered as non intact core (angular fine to coarse gravel sized fragments of mudstone);; 9.15m - 9.17m:from 9.15m to 9.17m to 9.30m assumed zone of core loss Rotary drilling complete at 9.30 m.	Legend	Length		Sampling	101	SOS SOS SOS SOS SOS SOS SOS SOS SOS SOS	RQI		& depth	ation
			_ _ _							- - - -

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Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Hole ID. SBHN01A RC Header

Coordinates Contract No. F15056 Method **Rotary Coring** 341999.49 E Project

New M4 - Second Preliminary GroundDrilling Rig Site Master 187625.32 N

Investigation ВВ Driller **Ground Level** 20.48m AOD

Transport Wales, Welsh Assembly DH Orientation Client Logged by Vertical Government Core barrel PWF Date Started 18/12/2007 Consultant Ove Arup & Partners Ltd Core bit TC Date Completed 09/01/2008

			PROGRESS		DRILLING DETAILS									
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To depth	Flush type	Flush return	Core diameter				
18/12/2007	1730	2.00	1.80	DRY	End of Shift	0.00	2.00	Air/Mist	100%	0.00*				
19/12/2007	0730	2.00	1.80	DRY	Start of Shift	2.00	5.60	Air/Mist	0%	92.0				
19/12/2007	1730	6.60	3.00	5.00	End of Shift	5.60	6.60	Air/Mist	10%	92.0				
20/12/2007	0730	6.60	3.00	6.50	Start of Shift	6.60	9.40	Air/Mist	100%	92.0				
20/12/2007	1730	9.40	6.50	8.00	End of Shift	9.40	15.00	Air/Mist	100%	92.0				
08/01/2008	0730	9.40	6.50	5.50	Start of Shift									
08/01/2008	1730	10.60	6.50	5.50	End of Shift									
09/01/2008	0730	10.60	6.50	5.00	Start of Shift									
09/01/2008	1730	15.00	6.50	NR	End of Hole									
									l					

	CAS	SING		WATER STRIKES											
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise		Casing depth at strike time	Casing depth to seal flow				
121	15.00	121	6.50			·	·								

2.Rotary Coring 2.00m to 15.00m. 3.19mm piezometer installed, tip at 14.90m, with response zone 14.40m to 15.00m. 2.00 s	Туре	Incremental blow count/penetration	Casing	Water
3.19mm piezometer installed, tip at 14.90m, with response zone 14.40m to 15.00m.			Casing	Depth
4.20 5.20 5.20 6.60 7.60 8.60 8.60 8	S S S S S S S	N=8 (2,2,2,2,2) N=13 (3,2,3,4,4,2) 21/300mm - Abandoned N=22 (17,8,7,7,4,4) 33/300mm - Abandoned N=72 (4,8,14,19,24,15) N=67 (6,10,11,19,8,29) 100/130mm (25,50,50) 100/160mm (9,14,30,50,20)	0.00 0.00 1.80 3.00 3.00 6.50 6.50 6.30	Depth DRY DRY 4.00 5.00 6.50 6.50 8.00 5.50

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes.

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Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Hole ID.
SBHN01A RC
Sheet 1 of 2

F15056 Method Coordinates Contract No. **Rotary Coring** 341999.49 E New M4 - Second Preliminary GrourDirilling Rig 187625.32 N Project Site Master Investigation ВВ **Ground Level** 20.48m AOD DH Orientation Logged by Vertical Client Transport Wales, Welsh Assembly PWF Core barrel Date Started 18/12/2007 Government Ove Arup & Partners Ltd Consultant Core bit TC Date Completed 09/01/2008

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	RQD	ഥ	SPT N Instal & depth ation
Brown CLAY with frequent limestone, sandstone cobbles. (Driller's description)		0.00	- - - - - - 19.88						- X
Dark brown reddish brown silty CLAY with frequent limestone/sandstone cobbles. (drillers description)		0.60	19.00						1.00 1.45 — S8 —
Boulder of strong to very strong yellowish brown fine to medium grained sandstone			_ _ _ _ 18.48	2.00 2.50	24	NA	NA		2.00 2.45 — S13
from 2.00m to 2.12m recovered as non intact core (subangular gravel sized fragments)from 2.12m to 2.50m assumed zone of core lossfrom 2.89m to 3.20m assumed zone of core loss			-	2.50 3.20	56	NA	NA	NA	
from 3.24m to 3.25m reddish brownfrom 3.28m to 3.29m greyfrom 3.34m to 3.70m assumed zone of core loss	000	,	- - - - - - 16.78	3.20 3.70	24	NA	NA		3.20 3.62 - S21/300mm - Atlant
Zone of core loss. reddish brown silty clay with frequent sandstone gravelly bands. (Driller's description)			- - - -	3.70 4.20		NA	NA	NA	4.20 4.65 - S22
Firm to stiff brown slightly gravelly CLAY with occasional rootlets. Gravel is angular fine to coarse of sandstone		4.70	- - - 15.78 - - -	4.70 4.70		0 0	NA 0		
from 5.16m to 5.20m assumed zone of core loss		5.60	- - - - 14.88	5.20 5.40 5.40 5.60		0	0	NA NI NI	5.20 5.63
Weak to very weak reddish brown locally greyish brown MUDSTONE. (Mercia Mudstone Group(Marginal Facies))from 5.60m to 5.80m thin bed of strong red limestonefrom 5.81m to 7.05m recovered as non intact core (firm to stiff slightly gravelly clay. Gravel sized fragments are angular fine to medium)			- - - - - -	5.60 6.60	100	0	0		
from 6.60m becomes greyish brownfrom 7.07m to 7.12m recovered as non intact core (firm to stiff slightly grafely clay. Gravel sized			- - - - -	6.60 7.60	52	0	0	NI NI 20	6.60 7.05
fragments are angular fine to medium)from 7.12m to 7.60m assumed zone of core lossfrom 7.60m to 7.86m recovered as non intact core (firm to stiff slightly gravelly clay. Gravel sized fragments angular fine to medium)from 7.90m to 8.60m assumed zone of core loss			- - - - - - -	7.60 8.60	30	7	0		7.60 8.05 7 8.05 7 7 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
from 8.60m to 8.76m recovered as non intact core (angular to subangular fine to coarse gravel sized fragments)from 9.04m to 9.18m recovered as non intact core			- - - - -	8.60 9.40	73	23	15	NI 30 125	8.60 8.81 - S100/130mm -
(slightly gravelly clay. Gravel sized fragments are angular fine)from 9.18m to 9.40m assumed zone of core loss		9.40 9.63	- 11.08 - 10.85					NI NI NI	9.40 9.71 - S100/160mm

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Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Hole ID. SBHN01A RC Sheet 2 of 2

Method Coordinates Contract No. F15056 **Rotary Coring** 341999.49 E New M4 - Second Preliminary GrourDirilling Rig Project Site Master 187625.32 N Investigation ВВ **Ground Level** 20.48m AOD DH Logged by Orientation Vertical Client Transport Wales, Welsh Assembly PWF Core barrel Date Started 18/12/2007 Government Ove Arup & Partners Ltd Consultant Core bit TC Date Completed 09/01/2008

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	RQD	Ŀ	SPT N & depth	Install- ation
			-	. •	78	56	43		<u> </u>	
9.40m - 9.63m : Extremely weak grey MUDSTONE. Destructured. Recovered as non intact core (soft to firm grey slightly gravelly clay. Gravel is angular to subangular fine to medium). (Mercia Mudstone Group (Marginal Facies))								NI 120		
9.63m - 12.50m : Weak to moderately strong interlaminated grey MUDSTONE and reddish brown fine grained SANDSTONE. Moderately weathered and destructured. Discontinuities 1) 0 -15 deg very closely			- - - - -	10.60 11.80	96	73	62	240		
to closely spaced undulating rough locally clay infilled. (Mercia Mudstone Group (Marginal Facies)) Detail 9.78m - 9.80m:from 9.78m to 9.80m recovered as non intact core (grey gravelly clay. Gravel sized fragments are angular fine to coarse of mudstone)		12.50	- - - - 7.98	11.80 13.40	94	88	60			
Detail 10.40m - 10.60m :from 10.40m to 10.60m assumed zone of core loss Detail 10.60m - 10.78m :from 10.60m to 10.78m 1 No thin bed of extremely weak grey mudstone. Destructured. Recovered as gravelly clay. Gravel sized fragments are angular fine to coarse	100000000000000000000000000000000000000	13.40	- - - - - - - - 7.08					NI 220 410		
Detail 11.70m - 11.75m :from 11.70m to 11.75m recovered as non intact core (angular coarse gravel sized fragments) Detail 11.75m - 11.80m :from 11.75m to 11.80m assumed zone of core loss	XXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	14.10	- - - - - - 6.38	13.40 15.00	90	89	63	NI 90 180		
Detail 12.30m - 12.32m :from 12.30m to 12.32m 1 No very thin bed of reddish brown sandstone. Moderately weathered Detail 12.38m - 12.43m :from 12.38m to 12.43m 1 No			-	13.40 15.00	90	69	63	140 300 510		
very thin bed of reddish brown sandstone. Moderately weathered from 10.40m to 10.60m assumed zone of core lossfrom 10.60m to 10.78m 1 No thin bed of extremely weak grey mudstone. Destructured. Recovered as gravelly clay. Gravel sized fragments are angular fine to coarsefrom 11.70m to 11.75m recovered as non intact core (angular coarse gravel sized fragments)from 11.75m to 11.80m assumed zone of core lossfrom 12.30m to 12.32m 1 No very thin bed of reddish brown sandstone. Moderately weatheredfrom 12.38m to 12.43m 1 No very thin bed of reddish brown sandstone. Moderately weathered		15.00	5.48							12502 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Medium strong thin laminated reddish brown locally light reddish brown fine grained SANDSTONE. Locally with laminations of reddish brown and grey mudstone. (Mercia Mudstone Group (Marginal Facies))from 12.73m to 12.88m 1 No thin bed of extremely weak reddish brown mudstone. Destructured. Recovered as slightly gravelly clay. Gravel sized fragments are angular fine to coarse										
infilled with fine gravel sized quartz crystals ifrom 13.31m to 13.40m assumed zone of core loss Interlaminated weak reddish brown SILTSTONE and very weak grey MUDSTONE. Discontinuities 1) 0-15 deg			-							
extremely closely to closely spaced undulating rough locally clay infilled. (Mercia Mudstone Group (Marginal Facies)from 13.75m to 13.77m recovered as non intact core			- · 							-
(gravelly clay. Gravel sized fragments are angular fine			-							

Form	ARIAL ROTARY LOG
Version	3.09
Revised	17/12/2007

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Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Hole ID.
SBHN01A RC
Sheet 2+ of 2

F15056 Coordinates Contract No. Method **Rotary Coring** 341999.49 E New M4 - Second Preliminary GrourDirilling Rig 187625.32 N Project Site Master Investigation ВВ 20.48m AOD **Ground Level** DH Orientation Logged by Vertical Client Transport Wales, Welsh Assembly PWF Core barrel **Date Started** 18/12/2007 Government Ove Arup & Partners Ltd Consultant Core bit TC Date Completed 09/01/2008

		D.::	Dat	O-min			1		OPTN	
Description of Strata	Legend	Drilled Length		Coring and Sampling	TCR	SCR	RQD	브	SPT N & depth	Install- ation
13.40m - 14.10m : Remaining Detail : 13.75m - 13.77m : to coarse of mudstone);;; 13.77m - 13.81m :from 13.77m to 13.81m 1 No discontinuity 90 deg undulating rough stained dark brown;;; 13.78m - 13.81m :from 13.77m to 13.81m 1 No very thin bed of weak reddish brown fine grained sandstone. Moderately weathered 14.10m - 15.00m : Strong to very strong reddish brown fine grained SANDSTONE. Moderately weathered. Discontinuities 1) 0 - 10 deg medium spaced undulating rough. 2) 0 - 10 deg very closely to closely spaced incipient discontinuities undulating infilled with quartz. (Mercia Mudstone Group (Marginal Facies));;; 14.22m - 14.34m :from 14.22m to 14.34m 1 No stylolite 80 - 90 deg;;; 14.82m - 15.00m :from 14.82m to 15.00m assumed zone of core loss Rotary drilling complete at 15.00 m.										

Form	ARIAL ROTARY LOG
Version	3.09
Revised	17/12/2007



Norwest Holst Soil Engineering Ltd. TRIAL PIT LOG

Hole ID.
STPN03
Sheet 1 of 1

Contract No.

F15056

Method

Hand Excavated

Coordinates

Silecti

Project

Client

1 10000

New M4 - Second Preliminary Ground Investigation

Hand Tools

WA

Ground Level

341975.28 E 187629.53 N 20.69m AOD

Transport Wales, Welsh Assembly

Government

Logged by

Equipment

Date Started

06/12/2007

Consultant

Ove Arup & Partners Ltd

Date Completed 06/12/2007

Description of Strata	Legend	Depth Below G.L.	Datum Level	S	ampling	Remarks
Brown clayey TOPSOIL. MADEGROUND: light brown slightly clayey slightly sandy slightly gravelly SILT with low cobble content. Gravel is angular to subrounded fine to coarse of limestone. Cobbles are subangular of limestone and brick. (Head		0.30		ES1 D2 B3	0.30 0.30 0.30	-
Cobbles are subangular of limestone and brick. (Head Deposits) Trial pit complete at 1.20 m.		1.20	- - - - 19.49 -	ES4 D5 B6 ES4	1.00 1.00 1.00 1.00	- - - - - -
			- - - - -			- - - - - -
			-			
			- - - - -			
			- - - -			
			- - - -			
			- - - -			
			- - -			

Stability All faces stable

Shoring

None used

Groundwater

None encountered during excavation

Remarks

1.Hand excavated trial pit complete at 1.20m.

	Sketch	n Plan of Trial A	Pit
A	◀	0.40m	>
D 0.40m			В
,		С	Bearing

NOTES: All depths in metres, all soil strengths in kPa. See legend sheet for key to symbols and abbreviations. All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.06
Revised	17/12/2007



Norwest Holst Soil Engineering Ltd. TRIAL PIT LOG

Hole ID. STPN04 Sheet 1 of 1

Contract No.

F15056

Investigation

Method

Equipment

Hand Excavated

Coordinates

341991.56 E

Project

New M4 - Second Preliminary Ground

Hand Tools

WA

Ground Level 17.63m AOD

187644.33 N

Client

Transport Wales, Welsh Assembly

Government

Logged by

Date Started Date Completed 06/12/2007 06/12/2007

Consultant

Ove Arup & Partners Ltd

Description of Strata	Legend	Depth Below G.L.	Datum Level	S	sampling	Remarks
Brown clayey TOPSOIL. MADEGROUND: light brown silty slightly sandy slightly gravelly CLAY with low cobble content. Gravel is			- - - 17.33 - -	ES1 D2 B3	0.30 0.30 0.30	
angular to subrounded fine to coarse of limestone and brick. Cobbles are subangular of limestone. (Head Deposits) Trial pit complete at 1.00 m.		1.00	- - - 16.63	ES4 D5 B6	1.00 1.00 1.00	Unable to penetrate large limestone cobble/boulder
			- - - - - -			
			- - - -			
			- - - -			
			- - - -			
			- - - -			
			- - - -			

Stability

All faces stable

Shoring

None used

Groundwater

None encountered during excavation

Remarks

1. Hand excavated trial pit terminated at 1.00m due to hard

strata.

	Sketcl	h Plan of Tria A	l Pit	
A 1	◀	0.40m	>	
D 0.40m				В
•				
		С	Bearing	-

NOTES: All depths in metres, all soil strengths in kPa. See legend sheet for key to symbols and abbreviations.

All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.06
Revised	17/12/2007

BOREHOLE LOG

Start Date



CLIENT WELSH GOVERNMENT

2 March 2015

DIIJT

1:50

SITE M4 CORRIDOR AROUND NEWPORT

Sheet 1 of 2

Scale

End Date 3 March 2015 Northing 187630.8 Ground level 19.15mOD Depth 13.00 m

342003.2

Easting

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I _f	instru -ment	description	depth (m)	reduced level (m)	legend
02/03/15 0930hrs	1B 2D* 3B 4D*	0.20 - 0.50 0.20 - 0.50 0.50 - 1.00 0.50 - 0.70	-	Vo 0.0 Vo 0.0			/ /	Grass over stiff reddish brown mottled light grey and pale yellow slightly sandy silty CLAY with low subrounded quartzite cobble content and frequent roots (up to 5mm) and rootlets (up to 1mm). (MG)	0.50	18.65	
	5B 6D* 7D* 8D 9X	1.00 - 1.20 1.00 - 1.20 1.20 - 1.30 1.20 - 1.65 1.20 - 2.00	- - Nil	Vo 0.0 S 9				Stiff dark greyish brown slightly sandy gravelly silty CLAY with frequent roots (up to 4mm) and rootlets (up to 1mm). Gravel is subangular fine to coarse red brick and quartzite. (MG)	1.00 <u>-</u> 1.20 <u>-</u>	18.15 17.95	
	10D*	1.80 - 2.00			-			Firm locally soft friable dark greyish brown slightly sandy gravelly silty CLAY. Gravel is subangular fine to coarse quartzite. (MG)	1.65	17.50	
	11D 12X 13C	2.00 - 2.25 2.00 - 2.20 2.20 - 3.00	Nil - - 2.10	S*150	75 68 58	NI 190 260		Stiff to very stiff dark greyish brown slightly sandy slightly gravelly silty CLAY. Gravel is subangular to rounded fine and medium sandstone. (MG) 1.60 - 1.65m: Light greenish pink clayey gravel. Gravel is angular fine to coarse sandstone.	2.20 -	16.95 16.80	
	14C	3.00 - 3.11 3.00 - 4.50	2.10	C*333	98 83 68			Very stiff reddish brown mottled purplish red and yellow slightly sandy gravelly silty CLAY with rare rootlets (up to 1mm) and gypsum crystals (up to 1mm). Gravel is subrounded fine to coarse sandstone. 1.90 - 1.95m: Roots (up to 15mm diam).	- - - - -		• • • •
			-					Light grey to dark brownish grey clayey subangular and subrounded fine to coarse quartz and sandstone GRAVEL.	- - -		
	15C	4.50 - 5.50	2.10		100 50 24			Medium strong to very strong bluish grey fine to coarse SANDSTONE. Fractures are subhorizontal to 20° extremely closely to medium spaced undulating rough stained orangish brown infilled (up to 2mm) with reddish brown clay. 3.25 - 3.30m: Subhorizontal quartz vein (up to 1mm).	- - - - - - -		
	16C	5.50 - 7.00	2.10		80 22 15			3.40 - 3.45m: Subhorizontal quartz vein (up to 1mm). 3.50 - 5.75m: Frequently infilled with quartz crystals (up to 2mm). 3.95 - 4.00m: Subhorizontal quartz vein (up to 1mm).	5.75	13.40	• • • • • • • • • • • • • • • • • • • •
			- - - -		15	NI NA		Drilling disturbed. Reddish brown SANDSTONE recovered non intact as subangular fine to coarse sandstone gravel.	6.00	13.15	
			-					Stiff to very stiff reddish brown sandy silty CLAY locally tending to extremely weak mudstone.	7.00	12.15	
	17C	7.00 - 8.50	2.10		86			Stiff to very stiff fissured brownish red mottled dark grey sandy silty CLAY with rare very thin and thin beds of mudstone. Frequent thick laminae of black organic clay with strong organic odour and frequent light greenish grey reduction spots (up to 20mm).	7.00 _	12.15	
							,*:: - *::"	Continued Next Page	{8.00}		

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (128mm) 1.20-2.00m and (113mm) 2.00-2.20m. Waterflush rotary core drilled (116mm) 2.20-13.00m.

CASING: 140mm diam to 2.10m.

BACKFILL: On completion, a slotted standpipe (50mm) was installed to 12.50m, granular response zone 13.00-3.00m, bentonite seal 3.00-0.20m, concrete and stopcock cover 0.20-0.00m.

REMARKS: Driller notes loss of flush returns 3.00-13.00m.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered prior to use of water flush.



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Geotechnical Engineering Limited

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

BH545

SITE M4 CORRIDOR AROUND NEWPORT

Sheet 2 of 2

Start Date 2 March 2015 Easting 342003.2

Scale 1 : 50

End Date 3 March 2015 Northing 187630.8 Ground level 19.15mOD Depth 13.00 m

End Date	3 IV	March 2015)		Nort	ning	18	7630.8 Ground level 19.15m	ט טט	epth	1.	3.00 r
progress date/time water depth	sample no & type	depth (m)	casing depth (m)	test type & value	samp. /core range	If	instru -ment	description		depth (m)	reduced level (m)	legend
02/03/15 1645hrs 5.40m 03/03/15 0830hrs 6.90m	18C	8.50 - 10.00 10.00 - 11.50	2.10		100 0	NI NA		Reddish brown SANDSTONE recovered non in slightly sandy clayey angular and subangular flicoarse sandstone gravel. Very stiff locally stiff thinly laminated to thickly be reddish brown mottled light grey and purplish resandy silty CLAY with frequent very thin and this strong thickly laminated reddish brown and ligh sandstone. Frequent subhorizontal undulating refissures.	tact as ne to sedded ed slightly n beds of t grey fine	8.50 -	10.65 10.55	X X X X X X X X X X X X X X X X X X X
03/03/15 1020hrs 5.45m	20C	11.50 - 13.00	2.10		100 57 52	NI 140 340		Stiff fissured thinly laminated dark grey slightly CLAY. Fissures are subhorizontal extremely class paced planar smooth. Weak thinly laminated reddish brown light grey SANDSTONE. Fractures are subhorizontal closs medium spaced locally not intact planar rough weneer of reddish brown clay.	sandy silty bsely	11.35 -	7.80 7.40	
								Borehole completed at 13.00m.				
										111111111111111111111111111111111111111		
water strike	(m) casi	ing (m) rose	to (m) ti	me to ris	se (m)	rema Grou	ındwat	er not encountered prior to use of water	CONTRA 30238		CHE(CKEC

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Geotechnical Engineering Limited

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

4 March 2015

BH549

1 of 2

SITE M4 CORRIDOR AROUND NEWPORT

Sheet

Scale 1 : 50

Start Date 3 March 2015

End Date

Easting 342054.9

Northing

187600.6 Ground level

18.95mOD

Depth 12.00 m

progress	sample	depth (m)	casing	test	samp.		instru		depth	reduced	legend
date/time water depth	no & type	from to	depth (m)	type & value	/core range	If	-ment	description	(m)	level (m)	
03/03/15 1315hrs	1B 2D* 3B	0.20 - 0.30 0.20 - 0.30 0.50 - 0.60	-	Vo 0.0				Soft dark brown sandy CLAY with rare roots (up to 2mm diam). (MG)	0.30	18.65	
	4D* 5B	0.50 - 0.60 1.00 - 1.20	-	Vo 0.0				Firm reddish brown slightly sandy slightly gravelly CLAY with rare roots (up to 2mm diam). Gravel is subrounded fine to coarse siliceous.	- -		
	6D* 7D 8X	1.00 - 1.10 1.20 - 1.65 1.20 - 2.00	- Nil	Vo 0.0 S 12				Firm reddish brown mottled yellow gravelly silty CLAY.	1.20	17.75	
	67.		-					Gravel is subangular fine sandstone.	- - - -	-	
	9D 10X	2.00 - 2.07 2.00 - 2.10	Nil - 2.10	S*375	100	NI		Weak reddish brown mottled grey fine SANDSTONE with	2.10	16.85	
	11C	2.10 - 3.00			100 57 41	NI 130 220		rare quartz veins. Fractures are subhorizontal to 15° closely to medium spaced undulating rough infilled (up to 2mm) with clay.	- - - -	-	
03/03/15	9C	3.00 - 3.20 3.00 - 3.50	2.10	C*300	100 100 85	NI		2.65m: Incipient fracture. 2.65m: Incipient fracture.	3.00	15.95	• • • •
1645hrs 3.20m	10C	3.50 - 4.00	2.10			NI 130 190		Weak and medium strong reddish brown and grey fine SANDSTONE with rare quartz veins. Fractures are subhorizontal to 20° and 65° to subvertical closely	- - - -		
0825hrs Dry			_		100 89 89			spaced undulating rough infilled (up to 2mm) with clay.	-	-	
	11C	4.00 - 5.50	2.10		87 78 70				- - - -		
			-						- - -	-	
			-					5.30 - 5.80m: Limited recovery.	5.50	13.45	
	12C	5.50 - 7.00	2.10		80 51 51	NI 140 280		Medium strong and strong reddish brown and grey fine SANDSTONE. Fractures are subhorizontal to 20° and 55°	. 3.30 ₋ - -	13.43	
			-					to subvertical closely and medium spaced undulating rough infilled (up to 2mm) with clay. 5.80 - 6.20m: Recovered non intact.	-		
									- - -		
	13C	7.00 - 7.50	2.10		100 100 86				-	-	
	14C	7.50 - 9.00	2.10		80 54 30				- - -		
			_		30			Continued Next Page	{8.00}	-	

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (128mm) 1.20-2.00m and (113mm) 2.00-2.10m. Waterflush rotary core drilled (116mm) 2.10-12.00m.

CASING: 140mm diam to 2.10m.

BACKFILL: On completion, a slotted standpipe (50mm) was installed to 12.00m, granular response zone 12.00-8.00m and bentonite seal 8.00-4.00m. A second slotted standpipe (35mm) was installed to 4.00m, granular response zone 4.00-2.00m, bentonite seal 2.00-0.20m, concrete and stopcock cover 0.20-0.00m. REMARKS: Driller notes reduced flush returns 2.10-3.50m (90% returned) and loss of flush 3.50-12.00m.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered prior to use of water flush.



30238

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Geotechnical Engineering Limited

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

BH549

SITE M4 CORRIDOR AROUND NEWPORT

Sheet 2 of 2

Start Date 3 March 2015 Easting 342054.9

Scale 1 : 50

End Date 4 March 2015 Northing 187600.6 Ground level 18.95mOD Depth 12.00 m

End Date	4 N	/larch 2	2015			North	ning	18	7600.6	Ground le	evel 18.95	mOD	Depth	12	2.00 m
progress date/time water depth	sample no & type	depth	to	casing depth (m)	test type & value	samp. /core range	If	instru -ment		(description		depth (m)	reduced level (m)	legend
	15C	9.00 -		2.10		100 71 9	NI 85 165		thinly bedo tending to lithorelicts	led grey and re	y weak thinly lamina eddish brown MUDS oular fine to coarse g e subhorizontal to 20 ar smooth.	STONE locally gravel sized	8.30	10.65	****
04/03/15 1550hrs 8.20m						100 78 66	NI 115 230		and grey N closely an with clay. I	MUDSTONE. F d medium spa	o very thinly bedded Fractures are subho ced planar smooth i grated to fine to coa 2.00m.	rizontal to 20° nfilled (2mm)	12.00_	7.35 6.95	
water strike	(m) casi	ing (m)	rose to	o (m) ti	me to ris	e (m)	rema	arks				CONTR	{18.00} ACT	CHE	CKED
	. ,	· ,		. , -		. ,		undwat	er not encou	intered prior to	o use of water	302		E	

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Appendix 2

Gas & Groundwater Monitoring Data

Project Name New M4 Preliminary Ground Investigation
Project No. F15056
Engineer Ove Arup & Partners Ltd
Client Transport Wales, Welsh Assembly Government

Groundwater Readings
For Installations

Fig no.

01

NOTES: SPIE=Piezometer, SP=Standpipe

For multiple installations, use different Installation IDs.

For piezometers installation depth = tip depth. For standpipes = base of pipe

COMMENTS SBHM01 RC installation extends 0.50m above ground level. - symbol indicates water level is above GL

All groundwater levels are recorded from ground level

			els are recor	ded from	n ground						
Insta	llation Det	ails					ed Water Lev	/el			
Type	Depth	ID	Date	Time	Reading		Time	Reading	Date	Time	Reading
											m
SPIE	8.05		30/01/2008	09:50	2.45	25/02/2008	14:34	2.48	07/03/2008	14:25	2.60
SPIE	10.00		30/01/2008	11:01	0.47	25/02/2008	14:52	0.43	07/03/2008	14:05	0.56
SPIE	12.00		31/01/2008	09:00	1.02	25/02/2008	15:35	1.05	07/03/2008	13:50	1.77
SP	15.00		30/01/2008	13:00	1.13	21/02/2008	10:30	1.39	07/03/2008	13:30	1.39
SPIE	29.50		30/01/2008	13:50	1.20	25/02/2008	15:58	2.02	07/03/2008	13:35	1.40
SPIE	25.00		31/01/2008	09:25	2.18	25/02/2008	16:20	2.09	07/03/2008	13:10	2.48
SPIE	17.20		31/01/2008	09:15	2.31	25/02/2008	16:11	2.51	07/03/2008	13:20	2.59
SPIE	19.00		31/01/2008	09:40	5.69	25/02/2008	16:32	5.72	07/03/2008	12:50	5.43
SPIE	17.00		01/02/2008	14:40	7.61	25/02/2008	17:13	7.57	07/03/2008	12:30	9.00
SPIE	18.00		31/01/2008	10:35	6.97	26/02/2008	08:55	6.77	07/03/2008	12:15	7.22
SPIE	25.00		31/01/2008	11:15	3.45	26/02/2008	09:39	3.42	07/03/2008	11:28	3.65
SPIE	14.90		31/01/2008	11:10	3.42	26/02/2008	09:20	3.88	07/03/2008	11:35	3.64
SPIE	21.50		31/01/2008	11:30	2.22	26/02/2008	10:01	2.13	07/03/2008	11:05	3.10
SP	12.30		30/01/2008	15:30	3.75	21/02/2008	08:00	3.76	07/03/2008	11:10	3.87
SPIE	24.85		30/01/2008	14:50	1.70	26/02/2008	10:40	1.34	07/03/2008	11:00	1.07
SP	7.50		01/02/2008	12:20	1.34	21/02/2008	11:45	5.98	06/03/2008	12:28	1.82
SP	5.20		01/02/2008	08:00	0.54	27/02/2008	16:15	0.70	07/03/2008	10:45	0.68
SP	13.10		01/02/2008	11:55	6.61	22/02/2008	13::55	6.67	06/03/2008	11:46	6.75
SP	11.50		01/02/2008	11:10	8.91	22/02/2008	09:00	9.07	06/03/2008	11:23	9.16
SP	4.10		01/02/2008	11:45	1.31	21/02/2008	15:30	1.32	06/03/2008	10:50	1.33
SP	10.40		01/02/2008	11:43	1.35	21/02/2008	14:40	1.40	06/03/2008	12:05	1.56
SP	7.40		01/02/2008	11:35	3.49	21/02/2008	13:05	2.31	06/03/2008	10:57	2.67
SP	2.20		01/02/2008	11:30	0.65	21/02/2008	12:25	0.85	06/03/2008	11:00	0.90
SP	10.00		01/02/2008	10:40	2.30	21/02/2008	13:45	2.24	06/03/2008	10:40	2.16
SP	6.80		01/02/2008	10:55	0.70	25/02/2008	10:30	1.00	06/03/2008	14:24	1.06
SP	11.20		01/02/2008	10:50	1.34	25/02/2008	11:20	1.33	06/03/2008	14:18	1.47
SP	5.90		01/02/2008	10:45	0.87	25/02/2008	12:00	0.89	06/03/2008	14:15	1.00
SP	12.20		01/02/2008	10:25	1.45	25/02/2008	12:30	1.60	06/03/2008	12:30	1.60
SPIE	15.20		01/02/2008	10:35	2.27	25/02/2008	12:49	2.31	06/03/2008	14:00	2.42
SPIE	15.00		31/01/2008	16:20	0.61	26/02/2008	11:15	0.51	07/03/2008	10:25	0.66
SPIE	21.00		01/01/1900	08:20	-0.26	26/02/2008	11:30	-0.26	07/03/2008	10:17	0.05
SPIE	20.00		01/02/2008	08:25	0.19	26/02/2008	11:41	0.49	07/03/2008	10:14	0.68
SPIE	14.90		01/02/2008	15:20	8.49	27/02/2008	17:15	12.23	07/03/2008	14:45	13.18
SPIE	20.40		31/01/2008	15:55	3.67	26/02/2008	11:57	4.19	07/03/2008	10:05	4.84
SPIE	15.00		31/01/2008	15:45	1.07	26/02/2008	12:03	1.73	07/03/2008	09:55	2.34
SPIE	10.00		31/01/2008	15:30	9.99	26/02/2008	14:42	DRY	07/03/2008	09:45	DRY
SPIE	10.00		31/01/2008	15:30	9.99	26/02/2008	14:42	DRY	07/03/2008	09:45	
	Instate Type SPIE SPIE SPIE SPIE SPIE SPIE SPIE SPI	Installation Det	Installation Details Type	Installation Details	Type	Installation Details	Type	Installation Details	Installation Details	Installation Details	Installation Details

Approved by: Recorded by: S Davis Checked by: I Swain I Swain 30/01/08-07/03/08 Date: 16/04/2008 17/04/2008 Date: Date: SI GWR 2.03 07/01/2008 Form No. Revision No. Issue Date



Project Name New M4 Preliminary Ground Investigation
Project No. F15056

Engineer Ove Arup & Partners Ltd

Client Transport Wales, Welsh Assembly
Government

Groundwater Readings
For Installations

Fig no.

02

NOTES: SPIE=Piezometer, SP=Standpipe

For multiple installations, use different Installation IDs.

For piezometers installation depth = tip depth. For standpipes = base of pipe

COMMENTS

Unable to locate LGBH05 and RBBH08. LGBH06 was blocked All groundwater levels are recorded from ground level

Exploratory Hole ID SBHP01 RC SBHP02 RC SBHP03 RC SBHQ01 RC SBHQ02 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23 SWSJ34	Type SPIE SPIE SPIE SPIE SPIE SPIE SPIE SPIE SPIE SP SP	Depth m 8.00 9.80 5.00 11.80 6.00 11.00 8.00 7.35	ID	Date dd/mm/yyyy 31/01/2008 31/01/2008 31/01/2008 31/01/2008 31/01/2008	Time hh:mm 14:50 13:55 13:40 14:20	Reading m DRY 7.20 4.09	Date dd/mm/yyyy 26/02/2008 26/02/2008	Time hh:mm 14:12 13:59	Reading m DRY 8.09	Date dd/mm/yyyy 07/03/2008	Time hh:mm 09:35	Reading m DRY
SBHP01 RC SBHP02 RC SBHP03 RC SBHQ01 RC SBHQ02 RC SBHQ03 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SPIE SPIE SPIE SPIE SPIE SPIE	8.00 9.80 5.00 11.80 6.00 11.00 8.00 7.35	U U	31/01/2008 31/01/2008 31/01/2008 31/01/2008 31/01/2008	14:50 13:55 13:40	7.20 4.09	26/02/2008 26/02/2008	14:12	DRY	07/03/2008	09:35	1
SBHP02 RC SBHP03 RC SBHQ01 RC SBHQ02 RC SBHQ03 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SPIE SPIE SPIE SPIE SPIE SPIE	9.80 5.00 11.80 6.00 11.00 8.00 7.35		31/01/2008 31/01/2008 31/01/2008 31/01/2008	13:55 13:40	7.20 4.09	26/02/2008					DRY
SBHP03 RC SBHQ01 RC SBHQ02 RC SBHQ03 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SPIE SPIE SPIE SPIE SPIE SPIE	5.00 11.80 6.00 11.00 8.00 7.35		31/01/2008 31/01/2008 31/01/2008	13:40	4.09		13:59	8.09	07/02/2000	00.40	
SBHQ01 RC SBHQ02 RC SBHQ03 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SPIE SPIE SPIE SPIE SP SP	11.80 6.00 11.00 8.00 7.35		31/01/2008 31/01/2008			26 /02 /2000			07/03/2008	09:10	8.25
SBHQ02 RC SBHQ03 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SPIE SPIE SPIE SP	6.00 11.00 8.00 7.35		31/01/2008	14:20		26/02/2008	13:48	4.76	07/03/2008	09:05	4.78
SBHQ03 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SPIE SP SP	11.00 8.00 7.35				5.76	26/02/2008	12:46	6.74	07/03/2008	09:30	7.20
SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SP SP	8.00 7.35		21 /01 /2000	14:15	4.98	26/02/2008	12:59	5.16	07/03/2008	09:25	5.98
SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SP SP	7.35		31/01/2008	13:20	6.04	26/02/2008	13:29	7.22	07/03/2008	08:38	7.59
SWSJ08 SWSJ13 SWSJ21 SWSJ23	SP SP			31/01/2008	13:05	4.35	26/02/2008	13:36	6.18	07/03/2008	08:55	6.94
SWSJ13 SWSJ21 SWSJ23	SP			31/01/2008	13:00	3.89	26/02/2008	13:16	4.40	07/03/2008	08:25	4.63
SWSJ21 SWSJ23		3.30		01/02/2008	12:30	0.42	21/02/2008	11:45	0.37	06/03/2008	12:35	0.41
SWSJ23	SP	2.50		01/02/2008	12:00	DRY	22/02/2008	13:45	DRY	06/03/2008	11:50	DRY
		6.00		01/02/2008	11:20	3.87	22/02/2008	09:30	5.72	06/03/2008	11:27	6.59
SWSJ34	SP	7.80		01/02/2008	11:22	5.92	22/02/2008	09:55	6.62	06/03/2008	11:30	6.97
	SP	6.00		01/02/2008	11:05	2.52	22/02/2008	10:55	3.33	06/03/2008	11:10	3.08
SWSJ37	SP	5.60		01/02/2008	11:25	0.46	22/02/2008	11:30	0.55	06/03/2008	11:15	0.61
LGBH02	SP	8.88					22/02/2008	14:35	7.50	06/03/2008	11:40	7.52
LGBH03	SP	8.90					22/02/2008	14:21	7.20	06/03/2008	11:44	7.28
LGBH04	SP	10.50					22/02/2008	10:30	8.87	06/03/2008	11:20	9.00
LGBH09	SP	7.00					22/02/2008	12:40	1.13	06/03/2008	10:48	1.56
LGBH10	SP	14.60					27/02/2008	14:30	8.15	06/03/2008	11:12	8.21
LGBH11	SP	11.20					27/02/2008	10:00	7.05	06/03/2008	11:03	7.07
LGBH12	SP	7.05					22/02/2008	13:10	1.40	06/03/2008	10:45	1.40
RBBH07	SP	6.25					27/02/2008	12.15	0.69	06/03/2008	12:20	0.71
RBBH09	SP	7.05					27/02/2008	13:40	1.25	06/03/2008	12:25	1.21
RBBH10	SP	6.85					27/02/2008	13:00	0.68	06/03/2008	12:30	0.82

Checked by: I Swain Recorded by: S Davis Approved by: I Swain 30/01/08-07/03/08 Date: 16/04/2008 Date: 17/04/2008 Date: SI GWR 2.03 07/01/2008 Form No. Revision No. Issue Date



Project Name New M4 Preliminary Ground Investigation
Project No. F15056
Engineer Ove Arup & Partners Ltd

Client Transport Wales, Welsh Assembly
Government

Groundwater Readings
For Installations

Fig no.

NOTES: SPIE=Piezometer, SP=Standpipe

For multiple installations, use different Installation IDs.

For piezometers installation depth = tip depth. For standpipes = base of pipe

COMMENTS SBHM01 RC installation extends 0.50m above ground level. - symbol indicates water level is above GL

All groundwater levels are recorded from ground level

				els are recor	ded from	n ground						
	Insta	llation Det	ails		1			ed Water Lev				
Exploratory Hole ID	Туре	Depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
		m		dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m
SBHC01 RC	SPIE	8.05		20/03/2008	16:30	2.57	04/04/2008	08:00	2.59	18/04/2008	07:40	2.66
SBHD03 CP	SPIE	10.00		20/03/2008	16:45	0.58	04/04/2008	08:13	0.53	18/04/2008	08:00	0.60
SBHD05 RC	SPIE	12.00		20/03/2008	16:00	1.08	04/04/2008	09:15	1.22	18/04/2008	08:30	1.32
SBHD06 RC	SP	15.00		20/03/2008	17:55	1.20	04/04/2008	09:30	1.33	18/04/2008	08:40	1.44
SBHD08 RC	SPIE	29.50		19/03/2008	18:30	1.28	04/04/2008	10:00	1.39	18/04/2008	08:52	1.52
SBHE02RD	SPIE	25.00		20/03/2008	16:20	2.23	04/04/2008	08:50	2.46	18/04/2008	09:00	2.54
SBHE04 RC	SPIE	17.20		20/03/2008	15:45	2.20	04/04/2008	09:00	1.80	18/04/2008	08:15	1.80
SBHF01 RC	SPIE	19.00		20/03/2008	15:30	5.50	04/04/2008	08:40	5.55	18/04/2008	13:58	5.58
SBHF02A CP	SPIE	17.00		20/03/2008	15:10	5.60	04/04/2008	10:28	5.70	18/04/2008	13:45	5.77
SBHF03 RC	SPIE	18.00		20/03/2008	14:55	7.20	04/04/2008	10:36	7.38	18/04/2008	13:40	7.42
SBHH01 RC	SPIE	25.00		20/03/2008	14:25	3.60	04/04/2008	15:00	3.60	18/04/2008	13:10	3.62
SBHH02 RC	SPIE	14.90		20/03/2008	14:30	4.27	04/04/2008	15:05	3.64	18/04/2008	13:13	3.70
SBHH05 RC	SPIE	21.50		20/03/2008	17:30	2.17	04/04/2008	15:15	2.78	18/04/2008	11:34	2.90
SBHH06 CP	SP	12.30		17/03/2008	15:20	3.88	04/04/2008	15:20	3.89	17/04/2008	14:15	3.90
SBHH07A RC	SPIE	24.85		20/03/2008	13:55	1.33	04/04/2008	15:28	1.92	18/04/2008	11:43	0.88
SBHJ01 CP	SP	7.50		19/03/2008	14:15	1.81	03/04/2008	16:05	1.90	17/04/2008	12:40	1.80
SBHJ03 CP	SP	5.20		19/03/2008	16:40	0.78	03/04/2008	18:25	0.82	17/04/2008	15:55	0.80
SBHJ04	SP	13.10		17/03/2008	13:35	6.64	03/04/2008	18:10	6.74	17/04/2008	13:08	6.80
SBHJ05	SP	11.50		18/03/2008	13:50	9.02	03/04/2008	17:39	9.10	17/04/2008	13:31	9.11
SBHJ06 CP	SP	4.10		17/03/2008	12:55	1.29	03/04/2008	17:43	1.33	17/04/2008	15:05	1.20
SBHJ07 CP	SP	10.40		17/03/2008	10:25	1.59	03/04/2008	17:47	1.50	17/04/2008	13:58	1.47
SBHJ08A CP	SP	7.40		18/03/2008	10:00	2.50	03/04/2008	17:55	2.50	17/04/2008	15:33	2.50
SBHJ09 CP	SP	2.20		18/03/2008	10:25	0.69	03/04/2008	17:58	0.82	17/04/2008	15:22	0.90
SBHJ10 CP	SP	10.00		17/03/2008	09:15	2.10	03/04/2008	17:50	2.00	17/04/2008	13:55	2.00
SBHK01 CP	SP	6.80		19/03/2008	10:45	0.88	03/04/2008	16:40	1.00	17/04/2008	11:40	0.94
SBHK02 CP	SP	11.20		19/03/2008	11:15	1.46	03/04/2008	16:45	1.48	17/04/2008	11:43	1.46
SBHK03 CP	SP	5.90		19/03/2008	11:45	1.04	03/04/2008	16:48	1.07	17/04/2008	11::46	0.98
SBHK04 CP	SP	12.20		19/03/2008	12:15	1.64	03/04/2008	16:52	1.67	17/04/2008	12:05	1.60
SBHL02 RC	SPIE	15.20		19/03/2008	12:50	2.44	03/04/2008	17:00	2.45	17/04/2008	12:00	2.45
SBHL03 RC	SPIE	15.00		20/03/2008	13:25	0.76	08/04/2008	15:40	0.64	18/04/2008	09:50	0.62
SBHM01 RC	SPIE	21.00		20/03/2008	13:05	-0.21	08/04/2008	15:48	-0.45	18/04/2008	11:55	0.01
SBHM02 RC	SPIE	20.00		20/03/2008	13:10	0.61	08/04/2008	15:52	0.61	18/04/2008	11:50	0.61
SBHN01A RC	SPIE	14.90		20/03/2008	12:55	12.14	08/04/2008	16:05	12.58	18/04/2008	12:48	13.27
SBHN02 RC	SPIE	20.40		20/03/2008	12:45	4.26	08/04/2008	16:12	2.64	18/04/2008	12:45	4.85
SBHN03 RC	SPIE	15.00		20/03/2008	12:30	1.60	08/04/2008	16:17	2.07	18/04/2008	12:35	2.37
SBHN04 RC	SPIE	10.00		20/03/2008	12:10	DRY	08/04/2008	16:28	DRY	18/04/2008	10:55	DRY
			<u> </u>	, ,	I	L	, , ====			, ,===3		L

Approved by: Recorded by: S Davis Checked by: I Swain I Swain 17/03/08-17/04/08 Date: 21/04/2008 21/04/2008 Date: Date: SI GWR 2.03 07/01/2008 Form No. Revision No. Issue Date



Project Name New M4 Preliminary Ground Investigation
Project No. F15056

Engineer Ove Arup & Partners Ltd

Client Transport Wales, Welsh Assembly
Government

Groundwater Readings
For Installations

Fig no.

NOTES: SPIE=Piezometer, SP=Standpipe

For multiple installations, use different Installation IDs.

For piezometers installation depth = tip depth. For standpipes = base of pipe

COMMENTS

Unable to locate LGBH05 and RBBH08. LGBH06 was blocked All groundwater levels are recorded from ground level

		llation Det		eis die lecoi		<u> </u>		ed Water Lev	vel			
Exploratory Hole ID	_	Depth		Date	Time	Reading	Date	Time	Reading	Date	Time	Readin
	Type	m	ID	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m
SBHP01 RC	SPIE	8.00		20/03/2008	12:00	DRY	08/04/2008	16:40	DRY	18/04/2008	10:45	DRY
SBHP02 RC	SPIE	9.80		20/03/2008	11:45	5.59	08/04/2008	16:55	7.98	18/04/2008	10:30	8.20
SBHP03 RC	SPIE	5.00		20/03/2008	11:40	2.80	08/04/2008	16:50	DRY	18/04/2008	10:25	4.93
SBHQ01 RC	SPIE	11.80		20/03/2008	10:40	6.72	08/04/2008	17:13	7.24	18/04/2008	10:10	7.48
SBHQ02 RC	SPIE	6.00		20/03/2008	10:45	4.91	08/04/2008	17:10	DRY	18/04/2008	10:05	DRY
SBHQ03 RC	SPIE	11.00		20/03/2008	10:50	6.76	08/04/2008	17:05	7.69	18/04/2008	10:15	8.00
SBHQ04 RC	SPIE	8.00		20/03/2008	11:30	6.97	08/04/2008	17:02	DRY	18/04/2008	10:40	DRY
SBHQ06 RC	SPIE	7.35		20/03/2008	11:20	4.47	08/04/2008	17:20	6.63	18/04/2008	12:20	4.79
SWSJ08	SP	3.30		19/03/2008	15:10	0.44	03/04/2008	16:00	0.46	17/04/2008	12:35	0.42
SWSJ13	SP	2.50		17/03/2008	13:25	DRY	03/04/2008	18:12	DRY	17/04/2008	13:12	DRY
SWSJ21	SP	6.00		18/03/2008	14:30	4.42	03/04/2008	17:33	5.89	17/04/2008	13:32	6.50
SWSJ23	SP	7.80		18/03/2008	15:05	7.58	03/04/2008	17:35	7.20	17/04/2008	13:35	7.20
SWSJ34	SP	6.00		19/03/2008	08:55	2.36	03/04/2008	17:23	3.26	17/04/2008	13:46	DRY
SWSJ37	SP	5.60		18/03/2008	11:15	0.55	03/04/2008	17:25	0.67	17/04/2008	13:42	0.63
LGBH02	SP	8.88		17/03/2008	12:55	7.48	03/04/2008	18:05	7.46	17/04/2008	13:00	7.48
LGBH03	SP	8.90		17/03/2008	13:15	7.24	03/04/2008	18:08	7.32	17/04/2008	13:03	7.30
LGBH04	SP	10.50		18/03/2008	13:20	8.87	03/04/2008	17:40	8.90	17/04/2008	13:29	8.94
LGBH09	SP	7.00		17/03/2008	11:00	1.08	03/04/2008	17:45	1.15	17/04/2008	15:08	1.05
LGBH10	SP	14.60		18/03/2008	15:20	8.31	03/04/2008	17:27	8.20	17/04/2008	13:40	8.70
LGBH11	SP	11.20		18/03/2008	11:40	6.88	03/04/2008	17:18	7.00	17/04/2008	15:38	7.08
LGBH12	SP	7.05		17/03/2008	10:00	1.30	03/04/2008	17:49	1.47	17/04/2008	15:15	1.36
RBBH07	SP	6.25		19/03/2008	13:25	0.66	03/04/2008	15:50	0.68	17/04/2008	12:30	1.10
RBBH09	SP	7.05		19/03/2008	14:40	1.18	03/04/2008	16:07	1.21	17/04/2008	12:42	1.25
RBBH10	SP	6.85		19/03/2008	13:45	0.70	03/04/2008	16:03	0.75	17/04/2008	12:39	0.78
ecorded by:				ecked by:			roved by:					

Recorded by: Checked by: S Davis I Swain Approved by: I Swain 17/03/08-17/04/08 Date: 21/04/2008 Date: 21/04/2008 Date: SI GWR 2.03 07/01/2008 Form No. Revision No. Issue Date



GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

M4 CORRIDOR AROUND NEWPORT SITE:



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH545	17/04/15 09:00:00	1022	-1.05								0.0	8		36 litres purged, base depth 12.50m.
BH545	17/04/15 09:01:00										0.0			12.50m.
BH545	17/04/15 09:02:00										0.0			
BH545	17/04/15 09:03:00										0.0			
BH545	17/04/15 09:04:00										0.0			
BH545	17/04/15 09:05:00			2.8	0.1	18.0	1.0	0	0	5.4				
BH545	17/04/15 09:06:00			2.8	0.1	17.9	1.0	0	0	5.1				
BH545	17/04/15 09:07:00			2.8	0.1	17.9	1.0	0	0	6.3				
BH545	17/04/15 09:08:00			2.8	0.1	17.9	1.0	0	0	6.1				
BH545	17/04/15 09:09:00			2.8	0.1	17.9	1.0	0	0	5.8				
BH545	17/04/15 09:10:00			2.8	0.1	17.9	1.0	0	0	5.5				
BH545	17/04/15 09:11:00			2.8	0.1	17.9	1.0	0	0	5.3				
BH545	17/04/15 09:12:00			2.8	0.1	17.9	1.0	0	0	4.9				
BH545	17/04/15 09:13:00			2.8	0.1	17.9	1.0	0	0	4.6				
BH545	17/04/15 09:14:00			2.7	0.1	17.9	1.0	0	0	4.4			6.35	
BH545	24/04/15 10:00:00	1015	-1.1								0.0	12		35 litres purged, base depth 12.50m.
BH545	24/04/15 10:01:00										0.0			12.00111.
BH545	24/04/15 10:02:00										0.0			
remarks														CONTRACT CHECKED

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT

30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

M4 CORRIDOR AROUND NEWPORT SITE:



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remark	S
BH545	24/04/15 10:03:00										0.0				
BH545	24/04/15 10:04:00										0.0				
BH545	24/04/15 10:05:00			0.1	0.1	20.6	1.0	0	0	2.5					
BH545	24/04/15 10:06:00			1.1	0.1	19.4	1.0	0	0	4.3					
BH545	24/04/15 10:07:00			1.9	0.1	18.3	1.0	0	0	5.0					
BH545	24/04/15 10:08:00			2.3	0.1	17.6	1.0	0	0	4.9					
BH545	24/04/15 10:09:00			2.4	0.1	17.4	1.0	0	0	4.8					
BH545	24/04/15 10:10:00			2.4	0.1	17.4	1.0	0	0	4.6					
BH545	24/04/15 10:11:00			2.5	0.1	17.3	1.0	0	0	4.5					
BH545	24/04/15 10:12:00			2.6	0.1	17.2	1.0	0	0	4.2					
BH545	24/04/15 10:13:00			2.7	0.1	17.1	1.0	0	0	4.0					
BH545	24/04/15 10:14:00			2.7	0.1	17.0	1.0	0	0	3.9			6.65		
BH545	01/05/15 08:30:00	1014	-0.51								0.0	8		33 litres purged, bas 12.50m.	se depth
BH545	01/05/15 08:31:00										0.0				
BH545	01/05/15 08:32:00										0.0				
BH545	01/05/15 08:33:00										0.0				
BH545	01/05/15 08:34:00										0.0				
BH545	01/05/15 08:35:00			2.7	0.0	18.3	0.0	0	0	3.4					
remarks	esult exceeding capacity of								1	l	l			CONTRACT	CHECKE

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT

30238 EC

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

M4 CORRIDOR AROUND NEWPORT SITE:



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH545	01/05/15 08:36:00			2.7	0.0	18.2	0.0	0	0	3.8				
BH545	01/05/15 08:37:00			2.7	0.0	18.2	1.0	0	0	3.8				
BH545	01/05/15 08:38:00			2.7	0.0	18.2	1.0	0	0	3.8				
BH545	01/05/15 08:39:00			2.8	0.0	18.2	1.0	0	0	3.7				
BH545	01/05/15 08:40:00			2.8	0.0	18.2	1.0	0	0	3.6				
BH545	01/05/15 08:41:00			2.9	0.0	18.3	1.0	0	0	3.3				
BH545	01/05/15 08:42:00			2.9	0.0	18.3	1.0	0	0	3.2				
BH545	01/05/15 08:43:00			2.9	0.0	18.3	1.0	0	0	2.9				
BH545	01/05/15 08:44:00			2.9	0.0	18.3	1.0	0	0	2.7			6.85	
BH545	11/05/15 11:37:00	1021	0								0.0	16		
BH545	11/05/15 11:38:00										0.0			
BH545	11/05/15 11:39:00										0.0			
BH545	11/05/15 11:40:00										0.0			
BH545	11/05/15 11:41:00										0.0			
BH545	11/05/15 11:42:00			0.1	0.0	19.3	0.0	0	0	0.4				
BH545	11/05/15 11:43:00			0.1	0.0	19.2	0.0	0	0	0.5				
BH545	11/05/15 11:44:00			0.2	0.0	19.2	0.0	0	0	0.6				
BH545	11/05/15 11:45:00			0.2	0.0	19.1	0.0	0	0	0.7				
remarks														CONTRACT CHECKE

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT

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GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

M4 CORRIDOR AROUND NEWPORT SITE:



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks	
BH545	11/05/15 11:46:00			0.3	0.0	19.0	0.0	0	0	0.8					
BH545	11/05/15 11:47:00			0.4	0.0	19.0	0.0	0	0	0.9					
BH545	11/05/15 11:48:00			0.5	0.0	18.9	0.0	0	0	1.0					
BH545	11/05/15 11:49:00			0.6	0.0	18.9	0.0	0	0	1.0					
BH545	11/05/15 11:50:00			0.7	0.0	18.7	0.0	0	0	1.0					
BH545	11/05/15 11:51:00			0.8	0.0	18.7	0.0	0	0	1.1					
BH545	11/05/15 11:52:00												7.82		
remarks		<u> </u>												CONTRACT	HECKED

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT

30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

M4 CORRIDOR AROUND NEWPORT SITE:



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH549	17/04/15 10:00:00	1021	-0.73								0.0	12		25 litres purged, base depth
BH549	17/04/15 10:01:00										0.0			12.00m.
BH549	17/04/15 10:02:00										0.0			
BH549	17/04/15 10:03:00										0.0			
BH549	17/04/15 10:04:00										0.0			
BH549	17/04/15 10:05:00			1.3	0.1	18.0	1.0	0	3	9.2				
BH549	17/04/15 10:06:00			1.3	0.1	18.1	1.0	0	3	8.6				
BH549	17/04/15 10:07:00			1.3	0.1	18.1	1.0	0	3	7.9				
BH549	17/04/15 10:08:00			1.3	0.1	18.1	1.0	0	3	7.4				
BH549	17/04/15 10:09:00			1.3	0.1	18.1	1.0	0	3	7.2				
BH549	17/04/15 10:10:00			1.3	0.1	18.1	1.0	0	3	7.1				
BH549	17/04/15 10:11:00			1.3	0.1	18.1	1.0	0	3	6.9				
BH549	17/04/15 10:12:00			1.3	0.1	18.2	1.0	0	3	6.9				
BH549	17/04/15 10:13:00			1.3	0.1	18.2	1.0	0	2	6.9				
BH549	17/04/15 10:14:00			1.3	0.1	18.2	1.0	0	2	6.9			7.68	
BH549	24/04/15 11:00:00	1011	0								0.0	13		17 litres purged, base depth 12.00m.
BH549	24/04/15 11:01:00										0.0			12.00111.
BH549	24/04/15 11:02:00										0.0			

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Deep install.

CONTRACT 30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

M4 CORRIDOR AROUND NEWPORT SITE:



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH549	24/04/15 11:03:00										0.0			
BH549	24/04/15 11:04:00										0.0			
BH549	24/04/15 11:05:00			0.8	0.1	19.8	1.0	0	2	4.7				
BH549	24/04/15 11:06:00			0.8	0.1	19.8	1.0	0	1	4.6				
BH549	24/04/15 11:07:00			0.8	0.1	19.8	1.0	0	1	4.5				
BH549	24/04/15 11:08:00			0.7	0.1	19.8	1.0	0	1	4.5				
BH549	24/04/15 11:09:00			0.7	0.1	19.8	1.0	0	1	4.4				
BH549	24/04/15 11:10:00			0.7	0.1	19.8	1.0	0	1	4.3				
BH549	24/04/15 11:11:00			0.7	0.1	19.8	1.0	0	1	4.3				
BH549	24/04/15 11:12:00			0.7	0.1	19.8	1.0	0	0	4.2				
BH549	24/04/15 11:13:00			0.7	0.1	19.8	1.0	0	0	4.2				
BH549	24/04/15 11:14:00			0.7	0.1	19.7	1.0	0	0	4.2			9.12	
BH549	01/05/15 09:30:00	1013	-1.09								0.0	8		24 litres purged, base depth 12.00m.
BH549	01/05/15 09:31:00										0.0			12.00111.
BH549	01/05/15 09:32:00										0.0			
BH549	01/05/15 09:33:00										0.0			
BH549	01/05/15 09:34:00										0.0			
BH549	01/05/15 09:35:00			0.9	0.0	19.6	0.0	0	0	3.7				

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Deep install.

CONTRACT 30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks	
BH549	01/05/15 09:36:00			0.8	0.0	19.7	0.0	0	0	3.4					
BH549	01/05/15 09:37:00			0.8	0.0	19.8	1.0	0	0	3.3					
BH549	01/05/15 09:38:00			0.8	0.0	19.8	1.0	0	0	3.3					
BH549	01/05/15 09:39:00			0.8	0.0	19.8	1.0	0	0	3.3					
BH549	01/05/15 09:40:00			0.8	0.0	19.8	1.0	0	0	3.2					
BH549	01/05/15 09:41:00			0.8	0.0	19.8	1.0	0	0	3.2					
BH549	01/05/15 09:42:00			0.8	0.0	19.8	1.0	0	0	3.1					
BH549	01/05/15 09:43:00			0.8	0.0	19.8	1.0	0	0	3.1					
BH549	01/05/15 09:44:00			0.8	0.0	19.8	1.0	0	0	3.1			7.89		
BH549	11/05/15 13:38:00	1020	2								0.4	16			
BH549	11/05/15 13:39:00										0.0				
BH549	11/05/15 13:40:00										0.0				
BH549	11/05/15 13:41:00										0.0				
BH549	11/05/15 13:42:00										0.0				
BH549	11/05/15 13:43:00			0.9	0.0	18.5	0.0	0	0	1.2					
BH549	11/05/15 13:44:00			0.6	0.0	19.1	0.0	0	0	0.7					
BH549	11/05/15 13:45:00			0.3	0.0	19.4	0.0	0	0	0.4					
BH549	11/05/15 13:46:00			0.2	0.0	19.6	0.0	0	0	0.3					
remarks														CONTRACT	ECKED

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Deep install.

CONTRACT 30238

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks	
BH549	11/05/15 13:47:00			0.2	0.0	19.5	0.0	0	0	0.5					
BH549	11/05/15 13:48:00			0.2	0.0	19.6	0.0	0	0	0.4					
BH549	11/05/15 13:49:00			0.2	0.0	19.6	0.0	0	0	0.6					
BH549	11/05/15 13:50:00			0.2	0.0	19.6	0.0	0	0	0.7					
BH549	11/05/15 13:51:00			0.2	0.0	19.6	0.0	0	0	0.7					
BH549	11/05/15 13:52:00			0.2	0.0	19.6	0.0	0	0	0.7					
BH549	11/05/15 13:53:00												8.95		
remarks														CONTRACT	HECKED

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

Deep install.

CONTRACT 30238

Appendix 3

Soil Laboratory Data

Soil Analysis Results & Screening Assessment CL-33 08/07/2015

Geological Formation Legend
MG Made Ground

Sample Reference Specimen Depth (m)		STPN03 0.3	STPN03 1	STPN04 0.3	STPN04 1
OD Level (m) Sample Type		20.39 B	19.69 ES	17.33 D	16.63 ES
Geology Code	Units	MG	MG	MG	MG
Cluster Code		2007 GI	2007 GI	2007 GI	2007 GI
Metals Antimony	mg/kg	1.8	2.2	2.4	1.8
Arsenic	mg/kg	8	8	7	<3
Barium Boron Water Soluble	mg/kg mg/kg	66 <3.5	77 <3.5	63 <3.5	83 <3.5
Cadmium	mg/kg	0.4	<0.3	<0.3	<0.3
Chromium Copper	mg/kg mg/kg	30 13	35 14	35 50	29 22
Lead	mg/kg	40	21	17	20
Mercury Molybdenum	mg/kg mg/kg	<0.6 <0.6	<0.6 <0.6	<0.6 <0.6	<0.6 <0.6
Nickel	mg/kg	22	30	21	19
Selenium Zinc	mg/kg mg/kg	<3 110	<3 96	<3 83	<3 81
Cyanide (total) Cyanide (free)	mg/kg mg/kg	<1	<1	<1	<1
Sulphate (soluble)	g/l	0.005	0.013	0.009	0.046
Other Asbestos Presence Screen	None	NFD	NFD	NFD	NFD
Asbestos Identification	%	NID	NID	NID	NID
Loss on Ignition Total Organic Carbon	% %	3.4		3 0.5	0.6
pH Value	pH Units	8.29	8.27	7.86	7.97
Material >2mm Organics	%				
PCBs (vs Aroclor 1254)	mg/kg	<0.02	<0.02	0.046	<0.035
PCB 105 PCB 114	mg/kg mg/kg				
PCB 123	mg/kg				
PCB 126 PCB 157	mg/kg mg/kg				
PCB 167	mg/kg				
PCB 169 PCB 189	mg/kg mg/kg				
PCB 77	mg/kg				_
PCB 81 Pcb-118 2,3',4,4',5 - Pentachlorobiphenyl	mg/kg mg/kg				
Pcb-156 2,3,3,4,4,5 - Hexachlorobiphenyl Phenols (total)	mg/kg	∠0.1E	<0.1E	<0.15	∠0.1E
Phenois (total) BTEX	mg/kg	<0.15	<0.15	~V.13	<0.15
GRO (C4-C12) MTBE	mg/kg mg/kg	<0.01 <0.01	<0.01 <0.01	<0.01 <0.01	<0.01 <0.01
Benzene	mg/kg	<0.01	<0.01	<0.01	<0.01
Toluene Ethyl benzene	mg/kg mg/kg	<0.01 <0.01	<0.01 <0.01	<0.01 <0.01	<0.01 <0.01
m & p Xylene	mg/kg	<0.01	<0.01	<0.01	<0.01
o Xylene TPH	mg/kg	<0.01	<0.01	<0.01	<0.01
TPH >C6-C8.	mg/kg	<0.01	<0.01	<0.01	<0.01
TPH >C8-C10. TPH >C10-C12.	mg/kg mg/kg				
TPH >C12-C16.	mg/kg				
TPH >C16-C21. TPH >C21-C35.	mg/kg mg/kg				
Aliphatics C5-C6	mg/kg	0.5.	2.5.	0.51	
Aliphatics >C6-C8 Aliphatics >C8-C10	mg/kg mg/kg	<0.01 <0.01	<0.01 <0.01	<0.01 <0.01	<0.01 <0.01
Aliphatics >C10-C12	mg/kg	<0.01	<0.01	<0.01	<0.01
Aliphatics >C12-C16 Aliphatics >C16-C21	mg/kg mg/kg	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1
Aliphatics >C21-C35	mg/kg	<0.1 <0.1	<0.1 <0.1	1.9 1.9	2
Total Aliphatics C5-C35 Aliphatics >C35-44	mg/kg mg/kg	<0.1	₹0.1	1.9	2
Aromatics >C5-C7 Aromatics C6-C7	mg/kg	<0.01	<0.01	<0.01	<0.01
Aromatics >C7-C8	mg/kg mg/kg	<0.01 <0.01	<0.01 <0.01	<0.01 <0.01	<0.01
Aromatics >EC8-EC10 Aromatics >EC10-EC12	mg/kg mg/kg	<0.01 <0.01	<0.01 <0.01	<0.01 <0.01	<0.01 <0.01
Aromatics >EC12-EC16	mg/kg	0.23	<0.1	<0.1	<0.1
Aromatics >EC16-EC21 Aromatics >EC21-EC35	mg/kg mg/kg	0.93 16	<0.1 <0.1	0.26 12	<0.1 4.5
Total Aromatics C6-C35	mg/kg	17	<0.1	12	4.5
Aromatics >C35-44 Total Aliphatic TPH	mg/kg mg/kg				
Total Aromatic TPH	mg/kg	17	ZO 1	1.4	C 4
TPH (Aliphatics and Aromatics C5-C35) Total petroleum hydrocarbons	mg/kg ug/kg	17	<0.1	14	6.4
РАН		×0.014	0.014	0.02	ZO 014
Acenaphthene Acenaphthylene	mg/kg mg/kg	<0.014 0.007	0.014 0.009	0.02 <0.005	<0.014 <0.005
Anthracene Benz/a)anthracene	mg/kg	0.022	0.017	0.044	<0.009
Benz(a)anthracene Benzo(a)pyrene	mg/kg mg/kg	0.12 0.13	0.087 0.091	0.086 0.072	0.034 0.018
Benzo(b)fluoranthene Benzo(ghi)perylene	mg/kg mg/kg	0.16 0.11	0.15 0.065	0.091 0.058	0.036 0.018
Benzo(k)fluoranthene	mg/kg	0.1	0.06	0.035	<0.025
Chrysene Dibenzo(ah)anthracene	mg/kg mg/kg	0.21 0.023	0.11 0.017	0.083 0.015	0.022 <0.008
Fluoranthene	mg/kg	0.26	0.16	0.19	0.035
Fluorene Indeno(123cd)pyrene	mg/kg mg/kg	0.021 0.083	0.019 0.06	0.019 0.047	<0.012 0.014
Naphthalene	mg/kg	0.058	0.021	0.027	<0.01
Phenanthrene Pyrene	mg/kg mg/kg	0.2	0.11 0.11	0.17 0.15	<0.021 0.028
PAH 16 Total	mg/kg	1.7	1.1	1.1	0.21
BTEX Methyl Tertiary Butyl Ether	ug/kg	<11	<11	<11	<11
Benzene	ug/kg	<9	<9	<9	<9
Toluene Ethylbenzene	ug/kg ug/kg	<5 <4	<5 <4	<5 <4	<5 <4
p/m-Xylene	ug/kg	<14	<14	<14	<14
o-Xylene VOCs	ug/kg	<10	<10	<10	<10
1,1,1,2-Tetrachloroethane	ug/kg				
1,1,1-Trichloroethane 1,1,2-Trichloroethane	ug/kg ug/kg				
1,1-Dichloroethane	ug/kg				
1,1-Dichloroethene	ug/kg				

Screening Values and Assessment
Exceeds S4ULs criteria

Laboratory detection level higher than screening criterion

Notes

NFD = No Fibres Detected Chromium VI criteria used Elemental Mercury criteria used

Screening criterion for lead is C4SL in the absence of a S4UL

Screening cri	terion for lead is C4	SL in the absence	of a S4UL		j	
No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	Selected S4ULs Criteria	No. Data Exceeding S4ULs Criteria
4	4	2.4	1.8	STPN04 @ 0.3mbGL		
4	3 4	8 83	7 63	STPN03 @ 0.3mbGL STPN04 @ 1mbGL	170	0
4	0	None > LOD 0.4	None > LOD 0.4	STPN03 @ 0.3mbGL	190	0
4	4	35	29	STPN03 @ 1mbGL	33	2
4	4	50 40	13 17	STPN04 @ 0.3mbGL STPN03 @ 0.3mbGL	44000 1300	0
4	0	None > LOD None > LOD	None > LOD None > LOD		30	0
4	4 0	30	19	STPN03 @ 1mbGL	980 1800	0
4	4	None > LOD 110	None > LOD 81	STPN03 @ 0.3mbGL	170000	0
0	0	None > LOD None > LOD	None > LOD None > LOD			
4	4	0.046	0.005	STPN04 @ 1mbGL		
4	0	None > LOD	None > LOD			
3	3	None > LOD 3.4	None > LOD 2	STPN03 @ 0.3mbGL		
3	3	3.2 8.29	0.5 7.86	STPN03 @ 0.3mbGL STPN03 @ 0.3mbGL	6-9	0
0	0	None > LOD	None > LOD	311 NO3 @ 0.3111502	0 3	
4	1	0.046	0.046	STPN04 @ 0.3mbGL	0.24	0
0	0	None > LOD None > LOD	None > LOD None > LOD		0.24 0.24	0
0	0	None > LOD	None > LOD		0.24	0
0	0	None > LOD None > LOD	None > LOD None > LOD		0.24 0.24	0
0	0	None > LOD None > LOD	None > LOD None > LOD		0.24 0.24	0
0	0	None > LOD	None > LOD		0.24	0
0	0	None > LOD None > LOD	None > LOD None > LOD		0.24 0.24	0
0	0	None > LOD None > LOD	None > LOD None > LOD		0.24 0.24	0
4	0	None > LOD	None > LOD		440	0
4	0	None > LOD	None > LOD			
4	0	None > LOD None > LOD	None > LOD None > LOD		27	0
4	0	None > LOD	None > LOD		56000	0
4	0	None > LOD None > LOD	None > LOD None > LOD		5700 5900	0
4	0	None > LOD	None > LOD		6600	0
4	0	None > LOD	None > LOD		7800	0
0	0	None > LOD None > LOD	None > LOD None > LOD		2000 9200	0
0	0	None > LOD None > LOD	None > LOD None > LOD		10000 7600	0
0	0	None > LOD	None > LOD		7800	0
4	0	None > LOD None > LOD	None > LOD None > LOD		3200 7800	0
4	0	None > LOD None > LOD	None > LOD None > LOD		2000 9700	0
4	0	None > LOD	None > LOD		25000	0
4	2	None > LOD 2	None > LOD 1.9	STPN04 @ 1mbGL	450000 450000	0
0	0	2 None > LOD	1.9 None > LOD	STPN04 @ 1mbGL	450000	0
0	0	None > LOD	None > LOD		26000	0
4	0	None > LOD None > LOD	None > LOD None > LOD		7800 56000	0
4	0	None > LOD None > LOD	None > LOD None > LOD		3500 9200	0
4	1	0.23	0.23	STPN03 @ 0.3mbGL	10000	0
4	3	0.93 16	0.26 4.5	STPN03 @ 0.3mbGL STPN03 @ 0.3mbGL	7600 7800	0
4 0	3 0	17 None > LOD	4.5 None > LOD	STPN03 @ 0.3mbGL	7800	0
0	0	None > LOD	None > LOD		. 233	-
0 4	3	None > LOD 17	None > LOD 6.4	STPN03 @ 0.3mbGL		
0	0	None > LOD	None > LOD			
4	2 2	0.02 0.009	0.014 0.007	STPN04 @ 0.3mbGL STPN03 @ 1mbGL	29000 29000	0
4	3	0.044	0.017	STPN04 @ 0.3mbGL	150000	0
4	4	0.12 0.13	0.034 0.018	STPN03 @ 0.3mbGL STPN03 @ 0.3mbGL	49 11	0
4	4	0.16 0.11	0.036 0.018	STPN03 @ 0.3mbGL STPN03 @ 0.3mbGL	13 1400	0
4	3	0.1	0.035	STPN03 @ 0.3mbGL	370	0
4	3	0.21 0.023	0.022 0.015	STPN03 @ 0.3mbGL STPN03 @ 0.3mbGL	93 1.1	0
4	4	0.26 0.021	0.035 0.019	STPN03 @ 0.3mbGL STPN03 @ 0.3mbGL	6300 20000	0
4	4	0.083	0.014	STPN03 @ 0.3mbGL	150	0
4	3	0.058 0.2	0.021 0.11	STPN03 @ 0.3mbGL STPN03 @ 0.3mbGL	190 6200	0
4	4	0.2 1.7	0.028 0.21	STPN03 @ 0.3mbGL STPN03 @ 0.3mbGL	15000	0
				51465 & 0.5HBQL		
4	0	None > LOD None > LOD	None > LOD None > LOD		27	0
4	0	None > LOD None > LOD	None > LOD None > LOD		56000 5700	0
4	0	None > LOD	None > LOD			
4	0	None > LOD	None > LOD		6600	0
0	0	None > LOD	None > LOD			
0	0	None > LOD None > LOD	None > LOD None > LOD			
0	0	None > LOD None > LOD	None > LOD None > LOD		 	
0	0	None > LOD	None > LOD		l	

M4CAN Soil Analysis Results & Screening Assessment CL-33 08/07/2015 Geological Formation Legend

MG Made Ground

Sample Reference Specimen Depth (m)		0.3	STPN03 1	STPN04 0.3	STPN04 1
OD Level (m)		20.39	19.69	17.33	16.63
Sample Type		В	ES	D	ES
Geology Code	Units	MG	MG	MG	MG
Cluster Code		2007 GI	2007 GI	2007 GI	2007 GI
1,2,3-Trichlorobenzene	ug/kg				
1,2,3-Trichloropropane 1,2,4-Trichlorobenzene	ug/kg ug/kg				
1,2,4-Trimethylbenzene	ug/kg ug/kg				
1,2-Dibromo-3-Chloropropane	ug/kg				
1,2-Dibromoethane	ug/kg				
1,2-Dichlorobenzene	ug/kg				
1,2-Dichloroethane 1,2-Dichloropropane	ug/kg ug/kg				
1,3,5-Trimethylbenzene	ug/kg ug/kg				
1,3-Dichlorobenzene	ug/kg				
1,3-Dichloropropane	ug/kg				
1,4-Dichlorobenzene 2-Chlorotoluene	ug/kg				
4-Chlorotoluene	ug/kg ug/kg				
4-Isopropyltoluene	ug/kg				
Benzene	ug/kg				
Bromobenzene	ug/kg				
Bromochloromethane Bromodichloromethane	ug/kg				
Bromomethane	ug/kg ug/kg				
Chlorobenzene	ug/kg				
Chloroethane	ug/kg	ļ			
Chloroethene Chloroform	ug/kg				
Chloroform	ug/kg ug/kg				
cis-1,2-Dichloroethene	ug/kg	<u></u>	<u></u>		
cis-1,3-Dichloropropene	ug/kg			_	
Dibromochloromethane	ug/kg				
Dibromomethane Dichlorodifluoromethane	ug/kg ug/kg				
Ethylbenzene	ug/kg ug/kg				
Hexachlorobutadiene (HCBD)	ug/kg				
Isopropylbenzene	ug/kg				
m,p xylenes	ug/kg				
Methyl tert-butyl ether (MTBE) n-Butylbenzene	ug/kg ug/kg				
n-propylbenzene	ug/kg				
O-Xylene	ug/kg				
Sec-Butylbenzene	ug/kg				
Styrene Tert-Butylbenzene	ug/kg ug/kg				
Tetrachloroethene	ug/kg				
Tetrachloromethane (Carbon Tetra Chlor					
Toluene	ug/kg				
trans-1,2-Dichloroethene trans-1,3-Dichloropropene	ug/kg ug/kg				
Tribromomethane	ug/kg				
Trichloroethene	ug/kg				
Trichlorofluoromethane	ug/kg				
SVOCs		T	ı		ı
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	mg/kg mg/kg				
2,4-Dichlorophenol	mg/kg				
2,4-Dimethylphenol	mg/kg				
2,4-Dinitrotoluene	mg/kg				
2,6-Dinitrotoluene	mg/kg				
2-Chloronaphthalene 2-Chlorophenol	mg/kg mg/kg				
2-Methyl-4,6-Dinitrophenol	mg/kg	<u> </u>			
2-Methylnaphthalene	mg/kg			-	
2-Methylphenol	mg/kg				
2-Nitroaniline 2-Nitrophenol	mg/kg mg/kg				
3-Nitroaniline	mg/kg	<u> </u>	<u></u>		
4-Bromophenyl Phenyl Ether	mg/kg				
4-Chloro-3-Methylphenol	mg/kg				
4-Chloroaniline 4-Chlorophenyl Phenyl Ether	mg/kg mg/kg				
4-Chlorophenyl Phenyl Ether 4-Methylphenol	mg/kg	1			
4-Nitroaniline	mg/kg				
4-Nitrophenol	mg/kg	ļ			
Azobenzene Bis(2-chloroethoxy)methane	mg/kg				
Bis(2-chloroethyl)ether	mg/kg mg/kg				
Bis(2-chloroisopropyl)ether	mg/kg				
Bis(2-ethylhexyl)phthalate	mg/kg				
Butylbenzylphthalate	mg/kg				
Carbazole Dibenzofuran	mg/kg mg/kg				
Diethylphthalate	mg/kg	1			
Dimethylphthalate	mg/kg				
Di-N-Butyl Phthalate	mg/kg				
Di-N-Octyl Phthalate	mg/kg				
Hexachlorobenzene (HCB) Hexachlorocyclopentadiene	mg/kg mg/kg				
Hexachloroethane	mg/kg	1			
Isophorone	mg/kg				
Nitrobenzene	mg/kg				
n-nitrosodimethylamine	mg/kg				
N-Nitroso-Di-N-Propylamine Pentachlorophenol (PCP)	mg/kg mg/kg				
chacinorophenoi (FCF)	mg/kg	 	1		

Screening Values and Assessment

Exceeds S4ULs criteria

X Laboratory detection level higher than screening criterion

Notes

NFD = No Fibres Detected Chromium VI criteria used Elemental Mercury criteria used

Elemental Mercury criteria used
Screening criterion for lead is C4SL in the absence of a S4UL

20	007 GI
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Appendix 4

Groundwater Laboratory Data

M4CAN
Groundwater Analysis Results & Screening Assessment
CL-33

Geological Formation Legend

AG Avon Group

M4CAN Groundwater Analysis Results & Screening Assessment CL-33			Geological Formation Le							
08/07/2015 Monitoring Round		Screenin	g Criteria	1	2	3	1	2	6	
Location Location Type	3			BH545	BH545 BH	BH545	BH549	BH549 BH	BH549	
Response Zone (RZ) Details Depth	Units	EQS	DWS	AG 6.75	AG 7.16	AG 7.34	AG 9.37	AG 11.51	AG 10.18	
Date Sampled Metals				17/04/2015	24/04/2015	01/05/2015	17/04/2015	24/04/2015	01/05/2015	
Arsenic Boron	ug/l ug/l	50 2000	10 1000	1 <20	<1 43	3.4 160	<1 <20	<1 40	1.6 47	
Cadmium Chromium Copper	ug/l ug/l ug/l	0.15	5 50 2000	<0.08 11 <1	<0.08 <1 <1	<0.08 2.5 1.6	<0.08 6.1 <1	<0.08 <1 <1	<0.08 <1 <1	
Lead Mercury	ug/l ug/l	1.2	10	<1 0.55	<1 <0.5	<1 <0.5	<1 0.51	<1 <0.5	<1 <0.5	
Nickel Selenium	ug/l ug/l	75	20 10	<1 1.6	<1 2.2	7 3.6 9.4	2.1 1.3	1.4	1.8	
Zinc Non-Metal Inorganics Total Alkalinity as CaCO3	ug/l mg/l	/5		3.1	240	440	1.9	310	<1 500	
Chloride Ammoniacal Nitrogen as N	mg/l mg/l	250 0.6	250	220 0.023	250 0.047	210 0.032	190 0.028	250 0.046	290 0.056	
Total Cyanide Free Cyanide oH Value	mg/l mg/l pH units	6-9	0.05 6.5-10	<0.05 <0.05 7.5	<0.05 <0.05 8.3	<0.05 <0.05 8	<0.05 <0.05 7.5	<0.05 <0.05 8.3	<0.05 <0.05 7.9	
Phenois Phenois Phenois	ug/l mg/l	7.7 0.0077		<0.5 <0.3	<0.3	<0.5 <0.3	<0.5 <0.3	<0.5 <0.3	<0.5 <0.3	
BTEX Benzene	ug/l	10	1	<1	<1	<1	<1	<1	<1	
Foluene Ethyl benzene m & p Xylene	ug/l ug/l ug/l	50 20 30		<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	
o Xylene TPH	ug/l	30		<1	<1	<1	<1	<1	<1	
Aliphatics C5-C6 Aliphatics >C6-C8 Aliphatics >C8-C10	ug/l ug/l 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	
Aliphatics >C10-C12 Aliphatics >C12-C16	ug/l 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	
Aliphatics >C16-C21 Aliphatics >C21-C35 Aliphatics >C25-44	ug/l 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	
Niphatics >C35-44 Nromatics >C5-C7 Nromatics >C7-C8	ug/l ug/l 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	
aromatics >EC8-EC10 aromatics >EC10-EC12	ug/l 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	
wromatics >EC12-EC16 wromatics >EC16-EC21 wromatics >EC21-EC35	ug/l ug/l 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	
romatics >C35-44 otal Aliphatic TPH	ug/l ug/l			<0.1 <5	<0.1 <5	<0.1 <5	<0.1 <5	<0.1 <5	<0.1 <5	
otal Aromatic TPH otal petroleum hydrocarbons PAH	ug/l ug/l			<5 <10	<5 <10	<5 <10	<5 <10	<5 <10	<5 <10	
Acenaphthene Acenaphthylene	ug/l 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	
Anthracene Benz(a)anthracene	ug/l ug/l	0.1	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	
Benzo(a)pyrene Benzo(b)fluoranthene Benzo(ghi)perylene	ug/l ug/l ug/l	0.00017 0.017 0.0082	0.01 0.1 0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	
enzo(k)fluoranthene hrysene	ug/l ug/l	0.017	0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	
oibenzo(ah)anthracene luoranthene luorene	ug/l ug/l ug/l	0.0063		<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	
iuorene ndeno(123cd)pyrene laphthalene	ug/I ug/I ug/I	N/A 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 <0.1 <0.1	
Phenanthrene Pyrene PAH 16 Total	ug/l ug/l			<0.1 <0.1 <2	<0.1 <0.1 <2	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1 <2	
VOCs ,1,1,2-Tetrachloroethane	ug/l	L	L	<2		<2	<2	<2	<2	
,1,1-Trichloroethane ,1,2-Trichloroethane	ug/l ug/l	100 400		<1 <10		<1 <10	<1 <10	<1 <10	<1 <10	
,1-Dichloroethane ,1-Dichloroethene ,1-Dichloropropene	ug/l ug/l ug/l			<1 <1 <1		<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	
.,2,3-Trichlorobenzene .,2,3-Trichloropropane	ug/l ug/l	0.4		<2 <50		<2 <50	<2 <50	<2 <50	<2 <50	
L,2,4-Trichlorobenzene L,2,4-Trimethylbenzene L,2-Dibromo-3-Chloropropane	ug/l ug/l ug/l	0.4		<1 <1 <50		<1 <1 <50	<1 <1 <50	<1 <1 <50	<1 <1 <50	
.,2-Dibromoethane .,2-Dichlorobenzene	ug/l ug/l	20		<5 <1		<5 <1	<5 <1	<5 <1	<5 <1	
,2-Dichloroethane ,2-Dichloropropane ,3,5-Trimethylbenzene	ug/l ug/l ug/l	10	3	<2 <1 <1		<2 <1 <1	<2 <1 <1	<2 <1 <1	<2 <1 <1	
.,3,5-1rimetnyibenzene I,3-Dichloropropane I,4-Dichlorobenzene	ug/l ug/l	20		<2 <1		<2 <1	<2 <1	<2 <1	<2 <1	
l-Chlorotoluene I-Chlorotoluene	ug/l ug/l			<1 <1		<1 <1	<1 <1	<1 <1	<1 <1	
-IsopropyItoluene Jenzene Jeromobenzene	ug/l ug/l ug/l	10	1	<1 <1 <1	<1	<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	
romochloromethane romodichloromethane	ug/l ug/l		100	<5 <5		<5 <5	<5 <5	<5 <5	<5 <5	
romomethane Chlorobenzene Chloroethane	ug/l ug/l ug/l			<5 <1 <1		<5 <1 <1	<5 <1 <1	<5 <1 <1	<5 <1 <1	
hloroethene hloroform	ug/l ug/l	2.5	100	<1 <1		<1 <1	<1 <1	<1 <1	<1 <1	
chloromethane is-1,2-Dichloroethene is-1,3-Dichloropropene	ug/l ug/l ug/l			<1 <1 <10		<1 <1 <10	<1 <1 <10	<1 <1 <10	<1 <1 <10	
Dibromochloromethane Dibromomethane	ug/l ug/l		100	<10 <10		<10 <10	<10 <10	<10 <10	<10 <10	
Dichlorodifluoromethane thylbenzene lexachlorobutadiene (HCBD)	ug/l ug/l	20		<1 <1	<1	<1 <1	<1 <1	<1 <1	<1	
Hexachlorobutadiene (HCBD) sopropylbenzene n,p xylenes	ug/l ug/l ug/l	30		<1 <1 <1	<1	<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	
Nethyl tert-butyl ether (MTBE) -Butylbenzene	ug/l ug/l			<1 <1		<1 <1	<1 <1	<1 <1	<1 <1	
-propylbenzene D-Xylene ec-Butylbenzene	ug/l ug/l ug/l	30		<1 <1 <1	<1	<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	
tyrene ert-Butylbenzene	ug/l ug/l	50		<1 <1		<1 <1	<1 <1	<1 <1	<1 <1	
etrachloroethene etrachloromethane (Carbon Tetra Chloride) oluene	ug/l ug/l ug/l	10 12 50	10 3	<1 <1 <1	<1	<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	
rans-1,2-Dichloroethene rans-1,3-Dichloropropene	ug/l ug/l	30		<1 <10	-1	<1 <10	<1 <10	<1 <10	<1 <10	
ribromomethane richloroethene	ug/l ug/l	10	100 10	<1 <1		<1 <1	<1 <1	<1 <1	<1 <1	
richlorofluoromethane SVOCs ,3-Dichlorobenzene	ug/l	20		<0.5		<0.5	<0.5	<0.5	<0.5	
,4,5-Trichlorophenol ,4,6-Trichlorophenol	ug/l ug/l			<0.5 <0.5		<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 0.64	
,4-Dichlorophenol ,4-Dimethylphenol ,4-Dinitrotoluene	ug/l ug/l ug/l	20		<0.5 <0.5 <0.5		<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	0.68 <0.5 <0.5	
2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Chloronaphthalene	ug/l ug/l 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	
2-Chlorophenol 2-Methyl-4,6-Dinitrophenol	ug/l ug/l	50		<0.5 <0.5		<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	
2-Methylnaphthalene 2-Methylphenol	ug/l ug/l	100	 	<0.5 <0.5		<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	

Screening \	/alues & Assessment
EQS	Environmental Quality Standards
DWS	Drinking Water Standard
	Exceeds EQS
Х	Exceeds DWS
X	Laboratory detection level higher than screening criterion

Offsite borehole location

EQS calcium carbonate 100 - 150mg/l for heavy metals: chromium, copper, lead, nickel and zinc

No.	No. Analyses	Maximum	Minimum	romium, copper, lead, nickel and zinc Location & Depth of Maximum	No. Data	No. Data
Analyses	Above LOD			Concentration	Exceeding EQS	Exceeding DWS
6	3 4	3.4 160	40 Name > 100	BH545 @ 7.34mbGL BH545 @ 7.34mbGL	0	0
6 6	0 3 1	None > LOD 11 1.6	2.5 1.6	BH545 @ 6.75mbGL BH545 @ 7.34mbGL	0	0 0 0
6 6	0 2	None > LOD 0.55	None > LOD 0.51	BH545 @ 6.75mbGL	0 2	0
6 6	5 5	7 3.6 9.4	1.4 1.3 1.5	BH545 @ 7.34mbGL BH545 @ 7.34mbGL BH545 @ 7.34mbGL	0	0
6	6	500	240	BH549 @ 10.18mbGL		
6	6	290 0.056	190 0.023	BH549 @ 10.18mbGL BH549 @ 10.18mbGL	1 0	1
6 6 6	0 0 6	None > LOD None > LOD 8.3	None > LOD None > LOD 7.5	BH545 @ 7.16 / BH549 @ 11.51mbGL	0	0
5	0	None > LOD	None > LOD	7.10 W 7.10 E 7.10 T T T T T T T T T T T T T T T T T T T	0	0
6	0	None > LOD	None > LOD		0	
6 6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0 0	0
6	0	None > LOD None > LOD	None > LOD None > LOD		0	
6	0	None > LOD	None > LOD			
6 6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			
6	0	None > LOD None > LOD	None > LOD None > LOD			
6	0	None > LOD None > LOD	None > LOD None > LOD			
6 6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			
6	0	None > LOD None > LOD None > LOD	None > LOD None > LOD			
6 6	0	None > LOD None > LOD	None > LOD None > LOD			_
6 6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			
6	0	None > LOD	None > LOD			
6	0	None > LOD None > LOD	None > LOD			
6 6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	0
6	0	None > LOD None > LOD	None > LOD None > LOD		0	0
6	0	None > LOD None > LOD	None > LOD None > LOD		0	0
6 6	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
6	0	None > LOD None > LOD	None > LOD None > LOD		0	0
6	0	None > LOD None > LOD	None > LOD			
5	0	None > LOD None > LOD	None > LOD None > LOD			
5	0	None > LOD None > LOD	None > LOD None > LOD		0	
5	0	None > LOD None > LOD	None > LOD None > LOD			
5 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
5	0	None > LOD None > LOD	None > LOD None > LOD		0	
5 5 5	0	None > LOD	None > LOD		0	
5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	0
5 5	0	None > LOD None > LOD	None > LOD None > LOD			
5 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
5	0	None > LOD None > LOD	None > LOD None > LOD		0	0
5 5	0	None > LOD None > LOD	None > LOD None > LOD			0
5 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			
5 5	0	None > LOD None > LOD None > LOD	None > LOD None > LOD			
5	0	None > LOD None > LOD	None > LOD None > LOD		0	0
5 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			0
5 5	0	None > LOD None > LOD	None > LOD None > LOD			-
6 5 5	0 0 0	None > LOD None > LOD	None > LOD		0	
5 6 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
5 5	0	None > LOD None > LOD	None > LOD None > LOD			
6 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
5 5	0	None > LOD None > LOD	None > LOD None > LOD		0	0
5 6	0	None > LOD None > LOD	None > LOD None > LOD		0	0
5 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			0
5	0	None > LOD None > LOD	None > LOD		0	0
5	0	None > LOD	None > LOD		0	
5 5 5	0 1 1	0.64 0.68	0.64 0.68	BH549 @ 10.18mbGL BH549 @ 10.18mbGL	0	
5 5	0	None > LOD None > LOD	None > LOD None > LOD		_	
5 5	0	None > LOD	None > LOD		^	
5 5 5	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		0	
5	0	None > LOD None > LOD	None > LOD None > LOD		0	
						

Groundwater Analysis Results & Screening Assessment CL-33 08/07/2015

Geological Formation Legend

AG Avon Group

Monitoring Round		Screenin	ng Criteria	1	2	3	1	2	6
Location		Screening	5 cincina	BH545	BH545	BH545	BH549	BH549	BH549
Location Type				511343	BH	DH343 DH349		BH	
Response Zone (RZ) Details				AG	AG	AG	AG	AG	AG
Depth	Units	EQS	DWS	6.75	7.16	7.34	9.37	11.51	10.18
Date Sampled				17/04/2015	24/04/2015	01/05/2015	17/04/2015	24/04/2015	01/05/2015
2-Nitrophenol	ug/l			<0.5		<0.5	<0.5	<0.5	<0.5
3-Nitroaniline	ug/l			<0.5		<0.5	<0.5	<0.5	<0.5
4-Bromophenyl Phenyl Ether	ug/l			<0.5		<0.5	<0.5	<0.5	<0.5
4-Chloro-3-Methylphenol	ug/l	40		<0.5		<0.5	<0.5	<0.5	<0.5
4-Chloroaniline	ug/l			<0.5		<0.5	<0.5	<0.5	<0.5
4-Chlorophenyl Phenyl Ether	ug/l			<0.5		<0.5	<0.5	<0.5	<0.5
4-Methylphenol	ug/l	100		<0.5		<0.5	<0.5	<0.5	<0.5
4-Nitroaniline	ug/l			<0.5		<0.5	<0.5	<0.5	<0.5
Azobenzene	ug/l			<0.5		<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane	ug/l			<0.5		<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether	ug/l			<0.5		<0.5	<0.5	<0.5	<0.5
Bis(2-chloroisopropyl)ether	ug/l			<0.5		<0.5	<0.5	<0.5	<0.5
Bis(2-ethylhexyl)phthalate	ug/l	1.3		<0.5		<0.5	<0.5	<0.5	<0.5
Butylbenzylphthalate	ug/l	20		<0.5		<0.5	<0.5	<0.5	<0.5
Carbazole	ug/l			<0.5		<0.5	<0.5	<0.5	<0.5
Dibenzofuran	ug/l			<0.5		<0.5	<0.5	<0.5	<0.5
Diethylphthalate	ug/l	200		<0.5		<0.5	<0.5	<0.5	<0.5
Dimethylphthalate	ug/l	800		<0.5		<0.5	<0.5	<0.5	<0.5
Di-N-Butyl Phthalate	ug/l	8		<0.5		<0.5	<0.5	<0.5	<0.5
Di-N-Octyl Phthalate	ug/l	20		<0.5		<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene (HCB)	ug/l	0.05		<0.5		<0.5	<0.5	<0.5	<0.5
Hexachlorocyclopentadiene	ug/l			<0.5		<0.5	<0.5	<0.5	<0.5
Hexachloroethane	ug/l			<0.5		0.98	<0.5	<0.5	<0.5
Isophorone	ug/l			<0.5		<0.5	<0.5	<0.5	<0.5
Nitrobenzene	ug/l			<0.5		<0.5	<0.5	<0.5	<0.5
n-nitrosodimethylamine	ug/l			<0.5		<0.5	<0.5	<0.5	<0.5
N-Nitroso-Di-N-Propylamine	ug/l			<0.5		<0.5	<0.5	<0.5	<0.5
Pentachlorophenol (PCP)	ug/l	0.4		<0.5		<0.5	<0.5	<0.5	<0.5
Phenol	ug/l	7.7		<0.5		<0.5	<0.5	<0.5	<0.5
PCBs									
Pcb-101 2,2',4,5,5' - Pentachlorobiphenyl	ug/l			<0.1	<0.1	<0.1			
Pcb-118 2,3',4,4',5 - Pentachlorobiphenyl	ug/l			<0.1	<0.1	<0.1			
Pcb-138 2,2',3,4,4',5' - Hexachlorobiphenyl	ug/l			<0.1	<0.1	<0.1			
Pcb-153 2,2',4,4',5,5' - Hexachlorobiphenyl	ug/l			<0.1	<0.1	<0.1			
Pcb-180 2,2',3,4,4',5,5' - Heptachlorobiphenyl	ug/l			<0.1	<0.1	<0.1			
Pcb-28 2,4,4' - Trichlororbiphenyl	ug/l			<0.1	<0.1	<0.1			
Pcb-52 2,2',5,5' - Tetrachlorobiphenyl	ug/l			<0.1	<0.1	<0.1			

Laboratory detection level higher than screening criterion

Offsite borehole location

EQS calcium carbonate 100 - 150mg/l for heavy metals: chromium, copper, lead, nickel and zinc

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	No. Data Exceeding EQS	No. Data Exceeding DW
5	0	None > LOD	None > LOD			
5	0	None > LOD	None > LOD			
5	0	None > LOD	None > LOD			
5	0	None > LOD	None > LOD		0	
5	0	None > LOD	None > LOD			
5	0	None > LOD	None > LOD			
5	0	None > LOD	None > LOD		0	
5	0	None > LOD	None > LOD			
5	0	None > LOD	None > LOD			
5	0	None > LOD	None > LOD			
5	0	None > LOD	None > LOD			
5	0	None > LOD	None > LOD			
5	0	None > LOD	None > LOD		0	
5	0	None > LOD	None > LOD		0	
5	0	None > LOD	None > LOD			
5	0	None > LOD	None > LOD			
5	0	None > LOD	None > LOD		0	
5	0	None > LOD	None > LOD		0	
5	0	None > LOD	None > LOD		0	
5	0	None > LOD	None > LOD		0	
5	0	None > LOD	None > LOD		0	
5	0	None > LOD	None > LOD			
5	1	0.98	0.98	BH545 @ 7.34mbGL		
5	0	None > LOD	None > LOD			
5	0	None > LOD	None > LOD			
5	0	None > LOD	None > LOD			
5	0	None > LOD	None > LOD			
5	0	None > LOD	None > LOD		0	
5	0	None > LOD	None > LOD		0	
3	0	None > LOD	None > LOD			
3	0	None > LOD	None > LOD			
3	0	None > LOD	None > LOD			
3	0	None > LOD	None > LOD			
3	0	None > LOD	None > LOD			
3	0	None > LOD	None > LOD			
3	0	None > LOD	None > LOD			

Appendix 5

Soil Leachate Laboratory Data

M4CAN Leachate Analysis Results & Screening Assessment CL-33 08/07/2015

Geological Formation Legend						
MG	Made Ground					

Sample Reference		Screenin	g Criteria	STPN03	STPN04
Specimen Depth				0.3	0.3
Level				20.39	17.33
Sample Type	Units	FOC	DWS	D	В
Geology Code		EQS	DWS	MG	MG
Cluster Code				2007 GI	2007 GI
2:1 Leachate Results					
Arsenic Dissolved	ug/l	50	10	2	<1
Boron Dissolved	ug/l	2000	1000	50	150
Barium Dissolved	ug/l			24	18
Cadmium Dissolved	ug/l	0.15	5	<0.4	<0.4
Chromium Dissolved	ug/l		50	2	4
Copper Dissolved	ug/l	10	2000	3	3
Molybdenum Dissolved	ug/l			2	<1
Nickel Dissolved	ug/l	4	20	2	2
Lead Dissolved	ug/l	1.2	10	6	<1
Antimony Dissolved	ug/l		5	<5	<5
Selenium Dissolved	ug/l		10	<1	<1
Zinc Dissolved	ug/l	75		<3	<3
Total Cyanide	mg/l	0.001	0.05	<0.05	<0.05

WAC

Location	Units	STPN03	STPN04
Depth	Units	0.3	0.3
Antimony Dissolved (CEN 10:1C) (ICP-MS)	mg/kg	0	0
Arsenic Dissolved (CEN 10:1C) (ICP-MS)	mg/kg	0.02	0
Barium Dissolved (CEN 10:1C) (ICP-MS)	mg/kg	0.05	0.14
Boron Dissolved (CEN 10:1C) (ICP-MS)	mg/kg	0	0.4
Cadmium Dissolved (CEN 10:1C) (ICP-MS)	mg/kg	0	0
Chromium Dissolved (CEN 10:1C) (ICP-MS)	mg/kg	0	0
Copper Dissolved (CEN 10:1C) (ICP-MS)	mg/kg	0	0.23
Lead Dissolved (CEN 10:1C) (ICP-MS)	mg/kg	0	0.02
Molybdenum Dissolved (CEN 10:1C) (ICP-MS)	mg/kg	0.02	0
Nickel Dissolved (CEN 10:1C) (ICP-MS)	mg/kg	0.02	0.02
Selenium Dissolved (CEN 10:1C) (ICP-MS)	mg/kg	0.03	0
Total Cyanide (CEN 10:1C)	mg/kg	0	0
Zinc Dissolved (CEN 10:1C) (ICP-MS)	mg/kg	0	0.22

Screening Values & Assessment

EQS	Environmental Quality Standards
DWS	Drinking Water Standard
	Exceeds EQS
X	Exceeds DWS
X	Laboratory detection level higher than screening criterion

Notes

EQS calcium carbonate 100 - 150mg/l for heavy metals: chromium, copper, lead, nickel and zinc

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	No. Data Exceeding EQS	No. Data Exceeding DWS
2	1	2	2	STPN03 @ 0.3mbGL	0	0
2	2	150	50	STPN04 @ 0.3mbGL	0	0
2	2	24	18	STPN03 @ 0.3mbGL		
2	0	None > LOD	None > LOD		0	0
2	2	4	2	STPN04 @ 0.3mbGL		0
2	2	3	3	STPN03 @ 0.3 / STPN04 @ 0.3mbGL	0	0
2	1	2	2	STPN03 @ 0.3mbGL		
2	2	2	2	STPN03 @ 0.3 / STPN04 @ 0.3mbGL	0	0
2	1	6	6	STPN03 @ 0.3mbGL	1	0
2	0	None > LOD	None > LOD			0
2	0	None > LOD	None > LOD			0
2	0	None > LOD	None > LOD		0	
2	0	None > LOD	None > LOD		0	0

Appendix 6

Site Walkover Photographs



Plate 01: CL33 – View Looking West Across Site



Plate 02: CL33 – View Looking North Across Site

Client: Welsh Government

Project: M4CaN

Job Ref: JER6591 Checked By:

Date: June 2015

Appendix 7

Relevant Extract of Additional Environmental Data

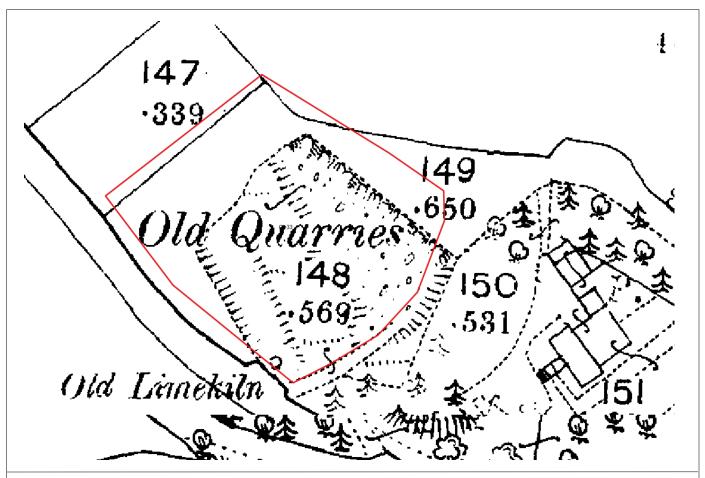


Plate 01: Extract of 1843 – 1893 historical map showing the Old Quarry on the Site.



Plate 02: Extract of 1981 infra red image highlighting broken ground on the Site.

Client:	Welsh Government	
Project:	M4CaN	
Job Ref:	JER6591 Checked By:	Date: Oct 2015



Plate 03: Extract of 2014 High Resolution Aerial Photograph.

Client: Welsh Government

Project: M4CaN

Job Ref: JER6591 Checked By: Date: Oct 2015

Welsh Government

M4 Corridor around Newport

Land Contamination Assessment Report Annex D

CL-35 Magor Services Land Contamination Report

M4CaN-DJV-EGT-ZG_GEN-RP-EN-0023

At Issue | March 2016

Job number JER 6591

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1 Introduction

1.1 Background

- **1.1.1** This report relates to an area of land potentially affected by contamination (CL-35) known as 'Magor Services' hereinafter referred to as the Site.
- **1.1.2** The Site is located between chainage 20,900 and 21,200 (See Figure 1), upon a motorway service station.

1.2 Reporting Context

- 1.2.1 The Site has been assessed as part of ground investigations and monitoring associated with the wider works for the M4 Corridor around Newport (M4CaN) (hereafter referred to as the "Scheme") and informs the baseline for the environmental impact assessment (EIA) for the Scheme. The EIA is reported in the M4CaN Environmental Statement (ES) of which this document is an appendix to the chapter on Geology and Soils.
- 1.2.2 In 2014, a Preliminary Sources Study Report (2014 PSSR) was prepared as an initial land contamination appraisal (Ove, Arup & Partners, 2014) as part of DMRB Stage 2 Assessments for this Scheme. This identified a number of individual areas that may have been affected by contamination as a result of historical activities at the Site. In addition, this report draws upon the 2015 Supplementary Ground Investigation Works undertaken on behalf of the Welsh Government (Geotechnical Engineering, 2015). This report relates to the area defined on the Site Location Plan Figure 1.
- 1.2.3 The overarching rationale and approach for the assessment of areas of land along the Scheme with potential contamination is detailed in the Land Contamination Assessment Report (Appendix 11.1 of the ES).

1.3 Objectives

- **1.3.1** The key objectives of this report are as follows:
 - Undertake a risk assessment of the site and determine whether potential risks to human health or controlled waters could exist based upon the Scheme.
 - Identify the need for further assessment and investigation in order to refine potential land contamination risks and inform the need for remediation/mitigation.
 - To provide information to support the Ground Investigation Report (GIR) and Geotechnical Design Report (GDR) required under DMRB HD22/08 (Highways Agency, 2008).

1.4 Report Structure

- **1.4.1** The remainder of this report is structured as follows:
 - Section 2: Site Location and Description This section summarises the Site description.

- Section 3: The Scheme This section details the Scheme alignment and associated features and at the Site.
- Section 4: Site History This section summarises the history of the Site based on historical maps and historical land photographs.
- Section 5: Environmental Setting This section summarises the Site description, published geology, hydrology and hydrogeology and any relevant environmental information presented in the 2014 PSSR.
- Section 6: Scope of Ground Investigations Work This section describes the previous and supplementary ground investigation data available for the Site.
- Section 7: Ground Conditions This section describes the main findings of the intrusive site investigation including the ground conditions encountered and visual or olfactory evidence of contamination identified.
- Section 8: Contamination Assessment This section describes the findings of the Tier 1 and Tier 2 contamination risk assessment based upon potential contamination sources, potential receptors and potential contaminant linkages and presents the human health and controlled waters assessments.
- Section 9: Refined Site Conceptual Model This section presents the Conceptual Site Model (CSM) for the Site and identifies potential contaminant linkages, based upon the findings of the data presented within Sections 2 to 7.
- Section 10: Conclusions and Recommendations This section provides conclusions concerning the likelihood of land contamination associated with the Site affecting the Scheme and requirements for remediation/mitigation.

2 Site Location and Description

2.1 Site Location

- 2.1.1 The CL-35 site is located within the eastern part of the Scheme immediately north of Junction 23A of the M4 and is centred on National Grid Reference ST422 880. The location of the Site is presented on Figure 1. The Site covers an area of approximately 7.5 ha.
- **2.1.2** The Site is a service station that broadly comprises a main services building with hotel, a petrol station, car/HGV parking and landscaped/vegetated areas.
- 2.1.3 The slip roads to the M4/A4810 interchange form the southern boundary of the Site. The Site is bounded by minor roads and fields to the northwest and northeast. The services were under construction in 1991 and first opened in 1996, with further development in 1998.
- 2.1.4 Site walkover surveys undertaken in January 2014 and May 2015 identified that the Site appears to have been constructed on a fill platform, some 3 m to 4 m in height. Evidence of minor fly tipping, particularly around the parking areas, was identified and included tyres, plastics and wood. Photographs from the Site walkover are provided in Appendix 4.
- **2.1.5** Site layout is shown in Figure 1.

3 The Scheme

- 3.1.1 The Site is located on the M4 Corridor around Newport at approximate chainage 20,900 and 21,200. Refer to Figure 1 for the Site location in relation to the Scheme.
- 3.1.2 The reconstruction of the Magor Interchange would include realignment of the M48 to the north. This would result in an embankment into the south eastern corner of the CL-35 Site area.
- 3.1.3 The existing St Bridge's Road bounds the eastern boundary of the Site and its alignment would be altered to include so up to 4 m cutting along a short section of the Site. The removed soils may either be reused within the Scheme, if proven to be suitable for reuse, or disposed to a suitable landfill.

4 Site History

- 4.1.1 The 2014 PSSR historical searches have been based on Ordnance Survey plans, literature reviews, information provided by British Steel, Natural Resources Wales (NRW) (formerly Environment Agency Wales), Newport City Council and aerial photographic interpretation.
- **4.1.2** This is supplemented by a review of historical maps opened in 2015 from Welsh Government. Relevant extracts are presented in Appendix 5.
- **4.1.3** A summary of the Site's history is presented in Table 1 below.

Table 1: Summary of Site History

Date	Land Use & Surrounding Land Use (200m)	Source of Information
1843 - 1893	The Site comprises a number of agricultural fields and is bound to the northeast and northwest by minor roads. A small copse is located in the east. St Brides Brook is located running north-south approximately 90m to the east.	1:10,560 Historical Mapping
1891 - 1912	No significant change	1:10,560 Historical Mapping
1904 - 1939	No significant change	1:10,560 Historical Mapping
1964 – 1965	No significant change	1:10,560 Historical Mapping
1969	The M4 motorway and Junction 23A have been constructed along the southern boundary of the Site. The copse onsite is no longer there. The town of Magor has expanded to within 175 m to the south of the Site.	Aerial Photography
1969 - 1971	No significant change	1:10,560 Historical Mapping
1985 - 1996	No significant change	1:10,000 Historical Mapping
1991	Construction of the service station complex is in progress across the Site.	Aerial Photography
1998	A service station has been developed in the centre of the Site with associated landscaping around it. The petrol station is located in the southwest of Site.	Aerial Photography
2006	No significant change	Aerial Photography
2009 - 2010	A hotel is under construction approximately 90 m to the southwest of the Site.	Aerial Photography
2013 - 2014	The vegetation around the areas of hardstanding has matured.	Aerial Photography

^{*}Notes. Potential sources of contamination are underlined. Those within the temporary and permanent land take are shown in bold.

- **4.1.4** The sources of information presented above supplement those used in the 2014 PSSR. Relevant extract of the photographs are presented in Appendix 5.
- **4.1.5** The review of the Site history indicates the Site remained as open fields until the construction of the service station in the late 1990s.
- 4.1.6 Historically the Site is located in proximity to areas which may have been bombed during World War II which is discussed in the Explosive Ordnance Threat Assessment Report (Bactec, 2014). This categorises the Site as low risk with respect to unexploded ordnance

5 Environmental Setting

5.1 Geology

5.1.1 British Geological Survey (BGS) data indicates that superficial deposits are only present along the eastern boundary of the Site comprising River Terrace Deposits. The bedrock underlying the south of the Site comprises dolomitic conglomerate of the Mercia Mudstone Group (marginal facies) and the north of the Site comprises the Avon Group Carboniferous Limestones.

5.2 Hydrology

5.2.1 A drainage pond is present in the southeast corner of the Site which appears to be part of the services drainage system rather than the neighbouring M4 drainage system. St Bride's Brook is located approximately 75 m to the east of the Site.

5.3 Hydrogeology

- 5.3.1 NRW classifies the River Terrace Deposits as a Secondary A Aquifer and the bedrock as a Principal Aquifer.
- 5.3.2 The Site does not lie within a groundwater source protection zone. However it lies within a groundwater vulnerability zone classified as a major aquifer with intermediate leaching potential.

5.4 Environmental Information

- NRW records indicate a single pollution incident occurred within the Site which had minor impact on land and no impact on air and water. The incident was in relation to an unauthorised waste management activity in relation to metal waste. Another pollution incident occurred within the Site but this had no impact on land, air or water. Two further pollution incidents occurred within 300 m of the Site which had no impact on land, however had a minor impact on water due to discharge of oils/fuel to the St Bride's Brook.
- **5.4.2** Based on the above the onsite incident could represent a minor source of potential contamination that should require due consideration in the relation to the Scheme.
- 5.4.3 A discharge consent to an unidentified non-tidal watercourse has been held by the service station since 1995. The discharge point is shown to be located approximately 200 m to the south of the Site. However, there are no watercourses at this location. The location of the discharge consent therefore appears to be different to the one shown but it is anticipated that the discharge consent will be to St Bride's Brook as there are no other watercourses in the vicinity of the Site.
- 5.4.4 NRW records indicate no further pollution incidents, landfills, abstraction or discharge points are located within 300 m of the Site.
- **5.4.5** The Magor Marsh SSSI is located approximately 1 km to the south.

6 Scope of Investigations

6.1 General

- **6.1.1** Two intrusive ground investigations have been undertaken within the Site. The information has been summarised below.
- 6.1.2 For the purpose of meeting the requirements of Volume 4, Section 1, Part 2 of the DMRB (Highways Agency, 2008), the historical data used to support the 2014 PSSR has differentiated from additional 2015 Supplementary Ground Investigation data (Geotechnical Engineering, 2015).

6.2 Scope of Works

6.2.1 The various intrusive ground investigations undertaken within the Site area are summarised in Table 2.

Table 2: Site Investigation Summary

Date	Contractor	Site Location	Boreholes	Window Sampler	Trial Pits	Sampling
1997	Norwest Holst	Southeast	BHN7 BHN8	-	-	None
2015	Geotechnical Engineering	Central	BH551	-	-	Soil

6.2.2 The well construction details of all boreholes installed on the Site are summarised in Table 3.

Table 3: Summary of Borehole Construction Details

Borehole ID	Diameter (mm)	Total Drilled Depth (m)	Top of Slotted Well Casing / Gravel Pack (mbGL)	Base of Slotted Well Casing / Gravel Pack (mbGL)	Targeted Geology
BHN7	50 (unspecified on logs)	20.2	Unspecified	20.2	Mercia Mudstone Group marginal Facies (Dolomite / Sandstone)
BHN8	50 (unspecified on logs)	15	4.5	9.5	Mercia Mudstone Group Marginal Facies (Dolomite)

6.3 Surface Water Quality Sampling

6.3.1 Surface water quality monitoring was undertaken on four occasions at the following location during winter 2007 and spring and summer 2008.

Table 4: Surface Water Monitoring Locations

Surface water location ID	Location description	Comments
R19	Located at St Brides Brook, approximately 230m southeast of the Site.	Fast flow; water brown in colour. SW outfalls draining into reen above sampling point.

- 6.3.2 The surface water chemical results are presented in the baseline surface quality monitoring interim report by Titan Environmental Surveys Limited (Titan Environmental Survey Ltd, 2008) which also presents the baseline water quality monitoring programme of watercourse located near the proposed alignment at the time of the study.
- 6.3.3 The results and a review of all sample locations are also presented in the Baseline Water Environment report (Appendix 16.2 of the ES).

6.4 Field Testing

6.4.1 Monitoring of Volatile Organic Compounds (VOCs) was undertaken on three soil samples from BH551 at 0-0.4 mbGL, 0.4-0.8 mbGL and 0.8-1.2 mbGL

6.5 Groundwater Monitoring

6.5.1 A summary of the groundwater sampling, groundwater / monitoring and ground gas monitoring is shown in Table 6.

Table 5: Summary of Monitoring Rounds

Location Ref.	Number of rounds (Date of sampling)	Monitoring details	Notes
BHN8	6no.	Groundwater level	

6.6 Laboratory Chemical Testing

6.6.1 A summary of the contamination results from the previous site investigations is shown below.

Table 6: Summary of previous investigation sampling

Site Investigation date	No. of soil samples	No. of leachate samples	No. of water samples	Suites of testing
2015	1	0	0	Metals, PAH, pH, cyanide

Soil Analysis

6.6.2 The following sections summarise the laboratory analytical results for the single soil samples collected during the various intrusive investigation phases. The available data set has been tabulated and is presented in Appendix 2. The supporting laboratory certificates available in the relevant original ground investigation report.

6.6.3 The analytical data relates to topsoil material as summarised below:

Table 7: Summary of Analytical Soil Data

	Number of Soil Analysis per Analytical Suite - 2015 data											
Unit Metals & PCB PAH TPH Phenol							Pthalates	voc	SVOC			
Topsoil	1	0	1	0	0	0	0	0	0			

Note: PAH - Polycyclic Aromatic Hydrocarbons, TPH - Total Petroleum Hydrocarbon, VOC - Volatile Organic Compounds, SVOC - Semi Volatile Organic Compounds

Soil Leaching Analysis

6.6.4 No leachate analysis has been undertaken for the Site during the previous ground investigation.

Groundwater Results

6.6.5 No groundwater analysis has been undertaken for the Site or within the immediate vicinity during the previous ground investigation.

Surface Water Results

6.6.6 The following sections summarise the laboratory analytical results for surface water samples collected during the various monitoring rounds. The available data set has been tabulated in a table format and is presented in Appendix 3 with supporting laboratory certificates available in the relevant original reports.

Table 8: Summary of Analytical Surface Water Data

Surface Water System	Number of W All GI data	Number of Water Analysis per Analytical Suite (number of locations) – 2015 data / All Gl data									
	Metals & inorganics	Water quality parameters	Polycyclic Aromatic Hydrocarbons	Total Petroleum Hydrocarbon	BTEX						
St Brides Brook	0 (1) / 4 (1)	0 (1) / 4 (1)	0 (1) / 0 (1)	0 (1) / 4 (1)	0 (1) / 2 (1)						

6.7 Gap Analysis of Available Data

6.7.1 The investigation data available for the Site is limited both in term of intrusive scope of works and analytical data. In particular, the laboratory data does not include full organic analytical suite, despite this being the main contaminants of concerns. Also there is no groundwater data available.

7 Ground Conditions

7.1 Geology

7.1.1 The geological logs for all available exploratory holes excavated on or in close proximity to the Site are provided in Appendix 1. The observed geological sequence is consistent with that discussed in the PSSR report and is summarised in the following sections. Information from the Supplementary Ground Investigation (Geotechnical Engineering, 2015) has also been used.

Superficial Deposits

- 7.1.2 Unconsolidated superficial deposits were encountered in all locations. These comprised Head Deposits, generally comprising a reddish brown sandy clay at thicknesses of 0.8 3 m. A gravelly sand with occasional cobbles was encountered below a clay topsoil within BH551.
- 7.1.3 The 2014 PSSR indicated that these superficial deposits may have been partially reworked during the construction of the service station as engineered fill. Evidence of reworking is not evident from the available borehole records.

Solid Geology

- 7.1.4 The bedrock was encountered at relatively shallow depth below the Head deposits and comprised Marginal Facies of the Mercia Mudstone Group (MFMMG). This included a number of different lithologies; namely sandstone, dolomite, mudstones, conglomerate and breccia.
- **7.1.5** The base of the MFMMG was unproven during either ground investigation.

Geological Sequence Summary

7.1.6 The general geological sequence identified during the previous ground investigations is summarised in Table 9.

Table 9: Summary of Geological Sequence

Unit	Description	Thickness Range (m)	Basal depth (mbGL)
Head Deposits	Reddish brown sandy clay, gravelly sand.	0.8 - 3	1.2 - 3
Marginal Facies of the Mercia Mudstone Group	Dolomite, sandstone, mudstone, conglomerate and breccia.	>12->17.2	unproven

- 7.1.7 Given the limited onsite data, a review of exploratory borehole and trial records outside the Site Boundary has been undertaken to further improve the understanding of ground and groundwater conditions. Boreholes SBHN03RC (Norwest 2008), boreholes BH552 and BH554 (Geotechnical Engineering, 2015) and trial pit STPN05 (Geotechnical Engineering, 2015). These are located some 10-20 m south east of the Site.
- **7.1.8** From this additional information, predominantly coarse material of the river terrace deposits may be present at the south eastern corner of the Site beneath

- the Head Deposits. The River Terrace Deposits are anticipated to be up to 3 m in thickness and overlies the MFMMG bedrock.
- **7.1.9** The conceptual ground model included within the 2014 PSSR report has been revised in light of the 2015 information and is presented within Figure 2.

7.2 Visual and Olfactory Evidence of Contamination

- **7.2.1** No visual or olfactory evidence of contamination was identified during the previous ground investigations.
- 7.2.2 PID monitoring was undertaken on three soil samples from BH551. The PID meter recorded levels of between 1.2 and 1.9 ppm within the Head Deposits and Mercia Mudstone indicating the presence of low level naturally occurring VOCs.
- **7.2.3** Full details and observations noted during the drilling are presented on the exploratory logs attached in Appendix 1.

7.3 Gas Monitoring

7.3.1 No gas monitoring dataset from the previous ground investigations is available for the Site.

7.4 Groundwater

Groundwater Encountered During Investigation

7.4.1 A water strike was encountered during the advancement of borehole BHN7 during the 1997 investigation as detailed on the geological logs provided in Appendix 1. This together with additional water level information provided by the exploratory borehole records is summarised below:

Table 10: Summary of Groundwater & Leachate Water Level Data

Location	Strike Depth (m bGL)	Geological Formation	Level after 20 minutes (mbGL)	Comments
	12.1	Marginal Facies of the Mercia Mudstone Group (Dolomite)	0.0 (log state time taken to rise is 0)	Uncertain on the accuracy of the recorded resting level
BHN7				Water level recorded at 12.1 and 12.51 m bGL (5.49 m AOD) when borehole taken into dolomite within MFMMG (15.7 m bGL)
				Water level recorded at 12.27 m bGL (5.73 m AOD) when borehole taken into sandstone within MFMMG (20.2 m bGL)
BHN8				Water level recorded at 5.2 m bGL (7 m AOD) when borehole taken into conglomerate within MFMMG (10 m bGL)

Location	Strike Depth (m bGL)	Geological Formation	Level after 20 minutes (mbGL)	Comments
				Water level recorded at 5.69 m bGL (6.51 m AOD) when borehole complete within mudstone of MFMMG (15 m bGL)

7.4.2 Groundwater was not encountered in any other boreholes.

Groundwater Level Dataset

7.4.3 The entire groundwater level dataset gathered is provided in Norwest Holst, 1997 report and summarised in Table 11.

Table 11: Summary of Groundwater Level Data

Location	Installation ^{#1}	Depth of response zone (mbGL) and Geological Formation	No. Measurements	Minimum Depth (mbGL)	Maximum Depth (mbGL)	Comments
BHN8	50 mm	4.5 - 9.5 MFMMG (Dolomite & Conglomerate)	6	4.07	5.64	

Notes. #1: S denotes a shallow installation and D denotes deep installation.

Groundwater Summary

- 7.4.4 The main deep groundwater body within the bedrock is likely to be influenced by the variable sequence of mudstone, conglomerates and sandstone. It has been identified with a fairly stable resting water level around 4-5 m bGL (6.5-8 m AOD) within the dolomite of the MFMMG at borehole BHN08.
- 7.4.5 The off site borehole SBHN03 indicating water level at around 0.4-0.8 m bGL during drilling with the river terrace deposits. The piezometric equipment installed 8 m into the MFMMG recorded a resting water level between 1.07-2.37 m bGL (9.39-9.69 m AOD) indicating possible hydraulic continuity between the superficial deposits and bedrock.
- **7.4.6** Perched groundwater is anticipated within the more granular horizons of the Head Deposits and within the river terrace deposits.
- 7.4.7 The various perched and deep groundwater bodies are considered to be in hydraulic continuity with the St Brides Brook, although this would need to be confirmed given the limited groundwater levels available.

8 Contamination Assessment

- **8.1.1** The following sections provide details of the assessment of land contamination at the site.
- 8.1.2 The outline Conceptual Site Model (CSM) presented within the 2014 PSSR has been reviewed and updated based on data from the Supplementary Ground Investigation (Geotechnical Engineering, 2015) and the Scheme. The main alteration to the 2014 PSSR model are summarised as follows:
 - Review of possible sources.
 - Addition of off site groundwater and gas dataset.
 - Alteration of the geological model.
 - Update of the source/pathway/receptor linkages taking account of the above and more detailed assessments.

8.2 Preliminary Risk Assessment

Potential Sources

- 8.2.1 The Site is being used as a service station and any associated potentially contaminated soil, hydrocarbons and buried fuel tanks has been identified as a potential source of contamination. The area of the petrol station does not form part of the Scheme and therefore the liabilities associated with any contamination that it may cause would remain with the current land owner. Also the proposed earthworks associated with the M4 highway relates to the edges of the service station ownership, in undeveloped woodland areas. Potentially contaminated soil, hydrocarbons and buried fuel tanks associated with the service station are therefore considered as "off site" sources in the context of the M4 highway Scheme.
- **8.2.2** Potential contamination sources to the M4 Scheme are therefore migratory by products from contamination soils, hydrocarbon and buried fuel tanks, through soil matrix, perched groundwater or aquifer.
- 8.2.3 Fill material has been used for services development. No evidence of man-made material has been identified in the limited data and it is assumed the fill, if present, consists or reworked soils of the Head Deposits. On the basis of the current information, fill material is not considered a potential source of contamination.
- 8.2.4 As the fly tipping observed during the site walkover in the northern area of the services was only minor, it is not anticipated to be a potential source of contamination and is located away from the Scheme.

Potential Receptors

8.2.5 Receptors during the construction and the operational stages of the Scheme have been considered:

Construction

• Construction workers during site development works.

- Service Station users (staff/personnel and visitors).
- Groundwater in the Secondary A aquifer within the River Terrace Deposits and the Principal aquifer within the bedrock.
- St Brides Brook located approximately 75 m east from the Site.

Operational

- Maintenance workers.
- General public end users.
- Groundwater in the Secondary A aquifer within the River Terrace Deposits and the Principal aquifer within the bedrock.
- St Brides Brook located approximately 75 m east from the Site.

Potential Pathways

- **8.2.6** Pathways during the construction and the operational phases of the Scheme have been considered:
 - Dermal contact, ingestion, inhalation pathways of potentially contaminated soils possible during construction and maintenance works.
 - Dermal contact (dust only), ingestion (dust only) and inhalation (dust and hydrocarbon vapour) pathways possible for general public end users.
 - Lateral migration of hydrocarbon contamination from the underlying perched water (within the Head Deposit) or aquifers (within the superficial deposits and the underlying bedrock) from off site sources onto the Site during any dewatering associated with the construction phase or land drainage during the operation.
 - Lateral migration of perched water with elevated contaminants within the Head Deposit or aquifers to land drainage (surface waters).

8.3 Risk Evaluation

- 8.3.1 Source-pathway-receptor linkages were considered in the 2014 PSSR using the historical data available up to 2008. With review of the other data described herein, the following risk evaluation has been reconsidered and included:
 - Proposed cutting for the St Bridge's Road realignment is to recess the
 existing face closer towards the service station. The M4 slip road at the
 southern end of the Site will require new embankment. The land take as part
 of the earthworks on both highways only relates to undeveloped wooded
 areas of Magor Stations where no potential contaminated land sources area
 anticipated.
 - There have been two recorded pollution incidents within the Site (exact location unknown) although they had either minor or no impact.
 - The main contamination of concern to affect the M4 corridor are associated with hydrocarbons, subject to be a mechanism of transport given the sources are outside the area of cutting.

- The main mechanism of transport is considered to be associated with migration of hydrocarbon from groundwater with elevated concentrations of the river terrace deposits and/or bedrock.
- The presence of hardstanding at ground level within the fuel station and car park and the underlying predominantly cohesive Head Deposits would limit vertical contamination migration from accidental spillage into the aquifer. The buried tanks may however be within or at close proximity to the rockhead.
- The predominantly cohesive Head Deposits would limit lateral contamination migration from accidental spillage or leakages within the soil matrix. The distance source / receptors is noted to be in excess of 50 m. In the absence of viable pathways, the lateral migration in the soil matrix in not considered further in the conceptual model.
- The bedrock beneath the site contains a Principal Aquifer overlain by a thin layer of head deposits. The superficial deposits (river terrace deposits) to the north east contain a Secondary A Aquifer. These are anticipated to be in hydraulic continuity.
- Perched groundwater within the Head Deposits is not considered a water resource due to its anticipated low vertical hydraulic continuity with the aquifer beneath, low permeability and storage capacity. This is considered as pore waters and not as an aquifer.
- New cutting may intersect soils, perched water within the Head Deposits or groundwater within the aquifers with possible elevated hydrocarbon concentrations and increase the risk of migration into new highway drainage.
- Motorway users will be within open environment with no proposed structure or other confined spaces.

8.4 Human Health Risk Assessment

- 8.4.1 The rational and approach for the human health (Tier 2) screening assessment is detailed in the Land Contamination Assessment Report (Appendix 11.1 of the ES). Soil chemical analysis results and the findings of the generic tier 2 human health risk assessment are presented in Appendix 2.
- **8.4.2** There were no exceedances of the single soil sample (topsoil) to the relevant criteria screening criteria onsite.

8.5 Controlled Waters Screening Assessment

- 8.5.1 The rationale and approach for the controlled waters (Tier 1) screening assessment is detailed in the Land Contamination Assessment Report (Appendix 11.1 of the ES) and the surface water chemical results are presented in Appendix 3. All exceedances to the relevant criteria is summarised in Table 12 for surface waters.
- Where an EQS is dependent on water hardness (i.e. some heavy metals), the hardness of the surface water receptor should normally be used. The Baseline Water Environment Report (Appendix 16.2 of the ES) indicates surface water to be generally moderately hard with hardness in a range of 100 to 150 mg/l as calcium carbonate. Therefore EQSs within this water hardness range have been used for screening purposes

Groundwater Results

8.5.3 There is no analytical data available for groundwater beneath or in the vicinity of the Site from the previous ground investigations.

Surface Water

8.5.4 A total of four surface water samples were taken and analysed from St Brides Brook located approximately 230 m southeast of the Site. A summary of the exceedances of the screening criteria are shown in Table 12 below.

Table 12: Summary of Surface Water Screening Assessment

Parameter	Unit	No. Analyses	No. Analyses Above LOD	Minimum Concentration	Max Concentration	Location & Round with Max. Concentration	EQS	No. Analyses Exceeding EQS	DWS	No Analyses Exceeding DWS	CCW Trigger Level	No Analyses Exceeding CCW Trigger Level
Cadmium	ug/l	4	4	<0.5	1.4	R19 / E3	0.15	1	5	0	5	0
Dissolved Oxygen	%	4	4	93.8	106.5	R19 / E2	60	4	-	-	-	-
Nitrate as NO3	mg/l	4	4	10.2	15.1	R19 / E1	-	-	50	0	1	4
Nitrate as N	mg/l	4	4	2.3	3.4	R19 / E1 & E2	-	-	50	0	1	4
TON	mg/l	4	4	2.3	3.4	R19 / E1 & E2	-	-	50	0	2	4

- **8.5.5** The water quality within St Brides Brook is generally good, with cadmium as the only parameter to exceed its EQS.
- 8.5.6 Nitrate (NO₃), Nitrate (as N) and Total Oxidised Nitrogen were consistently recorded above NRW trigger levels throughout all monitoring rounds.
- 8.5.7 Dissolved oxygen was recorded as consistently above the EQS of <60 %.
- 8.5.8 As cadmium has been identified at a low concentration within the single soil sample from the Site, there is no evidence to indicate that the Site is impacting the surface water quality of St Brides Brook. The results are presented in baseline water quality monitoring report Titan Environmental Services Report (Titan Environmental Surveys Ltd, 2008).

8.6 Ground Gas Risk Assessment

8.6.1 No gas data from the previous ground investigations is available for this Site or immediate surrounding and therefore no risk assessment has been undertaken.

8.7 Summary

- **8.7.1** Given the limited intrusive and analytical information to date, further assessment is recommended.
- 8.7.2 The monitoring point located down stream of St Bides Brook relative to the site does not show obvious impact that may be attributed to the Site.

9 Refined Conceptual Model

- 9.1.1 The incorporation of data from the 2015 supplementary Ground Investigation has enabled the original CSM presented in the 2014 PSSR to be updated. Relevant contaminant (Source-Pathway-Receptor) linkages are considered within the refined CSM. The assessment is based on the Scheme during construction and operational phases.
- 9.1.2 A CSM representing general ground conditions, overall Scheme layout and relevant source/pathway/receptors (each of which having a specific alphanumerical symbol attached) are presented in Figure 2 and is described in Table 13.

Table 13: Site Conceptual Model

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
On Site	Construction					
Potential hydrocarbon contamination from the area of petrol filling station transported via	Construction Workers (B)	Direct dermal with contaminated soils and groundwater (1)	Low	Moderate	Moderate to low	Current limited data set (visually based) identified no gross contamination to be present. Overall current contamination status is not
groundwater of the aquifers		Ingestion of soils and groundwater (3)	Low Moderate Low Moderate		Moderate to low	foreseen to represent abnormal constraints to construction workers health & safety over and above those typical of a brown field Site.
Services users (staff/personnel and visitors) (A)		Inhalation of soil dust (2)			Moderate to low	Localised areas with elevated hydrocarbon concentrations, if present may however require
		Inhalation of hydrocarbon vapours (2)	Low	Moderate	Moderate to low	specific precautions and possibly specialist contractors to enable remediation. Further investigations are required to delineate the possible presence of hydrocarbon contamination.
	Direct dermal with soil dust(1)	Low	Moderate	Moderate to low	During construction there is the possibility of dermal contact and inhalation of soil dust with	
	Ingestion of soil dust(3)	Low	Moderate	Moderate to low	elevated hydrocarbon concentrations, short term exposure only. Dust suppression measures are recommended	
		Inhalation of soil dust (2)		Moderate	Moderate to low	during construction works. Further investigations are required to delineate the possible presence of hydrocarbon
		Inhalation of hydrocarbon vapours (2)	Low	Moderate	Moderate- to low	contamination.

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
	Groundwaters (Ca)	Migration (4)	Low	Moderate	Moderate to low	Potential contaminants in the groundwaters and surround soils may be mobilised during ground disturbance works. Dewatering works to support construction phase may draw additional contamination from the source areas (fuel service). Further investigation is recommended to confirm any potential risk.
	Surface water (land drainage) (D)	Saturated flow within groundwater (4)	Low	Moderate	Moderate to low	Perched (shallow) groundwater may be intercepted by the land drainage. Surface water data does not indicate existing elevated contaminant concentrations that may be attributed to the Site land use. Proposed cutting may increase dewatering effect beneath the service station and increase flux of contamination. Potential contaminants in the groundwaters and surround soils may be mobilised during ground disturbance works. Further investigation is recommended to confirm any potential risk.
		Surface water run-off (5)	Low	Moderate	Moderate to low	Surface water run-off may deteriorate the quality of surface water. Construction process to adopt surface water control and management.
	Operational		1			

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment				
	Maintenance Workers (B)	Direct dermal(1)	Unlikely	Moderate	Low	Areas outside the motorway hardstanding are likely to receive topsoil cover and vegetation establishment, reducing potential of exposure. Exposure duration will be short term only. Site specific risk assessment will be required in line with H&S guidance. This will enable safe methodology and appropriate level of PPE to be put in place. As such all-risks will be duly considered and suitably mitigated. Hydrocarbon vapours that may be released by the residual hydrocarbon contamination post shallow remedial works would accumulate				
		Ingestion(3)	Unlikely	Moderate	Low	within confined spaces such as inspection manholes. Migration of hydrocarbon from off site sources may				
		Inhalation of soil dust (2)	Unlikely	Moderate	Low	continue following transport mechanism of the groundwaters. Further investigation is recommended to				
		Inhalation of hydrocarbon vapours (2)	Unlikely	Moderate	Low	confirm any potential risk.				
	Future Motorway Users (A) and	Direct dermal (1)	Unlikely	Moderate	Low	During operation there is the possibility of short term exposure only.				
Services users	Services users (staff/personnel) (C)	Ingestion(3)	Unlikely	Moderate	Low	Further investigation is recommended to confirm any potential risk.				
		Inhalation of soil dust (2)	Unlikely	Moderate	Low					
	Groundwater (Ca)	Migration (4)	Low	Moderate	Moderate to low	Dewatering works associated with cutting (if below groundwater level) may draw additional contamination from the source areas (fuel service). Further investigation is recommended to confirm any potential risk.				

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
	Surface water (land drainage) (D)	Saturated flow within groundwater (4)	Low	Moderate	Moderate to low	Perched (shallow) groundwater may be intercepted by the land drainage. Surface water data does not indicate existing elevated contaminants that may be attributed to the Site land use. Proposed cutting may increase dewatering effect beneath the service station and increase flux of contamination. Further investigation is recommended to confirm any potential risk.

10 Conclusions and Recommendations

- 10.1.1 Limited ground Investigations have been at the Site to assess risks from land contamination associated with the construction and operation of the Scheme including human health and controlled waters.
- 10.1.2 Gross contamination associated with the Site's historical and current use has not been identified. Visual or olfactory evidence of oil/fuel contamination within the soils or bedrock has not visually been reported within the borehole records.
- 10.1.3 The review of the existing information indicates that the in-fill materials used for the construction of the services, if present, comprises reworked Head Deposits. As such it is unlikely to pose a viable risk to the Scheme.
- 10.1.4 In order to confirm the moderate to low risks associated with the Site in relation to both construction and operational phases, and the suitability for reuse within the Scheme, it is recommended that supplementary intrusive investigations are undertaken.
- **10.1.5** The investigatory works should mainly target the area of proposed works but should also consider the area within the confirmed land take for the Scheme.
- **10.1.6** The results of the recommended supplementary investigations should be assessed in relation to identified receptors and inform the selection of appropriate health and safety and mitigation measures for the construction works and operational phase, if required.

10.2 Recommendations

- 10.2.1 Only limited ground investigation has been undertaken at the Site and although the likelihood of any contamination within the land take at the Site is relatively low, due the remote locations to the potential sources, localised contamination may have occurred. As such it is recommended that a supplementary ground investigation is undertaken to verify risk levels described in this report. Should contamination be identified that could cause an unacceptable risk to the identified receptors, then remedial requirements would be identified within a remedial strategy for the Scheme.
- **10.2.2** A remediation strategy for the Scheme should be developed that for this Site includes:-
 - Addressing potential human health risk and controlled water risk identified by the proposed additional ground investigation.
 - Dealing with unexpected contamination.
 - Verification sampling strategy to confirm suitability for soils for retention / reuse.
 - Control measures to prevent risks to construction workers and the general public during construction.
 - Verification of imported topsoils.
- 10.2.3 The remediation strategy should include a remediation options appraisal, remediation implementation plan and remediation verification plan.

10.2.4 The remediation strategy should be supported by a Scheme wide Material Management Plan prepared in accordance with CL:AIRE Code of Practice (CL:AIRE, 2011).

11 References

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12 Glossary

BF Blast Furnace

BGS British Geological Survey

BOD Biochemical Oxygen Demand

BOS Basic Oxygen Slag

BTEX Benzene, Toluene, Ethylbenzene and Xylene

CAT Cable Avoidance Tool

CDM Construction Design Management

CH₄ Methane

CLEA Contaminated Land Exposure Assessment

CO₂ Carbon Dioxide

CO Carbon Monoxide

COD Chemical Oxygen Demand

CSM Conceptual Site Model

DMRB Design Manual for Roads and Bridges

DO Dissolved Oxygen

DQRA Detailed Quantitative Risk Assessment

DWS Drinking Water Standard

EC Electrical Conductivity

EIA Environmental Impact Assessment

ES Environmental Statement

ESG Environmental Scientifics Group

EQS Environmental Quality Standard

FTIR Fourier Transform Infrared (spectroscopy)

GAC Generic Assessment Criteria

GDR Geotechnical Design Report

GIR Ground Investigation Report

GRO Gasoline Range Organics

LEL Lower Explosive Limit

LOD Limit of Detection

mAOD Metres Above Ordnance Datum

mb Millibars

mbGL Metres below Ground Level

MTBE Methyl Tert-butyl Ether

NRW Natural Resources Wales

ORP Oxidation Reduction Potential

O₂ Oxygen

OS Ordnance Survey

PAH Polycyclic Aromatic Hydrocarbon

PCB Polychlorinated Biphenyl

PCSM Preliminary Conceptual Site Model

PID Photo Ionisation Detector

PPE Personnel Protection Equipment

SGVs Soil Guideline Values

SSAC Site Specific Assessment Criteria

SSSI Site of Special Scientific Interest

SVOCs Semi-Volatile Organic Compounds

TOC Total Organic Carbon

TPH Total Petroleum Hydrocarbon

TPH CWG Total Petroleum Hydrocarbon Criteria Working Group

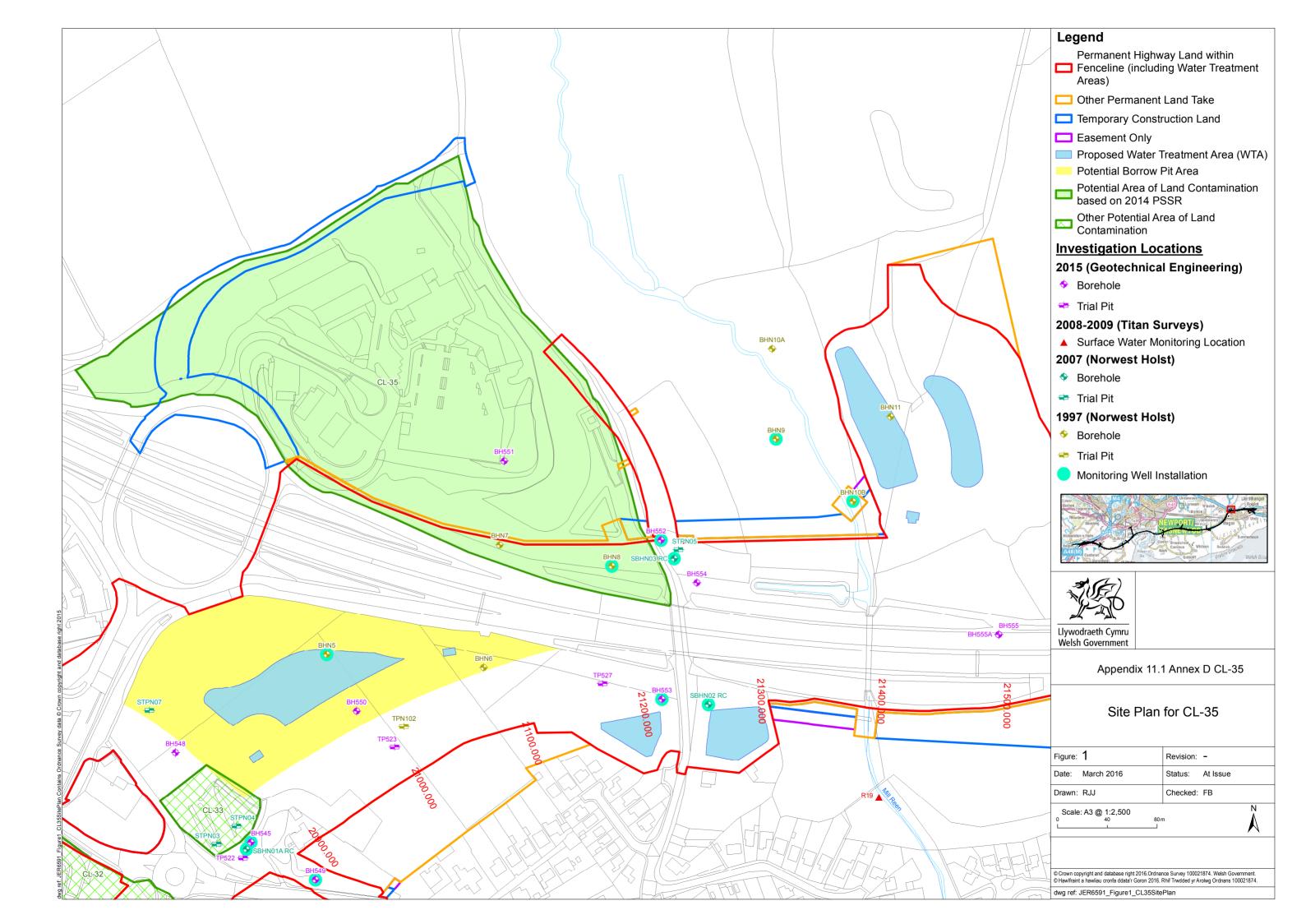
UKAS United Kingdom Accreditation Service

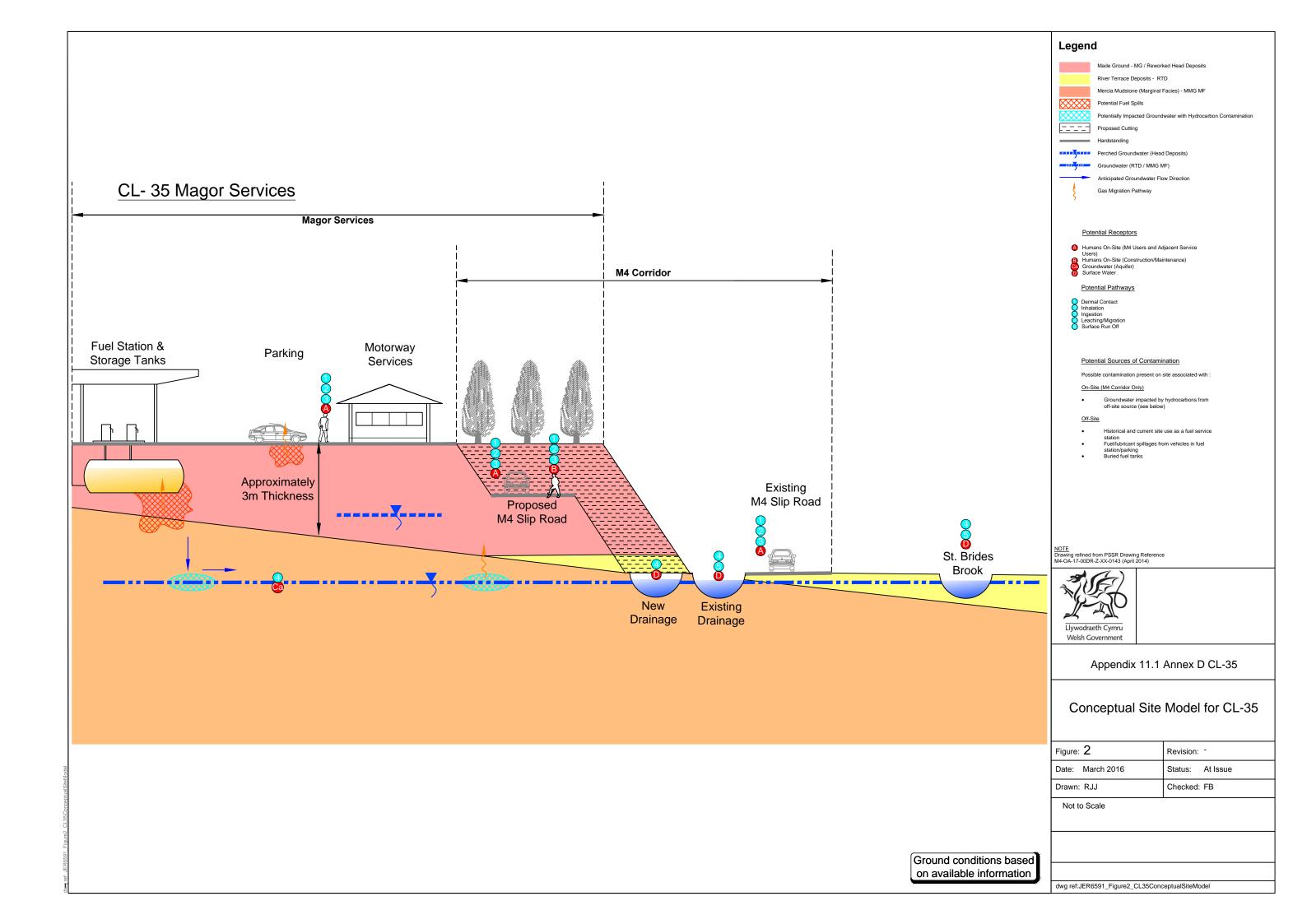
VOCs Volatile Organic Compounds

WFD Water Framework Directive

UXO Unexploded Ordnance Survey

Figures





Appendices

Appendix 1

Exploratory Records



Borehole No.

BHN7

Sheet 1 of 3

Contract No.

Project

Client

Consultant

F10895

M4 Relief Road Magor to

Castleton Stage 2

Welsh Office

Ove Arup and Partners

Method

Drilling Rig

Driller Logged by

Core barrel Core bit Rotary Coring

Knebel 77 E.D

T.R/C.D P

Saw Tooth

.R/C.D

Ground Level

Coordinates

Orientation
Date Started

342203.2 E

187870.0 N

18.00m AOD Vertical

Date Started 31/10/1997
Date Completed 01/11/1997

Description of Strata	Legend	Depth Below G.L.	O.D. Level		ng and opling	TCR	SCR	RQD	臣	SPT N & depth	Insta
Soft reddish brown sandy CLAY (drillers description). (Head Deposits)											
										S4 1.00_ 1.45	
										S5 2.00_ 2.45	
Yellowish brown with occasional fine to medium gravel size		3.00	15.00			<u> </u>			NI 0	\$52 3.00_ 3.45	
vugs thinly to medium sub-horizontally bedded slightly to moderately weathered DOLOMITE moderately strong to strong with medium spaced very thin to thin beds of grey dolomitic limestone with closely spaced sub-horizontal discontinuities planar rough tight. (Marginal Facies of			 	3.	00 4.30	45	23	11	NI O NI	-	
Mercia Mudstone Group)from 3.00 to 3.10m completely fractured			- - - - -			-				-	
from 3.20 to 3.32m completely fractured			1.1.1.								
from 3.45 to 3.59m completely fractured				4.	30 5.90	98	81	58	6	-	
from 4.30 to 4.42m completely fracturedfrom 4.30m medium spaced thin beds of			 							-	
reddish yellow very sandy dolomite			- - -	5.	90 6.30	78	0	0	NI		
from 5.90 to 6.30m completely fractured			- - - - -						5	-	
from 6.94 to 7.30m moderately to highly weathered				6.	30 7.80	98	84	47	1		
from 7.30m slightly weathered			- -						1		
			-	7.	80 8.20	100	95	68	2		
		9.26	- - - - - - - - - 8.74	8.	20 9,70	40	39	33	8		
LIMESTONE As Sheet 2		3							0 NI-	-	

NB All depths in metres, all diameters in millimetres.

See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form NH ROTARY LOG

Version 1.00

Revised 16/09/96



Borehole No.

BHN7

Sheet 2 of 3

Contract No.

F10895

M4 Relief Road Magor to Castleton Stage 2

Client

Consultant

Project

Welsh Office

Ove Arup and Partners

See header sheet for details of drilling, progress and water

strikes. See legend sheet for key to symbols.

Method

Rotary Coring

Drilling Rig Knebel 77

Driller Logged by Core barrel

Core bit

E.D T.R/C.D

P

Saw Tooth

Coordinates

Ground Level

Orientation

Date Started

342203.2 E

187870.0 N

18.00m AOD

Vertical

31/10/1997 Date Completed 01/11/1997

Form

Version

Revised

NH ROTARY LOG

1,00

16/09/96

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Coring and Sampling	TCR	SCR	ZĞ.	댎	SPT N & depth	Ins
Yellowish brown thinly sub-horizontally bedded slightly to moderately weathered sandy DOLOMITE strong with occasional			_	9.7 0 10.40	-99-	-76 -	 41	3		13
fine to medium gravel size vugs with medium spaced very		10.40	7.60	 	 			-		13
thin to thin beds of reddish brown fine to medium grained			-				l	NI		13
silty dolomitic sandstone with closely to medium spaced			-	10,4011.10	90	30	26			扫
sub-horizontal discontinuities planar rough tight.								1	· ·	日
(Marginal Facies of Mercia Mudstone Group)		11.10	6.90				-	-	•	1-1
								6		1-1
Yellowish brown thinly to medium sub-horizontally bedded			_	11.1012.00	97	59	32	NI		
slightly to moderately weathered DOLOMITE strong with			_			1				-[-]
occasional fine to medium gravel size vugs and medium			-					2		7-3
spaced very thin to thin beds of grey dolomitic limestone	\ -\-\-		_		ļ	ļ			-	13
with closely spaced sub-horizontal discontinuities planar			_					2		1-1
rough tight.			-					NI_		-
(Marginal Facies of Mercia Mudstone Group)			_				-	5		그-다
F 10 40 4- 10 90			-	12.0013.50	100	75	48		i	13
from 10.40 to 10.80m completely fractured			-				ĺ			1-1
		l	_						-	
Yellowish brown occasional fine to medium gravel size vugs		-	-]			2		1-1
thinly to medium sub-horizontally bedded slightly to]	-					}		13
moderately weathered very sandy DOLOMITE moderately strong			_				-			13
to very strong with medium spaced thin beds of reddish		İ	-		l					琩
brown fine to medium grained dolomitic sandstone and medium to widely spaced thin beds of reddish brown fine to			-	13.5014.30	100	84	60	4		1-1
coarse grained dolomitic sandstone conglomerate with		Ì	-						-	1-1
closely to medium spaced sub-horizontal discontinuities			-							-[]
planar rough tight to slightly open. (Marginal Facies of		· · · · · · · ·	-							7-7
Mercia Mudstone Group)	╎╎╏╸		-	1						1-1
			-					l		1-1
from 11.43 to 11.63m completely fractured			-	14.3015.70	100	86	27	19	_	
• •	<u> </u>		-							급
from 12.27 to 12.37m completely fractured			-				İ			1-4
			-							43
from 14.45m very closely to closely spaced			-							1-1
sub-horizontal discontinuities planar rough tight			-							13
from 14.90			-						-	
from 14.80m moderately weathered			-					15		13
			-	15.7017.20	99	71	21	{		1-1
		ł	-							
		1	-					NI		7-3
			-			1		\sqcup		1-1
			-			-		3	-	11
at 17.20m very strong		}	-				\vdash	 		計
- "			_					7		긤
			-				-			
		17.89	- 0.11					3		1-1
Reddish brown fine to medium grained thinly to medium	1::::::	17.02	- 0.11	17.2018.70	31	26	7			[]
sub-horizontally bedded slightly weathered dolomitic silty			_						_	1-1
SANDSTONE strong with widely spaced thin beds of dolomitic		ļ	-					7		13
sandstone conglomerate and greyish pink to coarse grained		ļ	_							[-]
sandstone with closely spaced sub-horizontal		ŀ	: 1			L		I		<u></u>
discontinuities planar rough tight		-	-							1-1
(Marginal Facies of Mercia Mudstone Group)	[::::::		_						_	1-1
**	[:::::::	<u> </u>	:							
		ŀ	-	18.7020.20	95	92	45	وا		
	::::::	F	- 1	10.7020.20	~	^2	"	[
		ļ	-							扫
		H	-			l	l	i l		



Borehole No.

BHN7

Sheet 3 of 3

Contract No.

Project

Client

Consultant

F10895

M4 Relief Road Magor to

Castleton Stage 2

Welsh Office

Ove Arup and Partners

Method

Rotary Coring

Drilling Rig Driller

Core bit

Knebel 77 E.D

Logged by T.R/C.D Core barrel

P

Saw Tooth

Coordinates

342203.2 E

187870.0 N

Ground Level

18.00m AOD

Orientation

Vertical

Date Started Date Completed 31/10/1997 01/11/1997

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Coring and Sampling	ICR	SCR	RQD	Ħ	SPT N & depth	Inst
Reddish brown fine to medium grained thinly to medium sub-horizontally bedded slightly weathered dolomitic silty SANDSTONE strong with widely spaced thin beds of dolomitic sandstone conglomerate and greyish pink to coarse grained sandstone with closely spaced sub-horizontal discontinuities planar rough tight. (Marginal Facies of Mercia Mudstone Group)		20.20	-2.20						-	
Rotary drilling complete at 20.20 m.			 -						-	
									-	- - - - - - - - - - -
			- - - -						<u>-</u> -	
			- - - - - -						-	
			- - - - -						: : :	
			-						- - -	
			- · ·						-	
									<u>-</u>	
			- 						- - - -	
			- - - - - -						: - - :	
			<u>-</u>						-	-

NB All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form NH ROTARY LOG Version 1.00 16/09/96 Revised



Borehole No.

BHN8

Header

Contract No.

Project

Client

Consultant

F10895

M4 Relief Road Magor to Castleton Stage 2

Welsh Office

Ove Arup and Partners

NB All depths in metres, all diameters in millimetres,

water strike rise time in minutes.

Method

Core bit

Rotary Coring Knebel 77

Drilling Rig Driller

E.D

Logged by Core barrel

Ρ Saw Tooth

T.R/C.D

Coordinates

Ground Level

Orientation

342293.3 E

187853.0 N

12.20m AOD

Vertical

Date Started Date Completed

Form

Version

Revised

ROTARY HEADER

2.00

25/06/1997

01/11/1997 02/11/1997

		F	PROGRESS				DRI	LLING DET	AILS	
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To depth	Flush type	Flush return	Core diameter
01/11/1997 02/11/1997 02/11/1997	1600 0800 1600	10.00 10.00 15.00	4.15 4.15 4.15	Dry 5.20 5.69		4.00 7.50	7.50 15.00	air & mist air & mist	good lost	92 92
				·						

	CAS	ING					WATER	STRIKES			
Hole diameter	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
120	15.00	140	5.15		_						
							İ				
								·			
							٠.	vi i		-	
									•		

 			 				.L	 L
GENERAL	NOTES	4,1				SPT D	ETAILS	
			Depth	Туре	Incremental	blow count/per	netration in mm	
			1.00 2.00 3.00 4.00	S	50/31mm (1,1 N=19 (4,5,5,4 25/10mm (12,45/150mm (1	1,5,5) ,13,25)		
	gr.				÷			v .
	·				·			
	·							



Borehole No.

BHN8
Sheet 1 of 2

Contract Project

Client

F10895

M4 Relief Road Magor to

Castleton Stage 2

Welsh Office

Method Drilling Rig

Driller

Rotary Coring

Knebel 77

E.D T.R/C.D

Coordinates

342293.3 E

187853.0 N

Ground Level 12 Orientation V

12.20m AOD Vertical 01/11/1997

Consultant

Ove Arup and Partners

Core barrel Core bit

Logged by

P

Saw Tooth

Date Started Date Completed

02/11/1997

	·	Depth			Τ	: T					
Description of Strata	Legend	Below G.L.	O.D. Level	Coring and Sampling	TCR	SCR	Mg Mg	E	SPT & dep		Instali ation
Brown sandy CLAY with cobbles (drillers description). (Head Deposits)	XO. X									-	
(Treat Deposits)			_							1	
											3 3
			_						850/31mm	1.00	4
										1,18	
D. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C. L. C.	<u>*0-*</u> (1.53	10,67								
Reddish brown very sandy CLAY (drillers description). (Head Deposits)			-							- <u>-</u>	3 [
W. A. J. CANDORONE (1.11 1 1 1 1 1 1		2.05	10,15		ŀ				819	2.00	
Weathered SANDSTONE (drillers description).											
			- !							-	3 [
			<u> </u>						S25/10mm	3.00	3 [
			-						veriali	3.16	
			<u> </u>							-	
					ŀ					7	
		4.00	8.20			<u> </u>	ļ.,		C45/150mm	4.00_	
Yellowish brown thinly sub-horizontally bedded slightly to moderately weathered sandy DOLOMITE moderately strong to										4.17	X
strong with occasional fine to medium gravel size vugs and closely spaced very thin to thin beds of reddish brown fine			-							4	X K
to medium grained dolomitic sandstone and medium spaced thin			-	4.00 5.5	0 100	75	25	15]	
beds of grey dolomitic limestone with very closely to closely spaced sub-horizontal discontinuities planar rough			-							-	
tight. (Marginal Facies of Mercia Mudstone Group)										1	
			-							‡	
			-	5.50 6.5	0 91	81	77	4		1	
			-				''	ľ			
		6.50	5.70							4	
Reddish brown fine to coarse grained thinly to medium sub-horizontally bedded slightly to moderately weathered	00000		-	6.50 7.0	0 100	60	60	NI		1	
dolomitic sandstone CONGLOMERATE moderately strong to	00000 00000 00000		-		ļ		_	2		_]	
strong with occasional fine to medium gravel size vugs and medium spaced very thin to thin beds of grey dolomitic	00000				Ì					1	
limestone and reddish brown fine to coarse grained dolomitic sandstone and yellowish brown dolomite with	00000		-							4	
closely spaced sub-horizontal discontinuities planar rough	00000 00000 00000		-	7.00 8.5	0 99	83	51	9]	
tight. (Marginal Facies of Mercia Mudstone Group)	00000		-							1	
from 6.50 to 6.75m completely fractured	00000										
from 8.50 to 8.75m completely fractured			- -		-	-		NI		7	
	00000		-					3		1	
from 9.10 to 9.20m completely fractured	50000 50000 50000		-	8.50 10.0	0 66	37	25	NI			
	00000		-					3]	
	00000		-					NI		=	XX
NB All denths in metres all diameters in millimetres	00000		<u>-</u>					141			XX

NB All depths in metres, all diameters in millimetres.

See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

 Form
 NH ROTARY LOG

 Version
 1.00

 Revised
 16/09/96



Borehole No.

BHN8

Sheet 2 of 2

F10895

Method

Coordinates

Contract No. Rotary Coring 342293.3 E Project M4 Relief Road Magor to **Drilling Rig** Knebel 77 187853.0 N Castleton Stage 2 Driller E.D Ground Level 12.20m AOD Client Welsh Office Logged by T.R/C.D Orientation Vertical Core barrel Date Started 01/11/1997 Ove Arup and Partners Consultant Core bit Saw Tooth Date Completed 02/11/1997

	1	Depth				T				
Description of Strata	Legend	Below G.L.	O.D. Level	Coring and Sampling	TCR	SZ	RQD	臣	SPT N & depth	Install- ation
Reddish brown fine to coarse grained thinly to medium sub-horizontally bedded slightly to moderately weathered dolomitic sandstone CONGLOMERATE moderately strong to strong with occasional fine to medium gravel size vugs and	00000	10.20	2.00	10.00 10.60	88 (55	48	0 4		
medium spaced very thin to thin beds of grey dolomitic limestone and reddish brown fine to coarse grained dolomitic sandstone and yellowish brown dolomite with closely spaced sub-horizontal discontinuities planar rough tight. (Marginal Facies of Mercia Mudstone Group) Reddish brown thickly sub-horizontally bedded slightly	00000	11.25	0.95	10.6011.90	76 6	53	63	0		
weathered dolomitic sandstone CONGLOMERATE, strong with occasional gravel size vugs and medium sub-horizontal discontinuities planar rough tight. (Marginal Facies of Mercia Mudstone Group)from 10.60 to 10.75m completely fractured			-	11.90 13.50	88 8	37	78	7	-	
Reddish brown fine to medium grained thinly to medium sub-horizontally bedded slightly to moderately weathered dolomitic SANDSTONE, strong with occasional fine to medium gravel size vugs and closely spaced thin to medium beds of grey dolomitic limestone, yellowish brown dolomite and sandstone dolomite conglomerate with medium spaced sub-horizontal discontinuities planar rough tight. (Marginal Facies of Mercia Mudstone Group)		13.50	-1.30	13.5014.40	100 6	51	34	4 NI	-	
Reddish brown medium sub-horizontally bedded moderately to highly weathered slightly sandy MUDSTONE, weak to moderately weak with widely spaced very thin beds of yellowish brown silty sandy dolomite with closely to medium spaced sub-horizontal discontinuities planar rough tight. (Marginal Facies of Mercia Mudstone Group)		15.00	-2.80	14.4015.00	83 5	55	55	1	-	
from 14.10 to 14.50m highly weathered very weak completely fractured Rotary drilling complete at 15.00 m.									-	
	·								-	-
			-							
										-
			- - - -						-	- - - - - -
NR All denths in metres all diameters in millimetres			- - -							-

NB All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form	NH ROTARY LOG
Version	1.00
Revised	16/09/96



Ove Arup & Partners Ltd

Consultant

Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Hole ID.

SBHN03 RC

Header

12/12/2007

Contract No. F15056 Method Rotary Coring Coordinates 342343.57 E Project New M4 - Second Preliminary GroundDrilling Rig Hands England Tractor 187858.96 N Investigation TF/SL Ground Level 10.76m AOD Client Transport Wales, Welsh Assembly Logged by DH Orientation Vertical Government Core barrel **PWF** Date Started 06/12/2007

Core bit

		I	PROGRESS			DRILLING DETAILS							
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To depth	Flush type	Flush return	Core diameter			
06/12/2007	1730	5.20	4.20	NR	End of Shift	1.20	6.90	Air/Mist	100%	0.00*			
07/12/2007	0730	4.20	4.20	NR	Start of Shift	6.90	24.15	Air/Mist	100%	92.0			
07/12/2007	1730	6.20	6.10	NR	End of Shift								
08/12/2007	0730	7.00	6.10	0.80	Start of Shift								
08/12/2007	1730	7.60	7.00	0.40	End of Shift								
11/12/2007	0730	9.20	7.00	2.05	Start of Shift								
11/12/2007	1730	14.75	7.00	2.20	End of Shift								
12/12/2007	0730	14.75	7.00	2.10	Start of Shift								
12/12/2007	1730	24.15	7.00	2.15	End ofHole								

PCD

	CAS	SING		WATER STRIKES									
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow		
121	24.15	121	7.00	06/12/2007 07/12/2007		2.20 6.00	NR NR	NR NR	Seepage Seepage	1.20 6.00	NR NS		

GENERAL NOTES	SPT DETAILS

- 1. Service inspection pit hand excavated from GL to 1.20m.
- 2.Rotary Openhole drilling from 1.20m to 9.20m.
- 3.Rotary Coring from 9.20m to 24.15m. 4.19mm piezometer installed tip at 15.00m, with response zone
- from 14.60m to 15.20m. 5.0.00* indicates openhole drilling.

		SELDETAILS		
Depth	Туре	Incremental blow count/penetration	Casing	Water Depth
1.20	S	N=9 (1,2,2,2,3,2)	1.20	NR
2.20	S	N=8 (3,3,3,2,1,2)	2.20	NR
3.20	S	N=8 (1,1,1,2,3,2)	3.20	NR
4.20	S	N=18 (2,3,6,4,3,5)	4.20	NR
5.20	S	N=24 (3,3,4,6,7,7)	5.20	NR
6.10	s	100/130mm (14,11,27,73)	6.10	NR
7.00	S	50/50mm (9,16,50)	7.00	NR

Date Completed

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes.

Form	ARIAL ROTARY HEADER
Version	3.06
Revised	17/12/2007

NORWEST **†**

Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Hole ID.

SBHN03 RC Sheet 1 of 3

Contract No. F15056 Method Rotary Coring Coordinates 342343.57 E Project New M4 - Second Preliminary GrounDdrilling Rig Hands England Tractor 187858.96 N TF/SL Ground Level 10.76m AOD Driller Logged by DH Orientation Vertical Client Transport Wales, Welsh Assembly **PWF** Date Started Core barrel 06/12/2007 Government 12/12/2007 Consultant Ove Arup & Partners Ltd Core bit PCD Date Completed

Description of Strata	Legend	Drilled Length		Coring and Sampling	TCR	SCR	RaD	ட	SPT N & depth	Insta atior
Sandy SOIL. (Driller's description)			-						1.20 1.65 S9	
Sandy claybound GRAVELS. (Driller's description)		2.10	- 8.66 - - - - - - - - -						2.20 2.65 \$8	
									3.20 3.65 S8	
			- - - - - - - - -						4.20 4.65 S18	
SAND and GRAVELS. (Driller's description)		5.20	- 5.56 						5.20 5.65 S24 6.10 6.31 S100/130mm	
Brown angular to rounded fine to coarse GRAVEL of		6.90	_ _ 3.86	6.90 7.00	80	NA	NA		7.00 7.20 -	
sandstone, limestone and mudstone with occasional cobbles of sandstone. (Fluvial Alluvium)from 6.90m to 6.98m 1 No cobble of strong to very strong reddish brown fine to coarse grained sandstonefrom 6.98m to 7.00m assumed zone of core loss		7.78		7.00 7.60	38	NA	NA	NA	S50/50mm	
from 7.23m to 7.60m assumed zone of core loss Moderately strong to strong reddish brown matrix	00000		 	7.60 8.30	100	44	14			-
supported CONGLOMERATE. Clasts are angular to rounded fine to coarse gravel sized fragments of limestone, sandstone, quartz, siltstone and mudstone. Cobble and boulder sized fragments of limestone and sandstone. Matrix of reddish brown limestone. Discontinuities: 1) 0 - 15 deg very closely to medium spaced undulating rough. 2) 20 - 40 deg closely to medium spaced undulating			- - - - - - - - - - - -	8.30 9.20	100	64	34	NI 100 200	21	
rough. (Mercia Mudstone Group ((Marginal Facies)from 8.02m to 8.19m recovered as non intact core (angular medium to coarse gravel sized fragments)	00000		- - - -	9.20 10.30	91	83	74			

NOTES: All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL ROTARY LOG
Version	3.09
Revised	17/12/2007

NORWEST **4**

Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Hole ID.

SBHN03 RC Sheet 2 of 3

Contract No. F15056 Method Rotary Coring Coordinates 342343.57 E Project New M4 - Second Preliminary GrounDdrilling Rig Hands England Tractor 187858.96 N TF/SL Ground Level 10.76m AOD Driller Logged by DH Orientation Vertical Client Transport Wales, Welsh Assembly **PWF Date Started** Core barrel 06/12/2007 Government Ove Arup & Partners Ltd 12/12/2007 Consultant Core bit PCD Date Completed

·	PCD			Date Comple	0.00		, .	2/2007
Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	RaD	SPT N Insta
Remaining Detail: 8.69m - 8.80m:from 8.69m to 8.80m recovered as non intact core (angular to subangular medium to coarse gravel sized fragments) Detail 9.20m - 9.24m:from 9.20m to 9.24m recovered as non intact core (subangular cobble sized fragments)	00000 00000 00000 00000 00000 00000 0000		-	10.30 12.00	96	94		70
from 11.30m to 11.35m recovered as non intact core (angular fine to coarse gravel sized fragments)	00000		- - - - -	10.30 12.00	90	34		
from 11.93m to 11.94m recovered as non intact core (angular fine to coarse gravel sized fragments)	00000			12.00 13.05	100	94		NI
from 12.65m to 12.72m recovered as non intact core (angular cobble sized fragments)	00000		- - - -					
	00000		- - - - -	13.05 13.95	100	88		NI 190 570
from 13.83m to 13.95m recovered as non intact core (angular fine to coarse gravel sized fragments)		13.95	3.19 	13.95 14.15	100	0	0	_
Very weak reddish brown mottled greenish grey MUDSTONE with occasional thick laminations of sandstone. Recovered as stiff slightly gravelly clay. Gravel is angular fine to coarse of sandstone and mudstone. (Mercia Mudstone Group (Marginal Facies))			- - - - - - -	14.15 14.75	100	0	0	NI TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOT
Weak rto moderately strong reddish brown matrix supported CONGLOMERATE. Clasts are angular to subangular fine to coarse of quartz, siltstone, mudstone, sandstone and limestone. Matrix of yellowish brown. Discontinuities 1) 0 -10 deg undulating rough. (Mercia Mudstone Group (Marginal Facies))from 15.40m to 15.75m matrix of reddish brown siltstonefrom 16.00m to 16.50m many voids upto 30mm dia.		15.40	4.64 4.64 	14.75 17.20	98	67	2	50
Weak to very weak thinly Interbedded reddish brown locally yellowish brown SANDSTONE and brown SILTSTONE with thin beds of reddish brown MUDSTONE. Discontinuities 1) 0 - 10 deg very closely to closely spaced undulating rough. (Mercia Mudstone Group (Marginal Facies))from 17.05m to 17.15m recovered as non intact core (gravelly clay. Gravel sized fragments are angular fine to medium of mudstone)		17.05	6.29 	17.20 18.50	86	44	39 1	NI
from 17.20m to 17.29m recovered as non intact core (gravelly clay. Gravel sized fragments are angular fine to medium of mudstone)from 17.37m to 17.41m recovered as non intact core (subangular medium to coarse gravel sized fragments of mudstone)		18.50	7.74 					NI I
from 17.51m to 17.55m recovered as non intact core (subangular fine to coarse gravel sized fragments of siltstone)	XXXXXX XXXXXX XXXXXX XXXXXX	19.35	8.59 - - -	18.50 20.70	90	33	13	

NOTES: All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL ROTARY LOG
Version	3.09
Revised	17/12/2007



Hole ID.

SBHN03 RC Sheet 3 of 3

Contract No. F15056 Method Rotary Coring Coordinates 342343.57 E Project New M4 - Second Preliminary GrounDdrilling Rig Hands England Tractor 187858.96 N TF/SL Ground Level 10.76m AOD Driller Logged by DH Orientation Vertical Client Transport Wales, Welsh Assembly **PWF** Date Started Core barrel 06/12/2007 Government 12/12/2007 Consultant Ove Arup & Partners Ltd Core bit PCD Date Completed

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	RaD	ഥ	SPT N & depth	Install- ation
17.05m - 18.50m : Remaining Detail : 17.64m - 17.67m :from 17.64m to 17.67m recovered as non intact core (subangular medium to coarse gravel sized fragments of	X X X X X X X X X X X X X X X X X X X	20.70	_ _ _ _ _ 					160		
mudstone) Detail 5m - 17.89m :from 17.75m to 17.89m recovered as non intact core (subangular medium to coarse gravel sized fragments of mudstone)		21.24	_ _ _ - 10.48					NI 60 110	,	
Detail 18.17m - 18.32m :from 18.17m to 18.32m recovered as non intact core (gravelly clay. Gravel sized fragments are subangular fine to medium of mudstone)		22.00	_ _ _ _ _ _ 11.24	20.70 22.60	78	56	33	NI 210 300		
18.50m - 19.35m : Very weak reddish brown locally mottled grey MUDSTONE. Recovered as slightly sandy gravel sized fragments subangular fine to coarse of mudstone. (Mercia Mudstone Group ((Marginal Facies)										
19.35m - 20.70m : Weak indistinctly laminated reddish brown SILTSTONE. Discontinuities 1) 0 - 10 deg very				22.60 24.15	98	98	82	30 140 370		
closely to closely spaced undulating rough. (Mercia Mudstone Group (Marginal Facies)) Detail 19.36m - 19.40m :from 19.35m to 19.40m 1 No incipient fracture 80 - 90 deg undulating stained grey green				22.00 24.10	90	30	02			
Detail 19.40m - 19.43m :from 19.40m to 19.43m recovered as non intact core (subangular fine to coarse gravel sized fragments) Detail 19.57m - 19.62m :from 19.57m to 19.62m 1 No		24.15	-13.39 -							
discontinuity 90 deg undulating rough stained greyish green Detail 20.01m - 20.01m :from 19.80m to 19.85m										
recovered as non intact core (angular coarse gravel sized fragments) Detail 20.02m - 20.10m :from 20.00m to 20.10m 1 No discontinuity 85 deg undulating rough Detail 20.22m - 20.24m :from 20.22m to 20.24m 2 No										
thick laminations of vellowish brown limestone Detail 20.30m - 20.47m :from 20.30m to 20.47m recovered as non intact core (angular fine to coarse gravel sized fragments)from 19.80m to 19.85m recovered as non intact core										
(angular coarse gravel sized fragments)from 20.00m to 20.10m 1 No discontinuity 85 deg undulating roughfrom 20.22m to 20.24m 2 No thick laminations of										
yellowish brown limestonefrom 20.30m to 20.47m recovered as non intact core (angular fine to coarse gravel sized fragments)										1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Weak to medium strong yellowish brown speckled black locally stained reddish brown medium grained LIMESTONE. Discontinuities 1) 0 - 10 deg closely spaced undulating rough. (Mercia Mudstone Group (Marginal Facies))from 20.70m to 20.80m 1 No incipient fracture 80 deg undulating										JIIIII
Weak reddish brown mottled greenish grey MUDSTONE. Discontinuities: 1) 0 -10 deg very closely to medium spaced undulating rough. (Mercia Mudstone Group (Marginal Facies))from 21.30m to 21.33m 1 No very thin bed of reddish										- - - - - - -
brown siltstone, 1 No discontinuity 60-70 deg undulating rough										

NOTES: All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL ROTARY LOG
Version	3.09
Revised	17/12/2007



Norwest Holst Soil Engineering Ltd. TRIAL PIT LOG

Hole ID.
STPN05
Sheet 1 of 1

Contract No. F15056 Method Machine Excavated Coordinates 342346.86 E

Project New M4 - Second Preliminary Ground 187866.41 N

Investigation Fauinment JCB 3CX Ground Level 10.55m AOD

Client Transport Wales, Welsh Assembly Government Logged by WA Date Completed 30/11/2007

	Description of Strata	Legend	Depth Below G.L.	Datum Level	5	Sampling	Re	marks	
gravelly CLA`	irm brown silty slightly sandy slightly Y. Gravel is subangular to subrounded fine sandstone, siltstone and limestone. (Head		0.40	- - - 10.15 - - -	D1 B2	0.50 0.50	-		
Deposits) Orangish bro	own fine SAND with low cobble content, subangular of limestone. (Head Deposits)		1.30	- - - - - 9.25 -	D3	1.30	-		
Soft brown s	andy gravelly CLAY. Gravel is subangular to fine to coarse of limestone. (Head Deposits)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.80	- 8.75 - 8.75 	D4 B5	2.00 2.00			
rounded fine	ine to coarse SAND and subangular to to coarse GRAVEL of limestone, sandstone, quartz. (Head Deposits)		2.60	7.95 - 7.95 	D6 B7	2.50 2.50			
	plete at 4.00 m.		4.00	- - - - - - - - - 6.55	D8	3.50	- - - - -		
							- - - - - - - - - - - - - - - - - - -		
ability	Heavy collapse from 2.50m all faces			_		Sk	etch Plan of Tri	al Pit	
oring	None used				E	★ 0.60m	3.10m	>	В
Groundwater None encountered during excavation						Y	С	Bearing -	

NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TPLOG
Version	3.06
Revised	17/12/2007



Norwest Holst Soil Engineering Ltd. HAND VANE AND HAND PENETROMETER TESTS

Hole ID.

STPN05 Data Sheet

342346.86E

Vertical

Contract No. F15056 Method Machine Excavated Coordinates Project

New M4 - Second Preliminary Ground 187866.41 N Investigation

Equipment JCB 3CX 10.55m AOD Ground Level

Client Transport Wales, Welsh Assembly Orientation Government

Logged by WA Date Started 30/11/2007 Consultant Ove Arup & Partners Ltd Date Completed 30/11/2007

	Hand Vane			Ha	and Penetrometer	
Depth	Test No	Peak	Remoulded	Depth	Test No	Result
1.00 1.00 1.00 2.00 2.00 2.00	No 01 02 03 04 05 06	80.0 100.0 60.0 100.0 110.0 120.0	60.0 20.0 40.0 100.0 100.0 120.0		No	

NOTES: All depths in metres, all diameters in millimetres, test results in kPa.

Form	ARIAL HANDVANE/PEN
Version	3.03
Revised	18/01/2007

BOREHOLE LOG

SITE



CLIENT WELSH GOVERNMENT

> M4 CORRIDOR AROUND NEWPORT Sheet

Start Date 25 February 2015 Easting 342206.7 Scale 1:50

27 February 2015 **End Date** Northing 187937.5 Ground level 16.95mOD Depth 13.20 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	If	instru -ment	description	depth (m)	reduce d level (m)	legei
25/02/15 1300hrs	1B 2D* 3B	0.00 - 0.40 0.00 - 0.40 0.40 - 0.80	- - -	Vo 1.2				Grass over reddish brown slightly sandy slightly gravelly CLAY with rare rootlets (up to 1mm diam). Gravel is assubangular medium and coarse sandstone. (HDD)	0.40	16.55	2 0
	4D* 5B 6D*	0.40 - 0.80 0.80 - 1.20 0.80 - 1.20	- - - -	Vo 1.9 Vo 1.9				Reddish brown silty sandy subangular and subrounded fine to coarse sandstone GRAVEL with low angular sandstone cobble content and rare rootlets (up to 1mm	0.80	16.15	2, D
	7X	1.20 - 1.65 1.20 - 1.60	- Nil - - -	C 12	83	NI		Light grey clayey sandy subangular and subrounded fine to coarse sandstone GRAVEL with medium subangular	1.20 <u>-</u> - - 1.60 <u>-</u>	15.75	\(\frac{\partial}{\partial}\)
25/02/15 1700hrs	8C 9C	1.60 - 2.20 2.20 - 2.30	- Nil - - - Nil		32 32 100 100	80 190		sandstone cobble content. (MMMF) Weak light brown and light reddish brown BRECCIA recovered non intact as angular fine to coarse gravel. Clasts are angular fine to coarse gravel of limestone and	- - - -		
26/02/15 0900hrs 2.00m	10C	2.30 - 3.20	- - - -		72 32 13			sandstone. (MMMF) 1.20 - 1.80m: Recovered non intact as sandstone gravel.	- - - -		Δ
	11C	3.20 - 3.38 3.20 - 4.20	- - - - - - - - - - - - - - - - - - -	C*176	100 92 76	250 90 250 570		Strong light brown, light grey and pinkish brown BRECCIA composed of 60-70% very angular to subangular fine to coarse gravel and cobbles of calcareous mudstone and siltstone. Matrix is light brown with frequent locally abundant voids (up to 2mm). Fractures are 40-60° closely spaced planar rough locally non intact. (MMMF) 3.15 - 3.40m: Medium strong purplish brown fine and medium sandstone. 3.39m: Contact 50°.	3.40	13.55	
	12C	4.20 - 5.70	- - 3.20 - - - - - - -		100 79 74			Weak and medium strong light pinkish brown, yellowish brown, grey and red BRECCIA composed of 60-80% angular to subrounded fine to coarse gravel and cobbles of siltstone, sandstone and quartzite. Matrix is light brown and orangish brown with 2-5% voids (up to 10mm). Fractures are 10-30° rarely 50-70° closely and medium spaced planar rough frequently stained dark orangish brown and black. (MMMF)	- - - - - - - - -		
	13C	5.70 - 7.20	- - - - - - - - - - - - - - - - - - -		100 83 83			5.45 - 5.80m: Drilling disturbed. Recovered non intact.	- - - - - - - - -		
	14C	7.20 - 8.70	- - - - - - 3.20		100 85 85				- - - - - - - - -		
			_ _ _						_ _ _		

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (113mm) 1.20-1.60m. Waterflush rotary core drilled (116mm) 1.60-

13.00m. CASING: 140mm diam to 3.20m.

BACKFILL: On completion, hole backfilled with bentonite pellets 13.20-0.20m and local materials 0.20-0.00.

REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-3.20m. No anomalies encountered.

MMG = Mercia Mudstone Group. Weathering zone after Chandler RJ and Forster CIRIA C570; Engineering in Mercia Mudstone (2001).

EXPLORATORYHOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater notencountered

CONTRACT 30238

AGS

CHECKED EC

30238 YODA.GPJ TRIALJH.GPJ GEOTECH.GLB 16/07/2015 16:12:23 UB

Geotechnical Engineering Limited

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

SITE 2 of 2 M4 CORRIDOR AROUND NEWPORT Sheet

Start Date 25 February 2015 Scale Easting 342206.7 1:50

27 February 2015 End Date Northing 187937.5 Ground level 16 95mOD Denth 13 20 m

	27	Februa				Nort						1	
progress date/time water depth	no & type	depth from	to	casing depth (m)	test type & value	samp. /core range	If	instru -ment	description	n	depth (m)	reduce d level (m)	lege
	15C	8.70 - 1	10.20	- - - - - - - - - - - - - - - - - - -		100 72 58			8.25 - 8.45m: Recovered nonintac 8.70 - 8.90m: Recovered nonintac		- - - - - - - - - - - - - - - - - - -		
	16C	10.20 -	11.70	- - - - - - - - - - - - - -		100 98 93	80 210 510		Very weak and weak thinly laminal reddish brown mottled greenish grequent greenish grey reduction s Fractures are subhorizontal to 20° closely and medium spaced planar	ey MUDSTONE with pots (up to 5mm). , 50° and subvertical	9.90	7.05	
26/02/15 27/02/15 0905hrs 1.40m	17C	11.70 -	13.20	- - - - - - - - - - -		100 80 80			11.70 - 13.20m: Subverticalfractur 11.80 - 12.10m: Recovered nonin		- - - - - - - - - - - - - - - - - - -		
27/02/15 0950hrs				- - - - - - - - -					Strong reddish brown and light gre SANDSTONE. Subvertical fracture orangish brown with up to 2mm or surfaces. Frequent voids from diss gastropod shells. (MMMF) Borehole completed at 13.20m.	e is planar rough stained ange precipitate on	12.75	4.20	• • •
				- - - - - - - - - - - - -									
				- - - - - - - - - - - -							- - - - - -		
				- - - - - - - - -							- - - - - - - -		
water strike	(m) casi	ing (m)	rose to	- - - - - - - - - (m) ti	me to rise	e (m)	rema		er notencountered.	CONT 302	{18.00} RACT	CHE	CKE

Appendix 2

Soil Laboratory Data

M4CAN Soil Analysis Results & Screening Assessment CL-35 08/07/2015

Sample Reference		BH551
Location Type		
Specimen Depth (m)		0 - 0.4
OD Level (m) (from top of sample range w		16.95
Sample Type	Units	ES
Geology Code		TS
Cluster Code		2015 GI
Inorganics		
Arsenic	mg/kg	20
Boron	mg/kg	<0.4
Cadmium	mg/kg	1.1
Chromium	mg/kg	20
Copper	mg/kg	22
Lead	mg/kg	95
Mercury	mg/kg	0.12
Nickel	mg/kg	22
Selenium	mg/kg	0.52
Zinc	mg/kg	270
Cyanide (total)	mg/kg	<0.5
Cyanide (free)	mg/kg	<0.5
Other		
pH Value	pH Units	7.6
РАН		
Acenaphthene	mg/kg	0.27
Acenaphthylene	mg/kg	0.28
Anthracene	mg/kg	0.12
Benz(a)anthracene	mg/kg	0
Benzo(a)pyrene	mg/kg	0.26
Benzo(b)fluoranthene	mg/kg	0
Benzo(ghi)perylene	mg/kg	0
Benzo(k)fluoranthene	mg/kg	0
Chrysene	mg/kg	0.53
Dibenzo(ah)anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	0.3
Fluorene	mg/kg	0.19
Indeno(123cd)pyrene	mg/kg	<0.1
Naphthalene	mg/kg	0.24
Phenanthrene	mg/kg	0.32
Pyrene	mg/kg	0.18
PAH 16 Total	mg/kg	2.7

Screening Values and Assessment

	Exceeds S4ULs Criteria
X	Laboratory detection level higher than screening criterion

Geological Formation Legend

TC	Tintern Sandstone

No.	No. Analyses	Maximum	Minimum	Location & Depth of	Selected S4ULs	No. Data Exceeding
Analyses	Above LOD	IVIAXIIIIUIII	William	Maximum Concentration	Criteria	S4ULs Criteria
1	1	20	20	BH551 @ 0 - 0.4mbGL	170	0
1	0	None > LOD	None > LOD		46000	0
1	1	1.1	1.1	BH551 @ 0 - 0.4mbGL	190	0
1	1	20	20	BH551 @ 0 - 0.4mbGL	33	0
1	1	22	22	BH551 @ 0 - 0.4mbGL	44000	0
1	1	95	95	BH551 @ 0 - 0.4mbGL	1300	0
1	1	0.12	0.12	BH551 @ 0 - 0.4mbGL	30	0
1	1	22	22	BH551 @ 0 - 0.4mbGL	980	0
1	1	0.52	0.52	BH551 @ 0 - 0.4mbGL	1800	0
1	1	270	270	BH551 @ 0 - 0.4mbGL	170000	0
1	0	None > LOD	None > LOD			1
1	0	None > LOD	None > LOD			1
1	1	7.6	7.6	BH551 @ 0 - 0.4mbGL	6-9	0
1	1	0.27	0.27	BH551 @ 0 - 0.4mbGL	29000	0
1	1	0.28	0.28	BH551 @ 0 - 0.4mbGL	29000	0
1	1	0.12	0.12	BH551 @ 0 - 0.4mbGL	150000	0
1	1	0	0	BH551 @ 0 - 0.4mbGL	49	0
1	1	0.26	0.26	BH551 @ 0 - 0.4mbGL	11	0
1	1	0	0	BH551 @ 0 - 0.4mbGL	13	0
1	1	0	0	BH551 @ 0 - 0.4mbGL	1400	0
1	1	0	0	BH551 @ 0 - 0.4mbGL	370	0
1	1	0.53	0.53	BH551 @ 0 - 0.4mbGL	93	0
1	0	None > LOD	None > LOD		1.1	0
1	1	0.3	0.3	BH551 @ 0 - 0.4mbGL	6300	0
1	1	0.19	0.19	BH551 @ 0 - 0.4mbGL	20000	0
1	0	None > LOD	None > LOD		150	0
1	1	0.24	0.24	BH551 @ 0 - 0.4mbGL	190	0
1	1	0.32	0.32	BH551 @ 0 - 0.4mbGL	6200	0
1	1	0.18	0.18	BH551 @ 0 - 0.4mbGL	15000	0
1	1	2.7	2.7	BH551 @ 0 - 0.4mbGL		0

Appendix 3

Surface Water Data

M4CAN
Surface Water Sample Analysis &
Screening Assessment
CL-35
16/07/2015

Monitoring Round / Location		Scr	eening Crit	eria	E1 / R19	E2 / R19	E3 / R19	E4 / R19
Date Sampled	-				07/12/2007	17/03/2008	23/06/2008	24/09/2008
	Units	EQS	DWS	ccw				
Metals & Non-Metal Inorganics								
Hardness Total	mg/l				200	199	204	228
Calcium Dissolved	mg/l			300000	50	78	51	58
Chromium Dissolved	ug/l		50		<0.22	<0.22	<0.22	<0.22
Copper Dissolved	ug/l	10	2000		<5	<5	<5	<5
Lead Dissolved	ug/l	1.2	10	250	<5	<5	<5	<5
Magnesium Dissolved	ug/l				14	14	17	16
Nickel Dissolved	ug/l	4	20	100	<5	<5	<5	<5
Cadmium Total	ug/l	0.15	5	5	0	0	1.4	0
Zinc Total	ug/l	75		1000	20	10	17	13
BOD	mg/l	5		18	2	<1	<1	1
Nitrite as NO2	mg/l		0.5	1		<0.05	<0.05	<0.05
Nitrate as NO3	mg/l		50	1	15.1	15.06	10.2	13.733
Nitrate as N	mg/l		50	1	3.4	3.4	2.3	3.1
Nitrite as N	mg/l		0.15217	1	<0.1	<0.1	<0.1	<0.1
Nitrogen, Total Oxidised as N	mg/l		50	2	3.4	3.4	2.3	3.1
Sulphate (soluble)	mg/l	400	250	300		36.5	59.2	48.8
Sulphate as SO4	mg/l	400	250	300	17	16	20	17
Phosphate, Ortho as P	mg/l			1	<0.1	0.2	0.8	<0.1
Chloride	mg/l	250	250	300	15	14	12	13
Ammoniacal Nitrogen as N	mg/l	0.6		1	0.06	0.06	0.05	<0.04
pH Value	pH units	6-9	6.5-10	6.8-8.5	8.1	8.1	8.3	7.9
Dissolved Oxygen	%	60			105.1	106.5	98.4	93.8
Oxygen, dissovled	mg/l				11.86	12.24	10.46	10.17
Organics								
MTBE	ug/l					<3		<3
Benzene	ug/l	10	1			<7		<7
Toluene	ug/l	50				<4		<4
Ethyl benzene	ug/l	20				<5		<5
m & p Xylene	ug/l	30				<8		<8
o Xylene	ug/l	30				<3		<3
ТРН	_							
TPH >C6-C8	ug/l				<10	<10	<10	<10
TPH >C8-C10	ug/l				<10	<10	<10	<10
TPH >C10-C16	ug/l				<20	<20	<20	<20
TPH >C16-C24	ug/l				<20	<20	<20	<20
TPH >C24-C40	ug/l				<50	<50	<50	<50
TPH >C6-C40	ug/l				<50	<50	<50	<50

Notes

EQS calcium carbonate 200-250mg/l for heavy metals: chromium, copper, lead, nickel and zinc NDP - No determination possible

Screening Values and Assessment

EQS	Environmental Quality Standards
MRV	Minimum Reporting values
	Exceeds EQS
100	Exceeds DWS
<10	Laboratory detection level higher than screening criterion
BOL/ITA	Exceeds CCW

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Round of Maximum Concentration	No. Data Exceeding EQS	No. Data Exceeding DWS	No. Data Exceeding CCW
4	4	228	199	E4 / R19		0	
4	4	78	50	E2 / R19		0	0
4	0	None > LOD	None > LOD			0	
4	0	None > LOD	None > LOD		0	0	
4	0	None > LOD	None > LOD		0	0	0
4	4	17	14	E3 / R19		0	
4	0	None > LOD	None > LOD		0	0	0
4	4	1.4	0	E3 / R19	1	0	0
4	4	20	10	E1 / R19	0	0	0
4	2	2	1	E1 / R19	0	2	0
3	0	None > LOD	None > LOD			0	0
4	4	15.1	10.2	E1 / R19		0	4
4	4	3.4	2.3	E1 / R19		0	4
4	0	None > LOD	None > LOD			0	0
4	4	3.4	2.3	E1 / R19		0	4
3	3	59.2	36.5	E3 / R19	0	0	0
4	4	20	16	E3 / R19	0	0	0
4	2	0.8	0.2	E3 / R19		2	0
4	4	15	12	E1 / R19	0	0	0
4	3	0.06	0.05	E1 / R19	0	1	0
4	4	8.3	7.9	E3 / R19	0	0	0
4	4	106.5	93.8	E2 / R19	4	0	
4	4	12.24	10.17	E2 / R19		0	
2	0	None > LOD	None > LOD			2	
2	0	None > LOD	None > LOD		0	0	
2	0	None > LOD	None > LOD		0	2	
2	0	None > LOD	None > LOD		0	2	
2	0	None > LOD	None > LOD		0	2	
2	0	None > LOD	None > LOD		0	2	
		1					

M4CAN
Surface Water Sample Analysis &
Screening Assessment
CL-35
16/07/2015

Monitoring Round / Location		Scr	eening Crit	eria	E1 / R19	E2 / R19	E3 / R19	E4 / R19
Date Sampled	_				07/12/2007	17/03/2008	23/06/2008	24/09/2008
	Units	EQS	DWS	ccw				
Metals & Non-Metal Inorganics								
Hardness Total	mg/l				200	199	204	228
Calcium Dissolved	mg/l			300000	50	78	51	58
Chromium Dissolved	ug/l		50		<0.22	<0.22	<0.22	<0.22
Copper Dissolved	ug/l	10	2000		<5	<5	<5	<5
Lead Dissolved	ug/l	1.2	10	250	<5	<5	<5	<5
Magnesium Dissolved	ug/l				14	14	17	16
Nickel Dissolved	ug/l	4	20	100	<5	<5	<5	<5
Cadmium Total	ug/l	0.15	5	5	<0.5	<0.5	1.4	<0.5
Zinc Total	ug/l	75		1000	20	10	17	13
BOD	mg/l	5		18	2	<1	<1	1
Nitrite as NO2	mg/l		0.5	1		<0.05	<0.05	<0.05
Nitrate as NO3	mg/l		50	1	15.1	15.06	10.2	13.733
Nitrate as N	mg/l		50	1	3.4	3.4	2.3	3.1
Nitrite as N	mg/l		0.15217	1	<0.1	<0.1	<0.1	<0.1
Nitrogen, Total Oxidised as N	mg/l		50	2	3.4	3.4	2.3	3.1
Sulphate (soluble)	mg/l	400	250	300		36.5	59.2	48.8
Sulphate as SO4	mg/l	400	250	300	17	16	20	17
Phosphate, Ortho as P	mg/l			1	<0.1	0.2	0.8	<0.1
Chloride	mg/l	250	250	300	15	14	12	13
Ammoniacal Nitrogen as N	mg/l	0.6		1	0.06	0.06	0.05	<0.04
pH Value	pH units	6-9	6.5-10	6.8-8.5	8.1	8.1	8.3	7.9
Dissolved Oxygen	%	60			105.1	106.5	98.4	93.8
Oxygen, dissovled	mg/l				11.86	12.24	10.46	10.17
Organics	<u> </u>							
MTBE	ug/l					<3		<3
Benzene	ug/l	10	1			<7		<7
Toluene	ug/l	50				<4		<4
Ethyl benzene	ug/l	20				<5		<5
m & p Xylene	ug/l	30	<u> </u>			<8		<8
o Xylene	ug/l	30	<u> </u>			<3		<3
ТРН	- O/ ·							
TPH >C6-C8	ug/l				<10	<10	<10	<10
TPH >C8-C10	ug/l				<10	<10	<10	<10
TPH >C10-C16	ug/l				<20	<20	<20	<20
TPH >C16-C24	ug/l				<20	<20	<20	<20
TPH >C24-C40	ug/l				<50	<50	<50	<50
TPH >C6-C40	ug/l				<50	<50	<50	<50

Notes

EQS calcium carbonate 200-250mg/l for heavy metals: chromium, copper, lead, nickel and zinc NDP - No determination possible

Screening Values and Assessment

ſ	EQS	Environmental Quality Standards
ı	MRV	Minimum Reporting values
ı		Exceeds EQS
I	100	Exceeds DWS
ı	<10	Laboratory detection level higher than screening criterion
ı	BOL/ITA	Exceeds CCW

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Round of Maximum Concentration	No. Data Exceeding EQS	No. Data Exceeding DWS	No. Data Exceeding CCW
4	4	228	199	R9 / E4		0	
4	4	78	50	R9 / E4		0	0
4	0	None > LOD	None > LOD			0	
4	0	None > LOD	None > LOD		0	0	
4	0	None > LOD	None > LOD	R8 / E3	0	0	0
4	4	17	14	R9 / E4		0	
4	0	None > LOD	None > LOD		0	0	0
4	1	1.4	1.4	R9 / E3	1	0	0
4	4	20	10	R9 / E4	0	0	0
4	2	2	1	R9 / E4	0		0
3	0	None > LOD	None > LOD			0	0
4	4	15.1	10.2	R9 / E2		0	4
4	4	3.4	2.3	R9 / E2		0	4
4	0	None > LOD	None > LOD			0	0
4	4	3.4	2.3	R9 / E2		0	4
3	3	59.2	36.5	12.1 / Q1	0	0	0
4	4	20	16	R9 / E4	0	0	0
4	2	0.8	0.2	R8 / E3		2	0
4	4	15	12	R9 / E4	0	0	0
4	3	0.06	0.05	12.1 / Q1	0	1	0
4	4	8.3	7.9	R9 / E3	0	0	0
4	4	106.5	93.8	R9 / E2	4	0	
4	4	12.24	10.17	12.1 / Q1		0	
				==:= / ===			
2	0	None > LOD	None > LOD				
2	0	None > LOD	None > LOD		0	0	
2	0	None > LOD	None > LOD		0		
2	0	None > LOD	None > LOD		0		
2	0	None > LOD	None > LOD		0		
2	0	None > LOD	None > LOD		0		
	<u> </u>	.10110 / 100	.10110 / 2010		, j		
				<u> </u>			
							
							Į

Parameter	Unit	No. Analyses	No. Analyses Above LOD	Minimum Concentration	Maximum Concentration	Location & Round with Max. Concentration	EQS	No. Analyses Exceeding EQS
Copper	ug/l	4	0	None > LOD	None > LOD		10	0
Lead	ug/l	4	0	None > LOD	None > LOD		1.2	0
Nickel	ug/l	4	0	None > LOD	None > LOD		4	0
Cadmium	ug/l	4	4	0	1.4	R9 / E3	0.15	1
Zinc	ug/l	4	4	10	20	R9 / E4	75	0
BOD	mg/l	4	4	0	2	R9 / E4	5	0
Sulphate	mg/l	7	7	16	59.2	12.1 / Q1	400	0
Phosphorus	mg/l	4	4	630	696	13.2 / Q1	120	2
Chloride	mg/l	2	2	12	15	R9 / E4	250	0
Ammoniacal	mg/l	4	3	0.05	0.06	12.1 / Q1	0.6	0
рН	pH units	4	4	7.9	8.3	R9 / E3	6-9	0
Dissolved Oxy	%	4	4	93.8	106.5	R9 / E2	60	0

Appendix 4

Site Walkover Photographs



Plate 01: CL35 – Car Park – View Looking North



Plate 02: CL35 – Petrol Filling Station – View Looking West

Client: Welsh Government

Project: M4CaN



Plate 03: CL35 - Car Wash - View Looking North



Plate 04: CL35 – Petrol Filling Station & Access Road – View Looking West

Client: Welsh Government

Project: M4CaN



Plate 05: CL35 – Coach Park – View Looking Northeast



Plate 06: CL35 - Lorry Park - View Looking West

Client: Welsh Government

Project: M4CaN



Plate 07: CL35 – Waste Container



Plate 08: CL35 – Service Compound

Client: Welsh Government

Project: M4CaN



Plate 09: CL35 – Wooded Area Southeastern Section of Site



Plate 10: CL35 – View of Service Station Looking West

ent

Project: M4CaN

Job Ref: JER6591 Checked By:

Date: May 2015

Appendix 5

Relevant Extract of Additional Aerial Photography



Plate 01: Extract of 1991 Aerial Photograph showing construction of the Magor Service Station in progress.

Plate 02:

Client: Welsh Government

Project: M4CaN

Job Ref: JER6591 Checked By:

Date: Oct 2015

Welsh Government

M4 Corridor around Newport

Land Contamination Assessment Report Annex D CL-38 Knollbury Cesspits Land Contamination Assessment Report

M4CaN-DJV-EGT-ZG_GEN-RP_EN-0033

At Issue | March 2016

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1 Introduction

1.1 Background

- **1.1.1** This report relates to the contamination area CL-38 known as 'Knollbury Cesspits' hereafter referred to as the 'Site'.
- **1.1.2** The Site is located between chainage 21,650 and 21,800 (see Figure 1) within a caravan park.

1.2 Reporting Context

- 1.2.1 The Site has been assessed as part of ground investigations and monitoring associated with the wider works for the M4 Corridor around Newport (M4CaN) (hereafter referred to as the 'Scheme'). This report informs the baseline for the environmental impact assessment (EIA) for the Scheme. The EIA is reported in the M4CaN Environmental Statement (ES) of which this document is an appendix to the chapter on Geology and Soils.
- 1.2.2 In 2014, a Preliminary Sources Study Report (PSSR) was prepared as an initial land contamination appraisal (Ove Arup & Partners, 2014) as part of Design Manual for Roads and Bridges (DMRB) Stage 2 Assessments for this Scheme. This identified a number of individual areas that may have been affected by contamination as a result of historical activities at the Site.
- 1.2.3 This report now draws upon information available from the 2015 Supplementary Ground Investigation Works undertaken on behalf of the Welsh Government (Geotechnical Engineering, 2015). This report relates to the area defined in the Site Plan shown in Figure 1.
- 1.2.4 The overarching rationale and approach for the assessment of areas of land along the Scheme with potential contamination is detailed in the Land Contamination Assessment Report (Appendix 11.1 of the ES).

1.3 Objectives

- **1.3.1** The key objectives of this report are set out below.
 - Undertake a risk assessment of the Site and determine whether potential risks to human health or controlled waters could exist based upon the Scheme.
 - Identify any further assessment investigations that are needed in order to refine land contamination risks and inform on the need for remediation.
 - To provide information to support the Ground Investigation Report and Geotechnical Design Report required under DMRB HD22/08 (Highways Agency, 2008).

1.4 Report Structure

1.4.1 The subsequent report structure is as follows.

- Section 2: Site Location and Description This section summarises the Site description.
- Section 3: The Scheme This section details the M4 Corridor around Newport alignment and associated features at the Site.
- Section 4: Site History This section summarises the history of the Site based on historical maps and historical aerial photographs.
- Section 5: Environmental Setting This section summarises the Site description, published geology, hydrology and hydrogeology and relevant environmental information presented in the 2014 PSSR.
- Section 6: Scope of Investigations This section describes previous and supplementary investigations undertaken at the Site.
- Section 7: Ground Conditions This section describes the main findings of the investigations including the ground conditions encountered and significant visual or olfactory evidence of contamination identified.
- Section 8: Contamination Assessment This section describes the findings of the Tier 1 and Tier 2 contamination risk assessment based upon potential contamination sources, potential receptors and potential contaminant linkages and presents the human health and controlled waters assessments.
- Section 9: Refined Conceptual Site Model This section presents the Conceptual Site Model (CSM) for the Site and identifies potential contaminant linkages, based upon the findings of the data presented within Sections 2 to 7.
- Section 10: Conclusions and Recommendations This section provides conclusions concerning the likelihood of land contamination associated with the Site affecting the Scheme and requirements for remediation/mitigation.
- Section 11: References This section details the key reference documents referred to within the text.
- Section 12: Glossary This section details the key terms and acronyms used throughout the report.

2 Site Setting

- 2.1.1 The Site comprises the Beeches Farm Caravan Park which is located immediately to the north west of Beeches Farm off Grange Road to the north of the existing M4. The location and layout of the Site is presented on Figure 1 which includes the three potential areas of land contamination as defined by the 2014 PSSR considered to represent the approximate locations of the three cess pits identified during the 1995 walk over survey.
- 2.1.2 A review of aerial photography in 2015 indicated the caravan park site contains static caravans, access roads and grassed areas and is bounded by tree hedging.
- 2.1.3 No access was gained during the 2014 and 2015 walkover surveys. The 1995 walk over survey identified the presence of 3 No. cesspits within the park described as concrete underground tanks.

3 The Scheme

- 3.1.1 The Site is located on the line of the main alignment at approximate chainage 21,650 to 21,800. Reference should be made to Figure 1 for the Site location in relation to the Scheme.
- 3.1.2 In this area, the new section of motorway would join the existing M4, requiring widening of the existing highway with the resulting new highway encroaching over the southern end of the Site. The intention is that materials arising from the excavation would be removed from their current location and reused within the Scheme.
- 3.1.3 A small borrow pit is also proposed adjacent to the western Site boundary and the areas to the north, east and west are to be used for topsoil stockpiling.

4 Site History

- **4.1.1** The 2014 PSSR historical searches were based on Ordnance Survey plans, literature reviews, information provided by British Steel, Natural Resources Wales (NRW) (formerly Environment Agency Wales), Newport City Council and aerial photographic interpretation.
- 4.1.2 This has been supplemented from the review of historical maps obtained in 2015 from the Welsh Government. No relevant additional information has been identified from this review.
- **4.1.3** A summary of the Site's history is presented in Table 1 below.

Table 1: Site History

Date	Use	Source of information
1843 - 1893	The Site is shown within fields.	1:10,560 Historical Mapping
1891 - 1912	No significant change.	1:10,560 Historical Mapping
1904 - 1939	The north western half is shown to be occupied in part by woodland. The north eastern corner of the Site is located within the Beeches Farm (buildings are as current layout).	1:10.560 Historical Mapping
1964- 1965	No significant change.	1:10,560 Historical Mapping
1969 - 1971	The Beeches Farm development is shown to have extended northwards and now includes Beeches Farm Caravan Park. All sites are now included within this development area.	1:10,560 Historical Mapping
1985 - 1996	No significant change.	1:10,000 Historical Mapping
1995	The presence of 3 no. cesspits noted during a site walkover undertaken by Ove Arup and Partners. These are located at the north-western and north-eastern corners and mid-way along the north-eastern boundary of the caravan park.	
2006	No significant change.	Aerial Photography
2009 - 2010	No significant change.	Aerial Photography
2013 - 2014	No significant change.	Aerial Photography

Notes. Potential sources of contamination are <u>underlined</u>. Those within the temporary and permanent land take are shown in **bold**.

4.1.4 Historically the Site is located in proximity to areas which may have been bombed during World War II, which is discussed in the Explosive Ordnance Threat Assessment Report (Bactec, 2014). This categorises the Site as low risk with respect to unexploded ordnance.

5 Environmental Setting

5.1 Geology

5.1.1 British Geological Survey (BGS) data indicates that no superficial deposits underlie the Site. The bedrock beneath the Site comprises the Black Rock Limestone Subgroup (Dolostone).

5.2 Hydrology

5.2.1 There are no surface water features within the Site boundary. The nearest watercourse is St Brides Brook located approximately 260 m west of the Site.

5.3 Hydrogeology

- **5.3.1** NRW classifies the bedrock as a Principal Aquifer.
- 5.3.2 The Site does not lie within a groundwater Source Protection Zone (SPZ). However it lies within a groundwater vulnerability zone classified as a principal aquifer.

5.4 Environmental Information

5.4.1 No pollution incidents, abstraction licences, discharge points or landfill sites have been recorded within the Site or within 300 m of the Site.

6 Scope of Investigations

6.1 General

6.1.1 One intrusive ground investigation (2015) has been undertaken at this Site and this is summarised in Table 2. Furthermore, one borehole (SBHN04) was advanced within 10 m of the Site. This has been considered in order to support understanding of ground conditions beneath the Site and inform on the soil, groundwater quality and gas regime as given its location it may be within the zone of influence of one of the cesspits.

6.2 Scope of Works

6.2.1 The various intrusive ground investigations undertaken within the Site area are summarised in Table 2.

Table 2: Site Investigation Summary

Date	Contractor	Site Location	Boreholes	Window Sampler	Trial Pits	Sampling
2008	Norwest Holst	Western Site	SBHN04	-	1	None
2015	Geotechnical Engineering Limited	South- east	BH557	-	-	

6.2.2 The construction details of all boreholes installed on the Site are summarised in Table 3.

Table 3: Summary of Borehole Construction Details

Borehole ID	Diameter (mm)	Total Drilled Depth (m)	Top of Slotted Well Casing / Gravel Pack (m bGL)	Base of Slotted Well Casing / Gravel Pack (m bGL)	Targeted Geology
SBHN04 RC	19	10.7	9.6	10.0	Carboniferous Limestone Group
BH557	50	16.0	2.0	16.0	Carboniferous Limestone Group

6.3 Surface Water Quality Monitoring

6.3.1 Surface water quality monitoring was not undertaken during previous ground investigations of the Site.

6.4 Field Testing

Photo Ionisation Detector (PID) monitoring for Volatile Organic Compounds (VOCs) was not undertaken in either the on site or off site selected boreholes during the previous ground investigations.

6.5 Groundwater Monitoring

A summary of the groundwater sampling, groundwater monitoring and ground gas monitoring rounds at the selected boreholes is shown in Table 4.

Table 4: Summary of Monitoring Rounds

Location Ref.	Number of Rounds (Date of Sampling)	Monitoring Details	Notes
SBHN04 RC (19mm)	1 no . (31 st January 2008)	Groundwater Level	-
BH557	4 no. (29 th April 2015, 7 th May 2015, 13 th May 2015, 20 th May 2015)	Groundwater Level, Ground Gas	-

6.6 Laboratory Chemical Testing

6.6.1 A summary of all laboratory analysis undertaken on soils, groundwater, leachate and surface water from the previous site investigations is provided below in Table 5.

Table 5: Summary of Previous Investigation Sampling

Site Investigation Date	No. of Soil Samples	No. of Leachate Samples	No. of Water Samples	Suites of Testing
2008	0	0	0	-
2015	2	-	-	Inorganics, pH, MTBE, BTEX, TPH, PAH, Phenols, PCBs, VOCs, SVOCs

Soil Analysis

- 6.6.2 The following sections summarise the laboratory analytical results for soil samples collected onsite during the various intrusive investigation phases. The available data set has been tabulated and is presented in Appendix 3 with the supporting laboratory certificates available in the relevant original ground investigation reports.
- **6.6.3** The available information is summarised below in Table 6.

Table 6: Summary of Analytical Soil Data

	Number of Soil Analysis per Analytical Suite - 2015 Data							
Formation Unit	Inorganics	VOCs & SVOCs	PAH	TPH	Phenol	втех		
Natural Soils	2	1	2	2	2	2		

6.7 Gap Analysis of Available Data

- 6.7.1 The investigation data available for the Site is considered to be limited both in relation to Site coverage and in the laboratory analysis.
- 6.7.2 No chemical analysis of groundwater or soil leachate data is available for this Site and therefore limited quantitative risk assessment has been undertaken.

7 Ground Conditions

7.1 Geology

7.1.1 The two geological exploratory borehole logs (SBHN04 and BH557) for the available intrusive locations on and off site are provided in Appendix 1. The observed geological sequence is broadly consistent with that discussed in the 2014 PSSR report and is now supplemented with information from an additional borehole. This is summarised in the following sections. Information from the Supplementary Ground Investigation (Geotechnical Engineering, 2015) has also been used.

Topsoil

7.1.2 Topsoil was encountered in both boreholes at thicknesses ranging between 0.4 - 0.6 m.

Superficial Deposits

- **7.1.3** Unconsolidated superficial deposits were encountered in both locations. These comprised Head Deposits.
- **7.1.4** Head Deposits generally comprised sandy gravelly clay and were found at thicknesses of between 1.2 1.6 m.

Solid Geology

7.1.5 Below the Head Deposits the Carboniferous Limestone was encountered (at depths of 1.8 – 2 m bGL). The Limestone was typically described as medium strong to strong yellowish grey oolitic or shelly limestone.

Geological Sequence Summary

7.1.6 The general geological sequence identified during the previous ground investigations is summarised in Table 7.

Table 7: Summary of Geological Sequence

Unit	Description	Thickness Range (m)	Basal Depth (m bGL)
Topsoil	Topsoil	0.4 - 0.6	0.4 - 0.6
Head Deposits	Sandy gravelly clay with a low cobble content. Gravels and cobbles of angular to sub angular limestone.	1.2 - 1.6	1.8 - 2
Carboniferous Limestone	Moderately strong to very strong light grey limestone.	>8.3 - >14	Unproven

Note: ">" excess of

7.2 Visual and Olfactory Evidence of Contamination

7.2.1 Visual and olfactory evidence of contamination was not encountered during the drilling of the boreholes.

7.2.2 Full details and observations noted during the drilling are presented on the exploratory logs provided in Appendix 1.

7.3 Gas Monitoring

7.3.1 The gas monitoring dataset collected at BH557 during each of the four monitoring rounds is summarised on the field data sheets provided in Appendix 2. The maximum gas concentrations (minimum for oxygen) are presented in Table 8.

Table 8: Summary of Gas Monitoring Data

Location ID	Flow (I/hr)	VOCs (ppm)	CH ₄ (%/vol)	Peak LEL (%)	CO ₂ (%/vol)	O ₂ (%/vol)	CO (ppm)	H ₂ S (ppm)
	Max.	Max.	Max.	Max.	Max.	Min.	Max.	Max.
BH557	0.0	3.3	0.1	1.0	3.3	16.3	1	0

7.4 Groundwater

Groundwater Encountered During Investigation

7.4.1 Groundwater was not encountered during the previous investigations.

Groundwater Level During Monitoring Rounds

7.4.2 Data relating to groundwater levels for the Site are provided in Appendix 2 and summarised in Table 9.

Table 9: Summary of Groundwater Level Data During Investigation

Location	Installation ^{#1}	Depth of Response Zone (m bGL) and Geological Formation	No. Measurements	Min Level (m bGL)	Max Level (m bGL)	Comments
SBHN04 RC	D	9.6 – 10.0 Carboniferous Limestone	1	9.99	9.99	-
BH557	D	2 - 16 Carboniferous Limestone Group	4	14.02	15.70	-

Notes: #1 S denotes a shallow installation and D denotes deep installation.

Groundwater Summary

7.4.3 A deep groundwater body within the bedrock has been identified with a water level around 10 - 15 m bGL.

8 Contamination Assessment

8.1 Introduction

- **8.1.1** The following sections provide details of the assessment of land contamination at the Site.
- 8.1.2 The Conceptual Site Model (CSM) presented within the 2014 PSSR has been reviewed and updated based on data from the Supplementary Ground Investigation (Geotechnical Engineering, 2015) and the revised design of the Scheme. The main alterations to the 2014 PSSR model are summarised below.
 - Addition of a gas data set.
 - Inclusion of a maintenance worker receptor in the area containing cess pits.
 - Update of the source-pathway-receptor linkages taking into account the above and more detailed assessments.

8.2 Preliminary Risk Assessment

Potential Sources

- **8.2.1** The cesspits are understood to include a concrete underground tank with sewage inlet located below ground level.
- 8.2.2 A potential source of contamination will be soils impacted by sewage which may have leaked over the years of the cesspit's usage. The ground investigation indicated no shallow groundwater to be present in the area of the cesspits. The proposed land take is unlikely to encounter deep groundwater.
- **8.2.3** Any impacted soils are likely to contain sewage related contaminants including:
 - metals e.g. arsenic, cadmium, chromium, copper, iron, lead, mercury, nickel and zinc;
 - inorganic ions e.g. sulphates, chlorides, ammonium, phosphates;
 - pathogenic organisms;
 - acids/alkalis; and
 - hazardous gases (methane, carbon dioxide and hydrogen sulphide).

Potential Receptors

8.2.4 Receptors during the construction and the operational stages of the Scheme that have been considered.

Construction

- Construction workers during site development works.
- General public are unlikely to be in the vicinity of construction works.
- Principal aquifer.

Operational

- Maintenance worker.
- Principal aquifer.

Potential Pathways

- **8.2.5** Pathways during the construction and the operational stages of the Scheme that have been considered.
 - Dermal contact, ingestion, inhalation pathways of potentially contaminated soils possible during development and maintenance works.
 - Leaching of contaminants from the sewage into the underlying groundwater aquifer (in the event of leakage).

8.3 Risk Evaluation

- 8.3.1 Source-pathway-receptor linkages were considered in the 2014 PSSR using the historical data available up to 2008. With review of the other data described herein, the following risk evaluation has been reconsidered and includes:
 - The area of permanent land take encroaches slightly upon the western most cesspit.
 - Leakages may have occurred contaminating surrounding soils.
 - No reported olfactory evidence of sewage reported in the borehole records.

8.4 Human Health Risk Assessment

- 8.4.1 The rationale and approach for the human health (Tier 2) screening assessment is detailed in the Land Contamination Assessment Report (Appendix 11.1). Soil chemical analysis results and the findings of the generic tier 2 human health risk assessments are presented in Appendix 3.
- 8.4.2 No exceedance of the applied assessment criteria have been identified within the topsoil or natural ground samples analysed in the laboratory.

8.5 Controlled Waters Screening Assessment

8.5.1 No chemical analysis of leachate or groundwater was undertaken during previous investigation of the Site and therefore no quantitative risk assessment can be undertaken.

8.6 Ground Gas Risk Assessment

- 8.6.1 The only ground gas data available relates to the borehole BH557 which has a response zone within the Carboniferous Limestone (2 16 m bGL). Of the four monitoring rounds available, the below comments may be made.
 - No monitoring was undertaken during low barometric pressure (less than 1000 mb), with the lowest pressure conditions being 1009 mb. As such gas

- emissions during worst case atmospheric conditions may have not been monitored.
- Gas flow was generally unrecorded with the exception of the fourth round with a negative flow -1.2 l/hr.
- Methane has been recorded at nil or up to 0.1 % during all 4 no. rounds, which are below the screening criteria of 1 % and a correlating LEL of 0.0 %.
- Carbon dioxide was identified between 0.4 3.3 %, which are below the screening criteria of 5 %.
- Trace of Volatile Organic Compounds of up to 3.3 ppm have been recorded.
- Hydrogen sulphide was not recorded during any monitoring round.
- Carbon monoxide was recorded in the first three rounds with a maximum concentration of 1 ppm. This is below the screening criteria of 30 ppm.
- Oxygen has been recorded to be at relatively normal levels (ambient) with concentrations between 16.3-20.1 %.
- 8.6.2 On the basis of the above the gas regime at the Site does not appear to have been influenced by previous historical uses and is instead driven by soil gas within natural soils. A gas risk assessment has been undertaken and is set out within the Land Contamination Assessment Report (Appendix 11.1 of the ES).

9 Refined Conceptual Site Model

- 9.1.1 The incorporation of data from the 2015 Supplementary Ground Investigation has enabled the original CSM presented in the 2014 PSSR to be updated. Relevant contaminant (source-pathway-receptor) linkages are considered within the refined CSM. The assessment is based on the Scheme during construction and operational phases.
- 9.1.2 A CSM representing general ground conditions, overall Scheme layout and relevant source-pathway-receptors (each of which has a specific alpha-numerical symbol attached) is presented in Figure 2 and is described below in Table 10.

Table 10: Conceptual Site Model

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment	
On Site Sewage, sewage	Construction						
sediments, soils surrounding the cesspits and sewage impacted groundwater	Workers (B)	Direct dermal (1)	Unlikely	Low	Very low	Construction workers may be exposed to soils impacted by sewage during construction works; however exposure duration will be short term only.	
		Ingestion (3)	Unlikely	Low	Very low	Septic tanks located outside areas of construction. Prior to construction, a specific risk assessment will be required in line with CDM and health and safety legislation. This will enable safe methods of work and an appropriate level of PPE to be put in place. As such all risks will be duly considered and suitably mitigated to protect construction workers. Receptors are within open space with no proposed confined space works. No chemical data is available for the Site. However no obvious olfactory evidence of	
		Inhalation of soil derived dust (2)	Unlikely	Low	Very low	sewage reported in exploratory holes. Anticipated contamination status is not foreseen to represent abnormal constraints to maintenance workers health and safety over	
		Inhalation of soil gases (2)	Unlikely	Low	Very low	and above those typical of a brownfield site. Provision and implementation of a suitable verification sampling inspection strategy during	
	Motorway users (A) and off site General Public (C)	Direct Dermal contact of soil dust (1)	Unlikely	Low	Very low	Dermal and ingestion pathways associated to soil dust only. Short term exposure only. End users to be within open space. Dust suppression measures are recommended	
		Ingestion of soil dust (3)	Unlikely	Low	Very low	during construction works. Chemical analysis of soils unknown.	

Potential Source	Potential Recepto	Possible Pathway	Likelihood	Severity	Risk	Comment
		Inhalation of soil dust (2)	Unlikely	Low	Very low	Provision and implementation of a suitable verification sampling inspection strategy during construction to confirm risks is recommended.
		Inhalation of soil gas or vapours (2)	Unlikely	Low	Very low	construction to commit risks is recommended.
	Groundwater - Aquifer within the Bedrock (Da)	Leaching / migration of contaminants to aquifer (4)	Unlikely	Low	Very low	Groundwater some 10 m below ground level. Potential for migration of contaminants from potentially impacted soils during excavation however it is expected that groundwater will not be encountered during construction works. Provision and implementation of a suitable verification sampling inspection strategy during construction to confirm risks is recommended.
	Operational		1	I	I	
	Maintenance Workers (B)	Direct dermal (1)	Unlikely	Low	Very low	Potentially impacted soils will be vegetated within area of permanent land take and therefore the exposure to contamination will be limited. Exposure duration will be short term only.
		Ingestion (3)	Unlikely	Low	Very low	Site specific risk assessment will be required in line with health and safety guidance. This will enable safe methodology and an appropriate level of PPE to be put in place. As such all risks will be duly considered and suitable mitigated.
		Inhalation of soil derived dust (2)	Unlikely	Low	Very low	Provision and implementation of a suitable verification sampling inspection strategy during construction to confirm risks is recommended
	Future motorway users (A) and off site users (C)	Dermal contact with dust (1)	Unlikely	Low	Very low	Potentially impacted soils will be vegetated within area of permanent land take and therefore the exposure to contamination will be

Welsh Government

10 Conclusions and Recommendations

10.1 Conclusions

- 10.1.1 The Scheme proposals include the widening of the existing M4 highway which encompasses the southern end of the Site. A borrow pit is also proposed south west of the Site.
- **10.1.2** Ground investigations have been undertaken adjacent to and at the Site to assess risks from land contamination associated with the construction and operation of the Scheme including human health and controlled waters risks.
- 10.1.3 The status of the underground tanks is not clear but assuming they are still present and operational it is considered there is a low potential for soils impacted by sewage related contamination to be encountered at the Site. Although, no analytical data is available in the area of the cess pits identified during the 1995 walkover, risks to human health and controlled waters have been qualitatively rather than quantitatively assessed.
- 10.1.4 The potential for contamination at the site is likely to present only a low risk to the Scheme. Any areas of significant sewage related contamination are likely to be localised, if indeed any is present at all. The cess pits will not be affected during the construction of the Scheme as they are outside the land take.
- 10.1.5 Due to the proximity of the proposed works to the existing cesspit tanks, there is a very low risk that construction workers may be directly exposed to soils impacted by sewage related contamination. Use of standard health and safety measures is considered sufficient for construction workers in this part of the Scheme.
- 10.1.6 It is anticipated that materials encountered within the Site are unlikely to be contaminated and are likely to pose a very low risk to human health and controlled waters both during construction and operation.
- **10.1.7** Should contaminated soils be encountered; these will be dealt with through adoption of a discovery strategy to be detailed within the remediation strategy.
- **10.1.8** It is expected that groundwater will not be encountered during the construction works.
- **10.1.9** Materials are likely to be suitable for reuse subject to the provision and compliance of reuse criteria under a Material Management Plan.
- 10.1.10 Post construction, the embankment itself and topsoil and subsoil cover along the motorway corridor will break potential human health pathways to end users and maintenance workers. However, topsoil materials placed at the surface will need to be checked for contamination.

10.2 Recommendations

10.2.1 Other than dealing with the unlikely event of encountering unexpected contamination at the Site, remediation is not expected to be required. The site wide remediation strategy being developed for the Scheme will set out the following procedures during construction activities to be undertaken at the Site:

- Dealing with unexpected contamination.
- Verification of imported topsoils for suitability of use.
- 10.2.2 The remediation strategy should be supported by a Scheme wide Material Management Plan prepared in accordance with CL:AIRE Code of Practice (CL:AIRE, 2011).

11 References

Bactec (2014) Explosive Ordnance Threat Assessment in respect of M4 Corridor around Newport for Hyder Consulting (UK) Limited, 5750TA

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Environment Agency (2002) Piling into contaminated sites. National Groundwater and Contaminated Land Centre, February 2002

Geotechnical Engineering Limited (2015) M4 Corridor Around Newport, Factual Report on Ground Investigation, 30238Highways Agency (2008) Design Manual for Roads and Bridges. Vol. 4. Geotechnics and Drainage. Section 1. Earthworks; Part 2. HD22/08. Managing Geotechnical Risk

Ove Arup & Partners (2014) M4 Corridor Around Newport, Preliminary Sources Study Report, 14/9197

Titan Environmental Surveys Ltd (2008) New M4 Magor to Castleton Baseline Surface Water Quality Final Report for Arup, Report Number HS0442/F1/2

12 Glossary

BF Blast Furnace

BGS British Geological Survey

BOD Biochemical Oxygen Demand

BOS Basic Oxygen Slag

BTEX Benzene, Toluene, Ethylbenzene and Xylene

CAT Cable Avoidance Tool

CDM Construction Design Management

CH₄ Methane

CLEA Contaminated Land Exposure Assessment

CO₂ Carbon Dioxide

CO Carbon Monoxide

COD Chemical Oxygen Demand

CSM Conceptual Site Model

DMRB Design Manual for Roads and Bridges

DO Dissolved Oxygen

DQRA Detailed Quantitative Risk Assessment

DWS Drinking Water Standard

EC Electrical Conductivity

EIA Environmental Impact Assessment

ES Environmental Statement

ESG Environmental Scientifics Group

EQS Environmental Quality Standard

FTIR Fourier Transform Infrared (spectroscopy)

GAC Generic Assessment Criteria

GDR Geotechnical Design Report

GIR Ground Investigation Report

GRO Gasoline Range Organics

LEL Lower Explosive Limit

LOD Limit of Detection

mAOD Metres Above Ordnance Datum

mb Millibars

mbGL Metres below Ground Level

MTBE Methyl Tert-butyl Ether

NRW Natural Resources Wales

ORP Oxidation Reduction Potential

O₂ Oxygen

OS Ordnance Survey

PAH Polycyclic Aromatic Hydrocarbon

PCB Polychlorinated Biphenyl

PCSM Preliminary Conceptual Site Model

PID Photo Ionisation Detector

PPE Personnel Protection Equipment

SGVs Soil Guideline Values

SSAC Site Specific Assessment Criteria

SSSI Site of Special Scientific Interest

SVOCs Semi-Volatile Organic Compounds

TOC Total Organic Carbon

TPH Total Petroleum Hydrocarbon

TPH CWG Total Petroleum Hydrocarbon Criteria Working Group

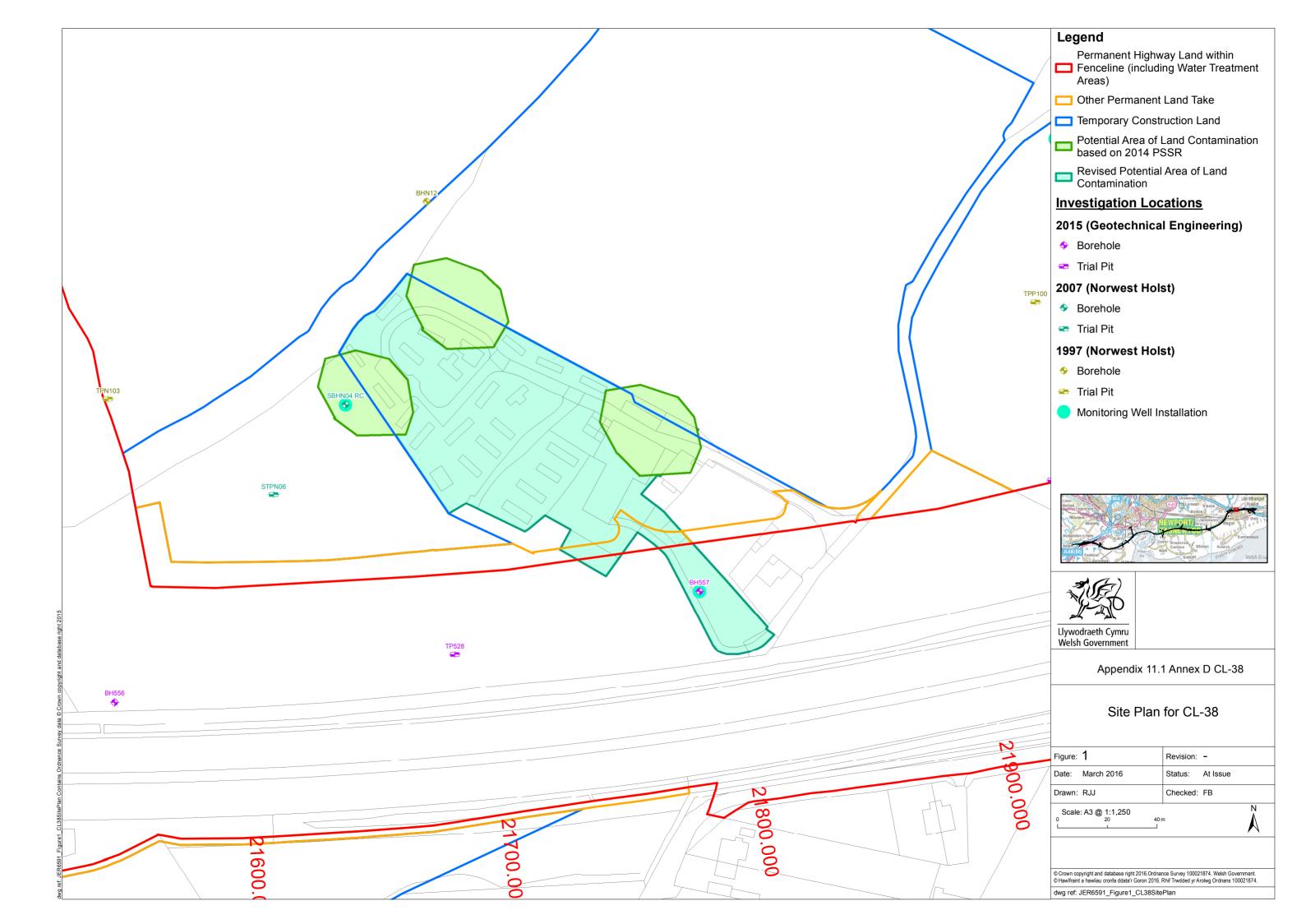
UKAS United Kingdom Accreditation Service

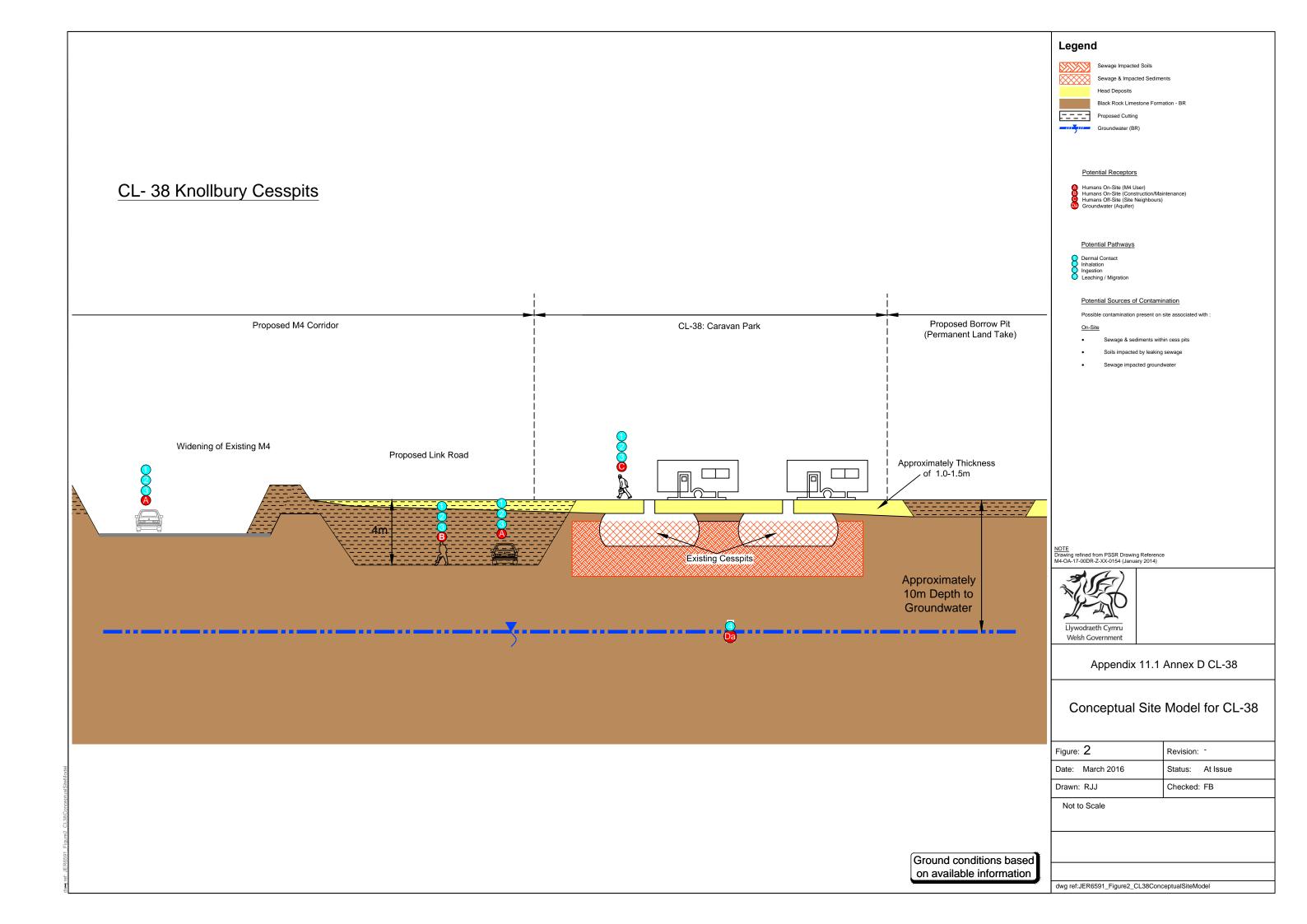
VOCs Volatile Organic Compounds

WFD Water Framework Directive

UXO Unexploded Ordnance Survey

Figures





Appendices

Appendix 1

Exploratory Records



Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Hole ID.
SBHN04 RC
Header

Contract No. F15056 Method Rotary Coring Coordinates 342748.57 E

Project New M4 - Second Preliminary GroundDrilling Rig Site Master 187933.62 N

Investigation Driller BB Ground Level 32.88m AOD

DH Client Transport Wales, Welsh Assembly Logged by Orientation Vertical Government Core barrel PWF Date Started 11/12/2007 Consultant Ove Arup & Partners Ltd Core bit TC Date Completed 13/12/2007

			PROGRESS				DR	ILLING DET	AILS	
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To depth	Flush type	Flush return	Core diameter
11/12/2007	1730	3.00	1.80	2.80	End of Shift	0.00	1.80	Air/mist	100%	0.00*
12/12/2007	0730	3.00	1.80	2.80	Start of Shift	1.80	10.10	Air/mist	100%	92.0
12/12/2007	1730	6.75	1.80	6.60	End of Shift					
13/12/2007	0730	6.75	1.80	6.60	Start of Shift					
13/12/2007	1730	10.10	1.80	8.70	End of Hole					

	CAS	SING					1	WATER STR						
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow			
121	10.10	121	1.80					15 1.00			12 2201 11011			

	GENERAL NOTES
4 Datami On anh ala	deilling frame OL to 4 00m

- 1.Rotary Openhole drilling from GL to 1.80m. 2.Rotary Coring from 1.80m to 10.10m.
- 3.19mm piezometer installed, tip at 10.00m, with response zone from 9.60m to 10.00m.
- 4.0.00* indicates openhole drilling.

		SPT DETAILS		
Depth	Туре	Incremental blow count/penetration	Casing	Water Depth
1.00	S	100/300mm (17,8,17,17,30,36)	0.00	DRY
2.00	S	100/10mm (25,100)	0.00	1.90
3.00	S	100/17mm (25,100)	1.80	2.80
			ĺ	

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes.

Form	ARIAL ROTARY HEADER
Version	3.06
Revised	17/12/2007

NORWEST O

Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Hole ID.

SBHN04 RC

Sheet 1 of 2

F15056 Coordinates Contract No. Method **Rotary Coring** 342748.57 E New M4 - Second Preliminary GrourDirilling Rig Project Site Master 187933.62 N Investigation ВВ **Ground Level** 32.88m AOD DH Logged by Orientation Vertical Client Transport Wales, Welsh Assembly PWF Core barrel Date Started 11/12/2007 Government Ove Arup & Partners Ltd Consultant Core bit TC Date Completed 13/12/2007

Description of Strata	Legend	Drilled Length		Coring and Sampling	TCR	SCR	RQD	ட	SPT N & depth	Install ation
Turf over brown TOPSOIL.									-	
Light brown fine SANDS with frequent sandstone gravelly bands.		0.60	- - 32.28 - - - -						1.00 1.42 — S100/300mm	
Brown silty CLAY with frequent limestone cobbles.		1.30	- - 31.58 - -							
Strong to very strong light grey LIMESTONE with medium		1.80	31.08	1.80 2.0	0 40	40	0		2.00 2.04	
to widely locally closely spaced stylolites 0 - 20 deg. Discontinuities 1) 0 -10 deg closely to widely spaced				2.00 2.4	0 83	83	30		S100/10mm	
undulating rough locally infilled with greenish grey clay locally stained orangish brown. (Carboniferous Limestone Group)from 2.00m to 2.33m 1 No discontinuity 80-85 deg				2.40 3.0	0 100	100	57	50 100 180		
undulating rough to smooth stained brownfrom 2.20m to 2.28m 2 No 15mm diameter partially calcite infilled voids			-						3.00 3.05 – S100/17mm	
from 2.33m to 2.40m assumed zone of core lossfrom 2.40m to 2.78m 1 No discontinuity 80-85 deg undulating to planar rough to smooth stained brownfrom 2.87m to 2.88m 2 No incipient discontinuites 30 deg undulating calcite infilled				3.00 4.5	0 98	98	90			
from 4.47m to 4.50m assumed zone of core loss			-					110 180 310	- - - - -	
at 5.04m 1 No 20mm diameter void partially infilled with calcite				4.50 5.3	7 100	100	100			
from 5.12m to 5.14m many fine to medium gravel sized voids				5.37 6.79	5 100	100	100			
from 6.84m to 7.08m 2 No discontinuites 70-80 deg undulating rough to smooth stained brown				6.75 8.00	0 97	94	87	70 320 620	:	
from 8.30m to 8.53m 1 No discontinuity 70-75 deg planar rough to smooth stained brownfrom 8.53m to 8.53m 1 No thick lamination of green			-	8.00 8.90	0 100	100	88			
grey clay			- - - - -	8.90 9.8	0 100	100	100			
			-	9.80 10.10	0 100	100	100			

NOTES: All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL ROTARY LOG
Version	3.09
Revised	17/12/2007

NORWEST O

Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Hole ID.
SBHN04 RC
Sheet 2 of 2

F15056 Coordinates Contract No. Method **Rotary Coring** 342748.57 E New M4 - Second Preliminary GrourDirilling Rig Project Site Master 187933.62 N Investigation ВВ **Ground Level** 32.88m AOD DH Orientation Logged by Vertical Client Transport Wales, Welsh Assembly PWF Core barrel Date Started 11/12/2007 Government Ove Arup & Partners Ltd Consultant Core bit TC Date Completed 13/12/2007

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	RQD	些	SPT N & depth	Install- ation
Strong to very strong light grey LIMESTONE with medium to widely locally closely spaced stylolites 0 - 20 deg. Discontinuities 1) 0 -10 deg closely to widely spaced undulating rough locally infilled with greenish grey clay locally stained orangish brown. (Carboniferous Limestone Group) Rotary drilling complete at 10.10 m.		10.10								
			-							=

NOTES: All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL ROTARY LOG
Version	3.09
Revised	17/12/2007

BOREHOLE LOG

End Date



CLIENT WELSH GOVERNMENT

D1 1001

1 of 2

SITE M4 CORRIDOR AROUND NEWPORT

Scale 1 : 50

Sheet

Start Date 13 March 2015

17 March 2015

Easting 342890.9

187858.6

Ground level

Northing

35.40mOD

Depth 16.00 m

progress date/time water depth	sample no & type	depth (i	′	casing depth (m)	type &	samp. /core range	lf	instru -ment	description	depth (m)	reduced level (m)	legend
13/03/15 0830hrs	1B 2D* 3B	0.00 - 0.2 0.00 - 0.2 0.20 - 0.4	20		Vo 9.2			/ /	Firm brown slightly sandy silty CLAY with frequent roots (up to 2mm diam). (TOP)	0.40	35.00	X
	4D* 5B 6D*	0.20 - 0.4 0.40 - 1.0 0.40 - 1.0	10		Vo 8.4 Vo 10.0				Very stiff brown slightly sandy slightly gravelly silty CLAY. Gravel is subrounded and rounded fine to coarse limestone. (HDD)	- - - -		
	7X	1.00 - 1.4 1.00 - 1.9	-	- Nil	C 36					 - -		
13/03/15	8D*	1.40 - 1.5	ļ							- - -		
1630hrs 0.25m 16/03/15	X 9C	1.90 - 2.0 1.90 - 2.0 2.00 - 2.3	00 -	Nil - 2.00	C*125	100	NI		1.90 - 2.00m: No recovery.	2.00	33.40	
0800hrs Dry	10C	2.30 - 3.0	. [85 0 0			Medium strong yellowish grey oolitic LIMESTONE recovered non intact as sandy subangular fine to coarse limestone gravel. Low subangular limestone cobble content. (CL)	- - - - -		
	11C	3.00 - 3.0 3.00 - 4.5		_ 2.00	C**	100 66 36	50 100 150		Medium strong yellowish grey slightly sandy oolitic	3.00_	32.40	
			- - - - - - - - - - - - - - - - - - -	-		36	150		LIMESTONE with localised randomly orientated calcite veins (up to 2mm thick). Fractures are subhorizontal to 20° and 70° to subvertical closely spaced planar smooth stained mottled orangish brown with black specks or a clay veneer. (CL)	- - - - - -		
	12C	4.50 - 6.0	00	2.00		100 96 82				4.80 ⁻	30.60	
			- - - - - - - - - - - - - - - - - - -	_			40 300 800		Strong grey shelly LIMESTONE with localised randomly orientated calcite veins (up to 2mm). Fractures are subhorizontal to 20° and 70° to subvertical medium and widely spaced rarely very closely spaced planar smooth stained orangish brown and speckled black. (CL) 5.00m: Horizontal band (50mm) of calcareous mudstone. 5.10 - 5.40m: Horizontal planar smooth fractures with grey clay veneer and frequent linear subhorizontal voids (up to	- - - - - - - - -		
	13C	6.00 - 7.5	50 -	2.00		100 90 83			20mm). Shell fragments dissolved. 5.70m: Weak. 5.90m: Horizontal planar smooth fracture with grey clay veneer. 6.15m: Horizontal band (10mm) of grey calcareous mudstone.			
	14C	7.50 - 9.0	00	2.00		100 93 83			7.50 - 8.50m: Locally interlaminated yellowish brown.	- - - - - - -		
				=					Continued Next Page	{8.00}		

EQUIPMENT: Geotechnical Pioneer rig.

 $METHOD: Hand \ dug \ inspection \ pit \ 0.00-1.00m. \ Dynamic \ sampled \ (113mm) \ 1.00-2.00m. \ Waterflush \ rotary \ core \ drilled \ (116mm) \ 2.00-16.00m.$

CASING: 140mm diam to 2.00m.

BACKFILL: On completion, a slotted standpipe (50mm) was installed to 16.00m, granular response zone 16.00-2.00m, bentonite seal 2.00-0.20m, concrete and stopcock cover 0.20-0.00m.

REMARKS: Driller notes reduced flush returns 2.00-4.50m (80% returned), 4.50-10.50m (10% returned) and loss of flush 10.50-16.00m.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered prior to use of water flush.



CONTRACT

CHECKED

Geotechnical Engineering Ltd, Tel. 01452 527743 30238 YODA.GPJ TRIALJH.GPJ GEOTECH.GLB 16/07/2015 16:12:48 PR

EC

30238

EC

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

2 of 2

SITE M4 CORRIDOR AROUND NEWPORT Sheet Scale 1:50

Start Date 13 March 2015 342890.9 Easting

progress date/time water depth	no & type	depth	to	casing depth (m)	test type & value	samp. /core range	lf	instru -ment	description		depth (m)	reduced level (m)	leger
16/03/15	15C	9.00 -		2.00		97 86 54			8.80 - 9.00m: Brownish yellow. 9.30 - 9.85m: Subvertical planar smooth fracture obrown clay veneer. 9.80 - 9.90m: Frequent linear voids (up to 20mm) fragments dissolved.				
1700hrs 6.60m 17/03/15 0840hrs 10.40m	16C	10.50 -	12.00	2.00		100 ₉₅ 88	200 200 300		9.85m: Brownish yellow horizontal band (50mm).10.00m: Medium strong.10.70m: White subangular coarse gravel sized ca crystal.	Icite	- - - - - - -		
	17C	12.00 -	13.50	2.00		100 100 100					- - - - - - - - - - - - - - - - - - -		
	18C	13.50 -	15.00	2.00		100 100 100			13.20 - 14.00m: Frequent fine gravel sized voids a laminae (up to 30mm) of oolitic limestone. Shell fredissolved out.	agments	- - - - - - - - - - - - - - - - - - -		
17/03/15 1610hrs 11.90m	19C	15.00 -	16.00	2.00		100 100 100			of shell fragments and oolitic limestone.	Joinn)	16.00	19.40	
									Borehole completed at 16.00m.				
water strike (rose to		me to ris			arks	ar not appointed or prior to use of water AGS	CONTR	{18.00}	CHE	

Appendix 2

Gas and Groundwater Monitoring Dataset

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remark	s
BH557	29/04/15 12:00:00	1010	-0.62								0.0	11		6 litres purged, base 16.00m.	e depth
BH557	29/04/15 12:01:00										0.0			10.00111.	
BH557	29/04/15 12:02:00										0.0				
BH557	29/04/15 12:03:00										0.0				
BH557	29/04/15 12:04:00										0.0				
BH557	29/04/15 12:05:00			1.2	0.0	20.0	0.0	0	1	3.3					
BH557	29/04/15 12:06:00			1.2	0.0	19.9	0.0	0	0	3.0					
BH557	29/04/15 12:07:00			1.3	0.0	19.9	0.0	0	0	2.6					
BH557	29/04/15 12:08:00			1.3	0.0	19.8	0.0	0	0	2.6					
BH557	29/04/15 12:09:00			1.4	0.0	19.8	0.0	0	1	2.9					
BH557	29/04/15 12:10:00			1.6	0.0	19.7	0.0	0	0	2.9					
BH557	29/04/15 12:11:00			1.7	0.0	19.6	0.0	0	0	2.8					
BH557	29/04/15 12:12:00			1.8	0.1	19.5	1.0	0	0	2.7					
BH557	29/04/15 12:13:00			2.1	0.0	19.4	0.0	0	0	2.3					
BH557	29/04/15 12:14:00			2.2	0.0	19.3	0.0	0	0	2.1			14.02		
BH557	07/05/15 10:15:00	1009	0								0.0	14		Purged dry after 3 li 30 mins. No recharg obtained. Base dept	tres. Waited ge. No sample th 16.00m.
BH557	07/05/15 10:16:00										0.0				
remarks # denotes r VOC - Phot	esult exceeding capacity of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the	of gas monitor	ing equipment	anours with 10) 6eV Jamp ca	librated agains	et isobutylens							CONTRACT 30238	CHECKE

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

M4 CORRIDOR AROUND NEWPORT SITE:



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH557	07/05/15 10:17:00										0.0			
BH557	07/05/15 10:18:00										0.0			
BH557	07/05/15 10:19:00										0.0			
BH557	07/05/15 10:20:00			0.4	0.0	20.1	0.0	0	0	0.8				
BH557	07/05/15 10:21:00			0.4	0.0	20.1	0.0	0	0	0.8				
BH557	07/05/15 10:22:00			0.5	0.0	20.1	0.0	0	0	0.8				
BH557	07/05/15 10:23:00			0.6	0.0	20.0	0.0	0	0	0.8				
BH557	07/05/15 10:24:00			0.7	0.0	19.8	0.0	0	0	0.9				
BH557	07/05/15 10:25:00			0.9	0.0	19.6	0.0	0	1	0.9				
BH557	07/05/15 10:26:00			1.2	0.0	19.4	0.0	0	0	1.0				
BH557	07/05/15 10:27:00			1.6	0.0	19.1	0.0	0	0	0.9				
BH557	07/05/15 10:28:00			2.0	0.0	18.8	0.0	0	0	0.9				
BH557	07/05/15 10:29:00			2.1	0.0	18.7	0.0	0	0	0.9			14.26	
BH557	13/05/15 09:00:00	1016	0								0.0	12	14.84	Not enough water in installation to obtain sample.
BH557	13/05/15 09:01:00										0.0			obtain sample.
BH557	13/05/15 09:02:00										0.0			
BH557	13/05/15 09:03:00										0.0			
BH557	13/05/15 09:04:00										0.0			

denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

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GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

SITE: M4 CORRIDOR AROUND NEWPORT



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks	
BH557	13/05/15 09:05:00			2.0	0.0	17.7	0.0	0	1	2.0					
BH557	13/05/15 09:06:00			2.0	0.0	17.7	0.0	0	0	1.9					
BH557	13/05/15 09:07:00			2.1	0.0	17.6	0.0	0	0	1.8					
BH557	13/05/15 09:08:00			2.2	0.0	17.5	0.0	0	0	1.7					
BH557	13/05/15 09:09:00			2.3	0.0	17.4	0.0	0	0	1.6					
BH557	13/05/15 09:10:00			2.4	0.0	17.3	0.0	0	0	1.5					
BH557	13/05/15 09:11:00			2.7	0.0	17.2	0.0	0	0	1.4					
BH557	13/05/15 09:12:00			2.8	0.0	17.1	0.0	0	0	1.3					
BH557	13/05/15 09:13:00			3.0	0.0	17.1	0.0	0	0	1.1					
BH557	13/05/15 09:14:00			3.1	0.0	17.0	0.0	0	0	1.0					
BH557	20/05/15 11:24:00	1026	-1								-0.4	14			
BH557	20/05/15 11:25:00										-0.4				
BH557	20/05/15 11:26:00										-1.2				
BH557	20/05/15 11:27:00										-0.4				
BH557	20/05/15 11:28:00										-0.4				
BH557	20/05/15 11:29:00			3.3	0.0	16.6	0.0	0	0	1.3					
BH557	20/05/15 11:30:00			3.3	0.0	16.6	0.0	0	0	1.2					
BH557	20/05/15 11:31:00			3.3	0.0	16.4	0.0	0	0	1.1					
remarks														CONTRACT CHEC	

denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

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GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

M4 CORRIDOR AROUND NEWPORT SITE:



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remar	ks
BH557	20/05/15 11:32:00			3.3	0.0	16.4	0.0	0	0	1.0					
BH557	20/05/15 11:33:00			3.3	0.0	16.4	0.0	0	0	1.0					
BH557	20/05/15 11:34:00			3.3	0.0	16.4	0.0	0	0	1.0					
BH557	20/05/15 11:35:00			3.3	0.0	16.4	0.0	0	0	0.8					
BH557	20/05/15 11:36:00			3.3	0.0	16.4	0.0	0	0	0.8					
BH557	20/05/15 11:37:00			3.3	0.0	16.3	0.0	0	0	0.7					
BH557	20/05/15 11:38:00			3.3	0.0	16.3	0.0	0	0	0.5					
BH557	20/05/15 11:39:00												15.70		
ı															
ı															
remarks													Т	CONTRACT	TOUECKED

denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

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CHECKED EC

Project Name New M4 Preliminary Ground Investigation
Project No. F15056

Engineer Ove Arup & Partners Ltd

Client Transport Wales, Welsh Assembly Government

Groundwater Readings For Installations

Fig no.

01

NOTES: SPIE=Piezometer, SP=Standpipe

For multiple installations, use different Installation IDs.

For piezometers installation depth = tip depth. For standpipes = base of pipe

COMMENTS SBHM01 RC installation extends 0.50m above ground level. - symbol indicates water level is above GL

All groundwater levels are recorded from ground level

Exploratory Hole ID		llation Deta	ails				Records	ed Water Lev	<i>i</i> el			
Exploratory Hole IU	Typo		1	2.1.		1 a 15				2.1		T a
ĺ	Type	Depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
SBHC01 RC	SPIE	m 8.05	 	dd/mm/yyyy 30/01/2008	hh:mm 09:50	m 2.45	dd/mm/yyyy 25/02/2008	hh:mm 14:34	m 2.48	dd/mm/yyyy 07/03/2008	hh:mm 14:25	m 2.60
SBHD03 CP	SPIE	10.00	-	30/01/2008	11:01	0.47	25/02/2008	14:52	0.43	07/03/2008	14:05	0.56
SBHD05 RC	SPIE	12.00		31/01/2008	09:00	1.02	25/02/2008	15:35	1.05	07/03/2008	13:50	1.77
SBHD05 RC	SP	15.00		30/01/2008	13:00	1.13	21/02/2008	10:30	1.39	07/03/2008	13:30	1.77
SBHD08 RC	SPIE	29.50	-	30/01/2008	13:50	1.13	25/02/2008	15:58	2.02	07/03/2008	13:35	1.40
SBHE02RD	SPIE	25.00	-	31/01/2008	09:25	2.18	25/02/2008	16:20	2.02	07/03/2008	13:33	2.48
SBHE04 RC	SPIE	17.20	-	31/01/2008	09:23	2.10	25/02/2008	16:11	2.51	07/03/2008	13:10	2.48
SBHF01 RC	SPIE	17.20	-	31/01/2008	09:15	5.69	25/02/2008	16:32	5.72	07/03/2008	12:50	5.43
			 									
SBHF02A CP	SPIE	17.00	-	01/02/2008	14:40	7.61	25/02/2008	17:13	7.57	07/03/2008	12:30	9.00
SBHF03 RC	SPIE	18.00	-	31/01/2008	10:35	6.97	26/02/2008	08:55	6.77	07/03/2008	12:15	7.22
SBHH01 RC	SPIE	25.00	-	31/01/2008	11:15	3.45	26/02/2008	09:39	3.42	07/03/2008	11:28	3.65
SBHH02 RC	SPIE	14.90	-	31/01/2008	11:10	3.42	26/02/2008	09:20	3.88	07/03/2008	11:35	3.64
SBHH05 RC	SPIE	21.50	-	31/01/2008	11:30	2.22	26/02/2008	10:01	2.13	07/03/2008	11:05	3.10
SBHH06 CP	SP	12.30	-	30/01/2008	15:30	3.75	21/02/2008	08:00	3.76	07/03/2008	11:10	3.87
SBHH07A RC	SPIE	24.85		30/01/2008	14:50	1.70	26/02/2008	10:40	1.34	07/03/2008	11:00	1.07
SBHJ01 CP	SP	7.50	-	01/02/2008	12:20	1.34	21/02/2008	11:45	5.98	06/03/2008	12:28	1.82
SBHJ03 CP	SP	5.20		01/02/2008	08:00	0.54	27/02/2008	16:15	0.70	07/03/2008	10:45	0.68
SBHJ04	SP	13.10	<u> </u>	01/02/2008	11:55	6.61	22/02/2008	13::55	6.67	06/03/2008	11:46	6.75
SBHJ05	SP	11.50	<u> </u>	01/02/2008	11:10	8.91	22/02/2008	09:00	9.07	06/03/2008	11:23	9.16
SBHJ06 CP	SP	4.10		01/02/2008	11:45	1.31	21/02/2008	15:30	1.32	06/03/2008	10:50	1.33
SBHJ07 CP	SP	10.40		01/02/2008	11:43	1.35	21/02/2008	14:40	1.40	06/03/2008	12:05	1.56
SBHJ08A CP	SP	7.40		01/02/2008	11:35	3.49	21/02/2008	13:05	2.31	06/03/2008	10:57	2.67
SBHJ09 CP	SP	2.20	<u> </u>	01/02/2008	11:30	0.65	21/02/2008	12:25	0.85	06/03/2008	11:00	0.90
SBHJ10 CP	SP	10.00		01/02/2008	10:40	2.30	21/02/2008	13:45	2.24	06/03/2008	10:40	2.16
SBHK01 CP	SP	6.80		01/02/2008	10:55	0.70	25/02/2008	10:30	1.00	06/03/2008	14:24	1.06
SBHK02 CP	SP	11.20		01/02/2008	10:50	1.34	25/02/2008	11:20	1.33	06/03/2008	14:18	1.47
SBHK03 CP	SP	5.90		01/02/2008	10:45	0.87	25/02/2008	12:00	0.89	06/03/2008	14:15	1.00
SBHK04 CP	SP	12.20		01/02/2008	10:25	1.45	25/02/2008	12:30	1.60	06/03/2008	12:30	1.60
SBHL02 RC	SPIE	15.20		01/02/2008	10:35	2.27	25/02/2008	12:49	2.31	06/03/2008	14:00	2.42
SBHL03 RC	SPIE	15.00		31/01/2008	16:20	0.61	26/02/2008	11:15	0.51	07/03/2008	10:25	0.66
SBHM01 RC	SPIE	21.00	「 <u></u>	01/01/1900	08:20	-0.26	26/02/2008	11:30	-0.26	07/03/2008	10:17	0.05
SBHM02 RC	SPIE	20.00		01/02/2008	08:25	0.19	26/02/2008	11:41	0.49	07/03/2008	10:14	0.68
SBHN01A RC	SPIE	14.90		01/02/2008	15:20	8.49	27/02/2008	17:15	12.23	07/03/2008	14:45	13.18
SBHN02 RC	SPIE	20.40		31/01/2008	15:55	3.67	26/02/2008	11:57	4.19	07/03/2008	10:05	4.84
SBHN03 RC	SPIE	15.00		31/01/2008	15:45	1.07	26/02/2008	12:03	1.73	07/03/2008	09:55	2.34
SBHN04 RC	SPIE	10.00		31/01/2008	15:30	9.99	26/02/2008	14:42	DRY	07/03/2008	09:45	DRY

Approved by: Recorded by: S Davis Checked by: I Swain I Swain 30/01/08-07/03/08 Date: 16/04/2008 17/04/2008 Date: Date: SI GWR 2.03 07/01/2008 Form No. Revision No. Issue Date



Project Name New M4 Preliminary Ground Investigation
Project No. F15056

Engineer Ove Arup & Partners Ltd

Client Transport Wales, Welsh Assembly
Government

Groundwater Readings
For Installations

Fig no.

02

NOTES: SPIE=Piezometer, SP=Standpipe

For multiple installations, use different Installation IDs.

For piezometers installation depth = tip depth. For standpipes = base of pipe

COMMENTS

Unable to locate LGBH05 and RBBH08. LGBH06 was blocked All groundwater levels are recorded from ground level

Exploratory Hole ID SBHP01 RC SBHP02 RC SBHP03 RC SBHQ01 RC SBHQ02 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23 SWSJ34	Type SPIE SPIE SPIE SPIE SPIE SPIE SPIE SPIE SPIE SP SP	Depth m 8.00 9.80 5.00 11.80 6.00 11.00 8.00 7.35	ID	Date dd/mm/yyyy 31/01/2008 31/01/2008 31/01/2008 31/01/2008 31/01/2008	Time hh:mm 14:50 13:55 13:40 14:20	Reading m DRY 7.20 4.09	Date dd/mm/yyyy 26/02/2008 26/02/2008	Time hh:mm 14:12 13:59	Reading m DRY 8.09	Date dd/mm/yyyy 07/03/2008	Time hh:mm 09:35	Reading m DRY
SBHP01 RC SBHP02 RC SBHP03 RC SBHQ01 RC SBHQ02 RC SBHQ03 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SPIE SPIE SPIE SPIE SPIE SPIE	8.00 9.80 5.00 11.80 6.00 11.00 8.00 7.35	U U	31/01/2008 31/01/2008 31/01/2008 31/01/2008 31/01/2008	14:50 13:55 13:40	7.20 4.09	26/02/2008 26/02/2008	14:12	DRY	07/03/2008	09:35	1
SBHP02 RC SBHP03 RC SBHQ01 RC SBHQ02 RC SBHQ03 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SPIE SPIE SPIE SPIE SPIE SPIE	9.80 5.00 11.80 6.00 11.00 8.00 7.35		31/01/2008 31/01/2008 31/01/2008 31/01/2008	13:55 13:40	7.20 4.09	26/02/2008					DRY
SBHP03 RC SBHQ01 RC SBHQ02 RC SBHQ03 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SPIE SPIE SPIE SPIE SPIE SPIE	5.00 11.80 6.00 11.00 8.00 7.35		31/01/2008 31/01/2008 31/01/2008	13:40	4.09		13:59	8.09	07/02/2000	00.40	
SBHQ01 RC SBHQ02 RC SBHQ03 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SPIE SPIE SPIE SPIE SP SP	11.80 6.00 11.00 8.00 7.35		31/01/2008 31/01/2008			26 /02 /2000			07/03/2008	09:10	8.25
SBHQ02 RC SBHQ03 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SPIE SPIE SPIE SP	6.00 11.00 8.00 7.35		31/01/2008	14:20		26/02/2008	13:48	4.76	07/03/2008	09:05	4.78
SBHQ03 RC SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SPIE SP SP	11.00 8.00 7.35				5.76	26/02/2008	12:46	6.74	07/03/2008	09:30	7.20
SBHQ04 RC SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SPIE SP SP	8.00 7.35		21 /01 /2000	14:15	4.98	26/02/2008	12:59	5.16	07/03/2008	09:25	5.98
SBHQ06 RC SWSJ08 SWSJ13 SWSJ21 SWSJ23	SPIE SP SP	7.35		31/01/2008	13:20	6.04	26/02/2008	13:29	7.22	07/03/2008	08:38	7.59
SWSJ08 SWSJ13 SWSJ21 SWSJ23	SP SP			31/01/2008	13:05	4.35	26/02/2008	13:36	6.18	07/03/2008	08:55	6.94
SWSJ13 SWSJ21 SWSJ23	SP			31/01/2008	13:00	3.89	26/02/2008	13:16	4.40	07/03/2008	08:25	4.63
SWSJ21 SWSJ23		3.30		01/02/2008	12:30	0.42	21/02/2008	11:45	0.37	06/03/2008	12:35	0.41
SWSJ23	SP	2.50		01/02/2008	12:00	DRY	22/02/2008	13:45	DRY	06/03/2008	11:50	DRY
		6.00		01/02/2008	11:20	3.87	22/02/2008	09:30	5.72	06/03/2008	11:27	6.59
SWSJ34	SP	7.80		01/02/2008	11:22	5.92	22/02/2008	09:55	6.62	06/03/2008	11:30	6.97
	SP	6.00		01/02/2008	11:05	2.52	22/02/2008	10:55	3.33	06/03/2008	11:10	3.08
SWSJ37	SP	5.60		01/02/2008	11:25	0.46	22/02/2008	11:30	0.55	06/03/2008	11:15	0.61
LGBH02	SP	8.88					22/02/2008	14:35	7.50	06/03/2008	11:40	7.52
LGBH03	SP	8.90					22/02/2008	14:21	7.20	06/03/2008	11:44	7.28
LGBH04	SP	10.50					22/02/2008	10:30	8.87	06/03/2008	11:20	9.00
LGBH09	SP	7.00					22/02/2008	12:40	1.13	06/03/2008	10:48	1.56
LGBH10	SP	14.60					27/02/2008	14:30	8.15	06/03/2008	11:12	8.21
LGBH11	SP	11.20					27/02/2008	10:00	7.05	06/03/2008	11:03	7.07
LGBH12	SP	7.05					22/02/2008	13:10	1.40	06/03/2008	10:45	1.40
RBBH07	SP	6.25					27/02/2008	12.15	0.69	06/03/2008	12:20	0.71
RBBH09	SP	7.05					27/02/2008	13:40	1.25	06/03/2008	12:25	1.21
RBBH10	SP	6.85					27/02/2008	13:00	0.68	06/03/2008	12:30	0.82

Checked by: I Swain Recorded by: S Davis Approved by: I Swain 30/01/08-07/03/08 Date: 16/04/2008 Date: 17/04/2008 Date: SI GWR 2.03 07/01/2008 Form No. Revision No. Issue Date



Project Name New M4 Preliminary Ground Investigation
Project No. F15056
Engineer Ove Arup & Partners Ltd

Client Transport Wales, Welsh Assembly
Government

Groundwater Readings
For Installations

Fig no.

NOTES: SPIE=Piezometer, SP=Standpipe

For multiple installations, use different Installation IDs.

For piezometers installation depth = tip depth. For standpipes = base of pipe

COMMENTS SBHM01 RC installation extends 0.50m above ground level. - symbol indicates water level is above GL

All groundwater levels are recorded from ground level

				els are recor	ded from	n ground						
	Insta	llation Det	ails				1	ed Water Le				
Exploratory Hole ID	Туре	Depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
SBHC01 RC	SPIE	m 8.05		dd/mm/yyyy 20/03/2008	hh:mm 16:30	m 2.57	dd/mm/yyyy 04/04/2008	hh:mm 08:00	m 2.59	dd/mm/yyyy 18/04/2008	hh:mm 07:40	m 2.66
SBHD03 CP	SPIE	10.00		20/03/2008	16:45	0.58	04/04/2008	08:13	0.53	18/04/2008	08:00	0.60
SBHD05 RC	SPIE	12.00		20/03/2008	16:00	1.08	04/04/2008	09:15	1.22	18/04/2008	08:30	1.32
SBHD06 RC	SP	15.00		20/03/2008	17:55	1.20	04/04/2008	09:30	1.33	18/04/2008	08:40	1.44
SBHD08 RC	SPIE	29.50		19/03/2008	18:30	1.28	04/04/2008	10:00	1.39	18/04/2008	08:52	1.52
SBHE02RD	SPIE	25.00		20/03/2008	16:20	2.23	04/04/2008	08:50	2.46	18/04/2008	09:00	2.54
SBHE04 RC	SPIE	17.20		20/03/2008	15:45	2.20	04/04/2008	09:00	1.80	18/04/2008	08:15	1.80
SBHF01 RC	SPIE	19.00		20/03/2008	15:30	5.50	04/04/2008	08:40	5.55	18/04/2008	13:58	5.58
SBHF02A CP	SPIE	17.00		20/03/2008	15:10	5.60	04/04/2008	10:28	5.70	18/04/2008	13:45	5.77
SBHF03 RC	SPIE	18.00		20/03/2008	14:55	7.20	04/04/2008	10:36	7.38	18/04/2008	13:40	7.42
SBHH01 RC	SPIE	25.00		20/03/2008	14:25	3.60	04/04/2008	15:00	3.60	18/04/2008	13:10	3.62
SBHH02 RC	SPIE	14.90		20/03/2008	14:30	4.27	04/04/2008	15:05	3.64	18/04/2008	13:13	3.70
SBHH05 RC	SPIE	21.50		20/03/2008	17:30	2.17	04/04/2008	15:15	2.78	18/04/2008	11:34	2.90
SBHH06 CP	SP	12.30		17/03/2008	15:20	3.88	04/04/2008	15:20	3.89	17/04/2008	14:15	3.90
SBHH07A RC	SPIE	24.85		20/03/2008	13:55	1.33	04/04/2008	15:28	1.92	18/04/2008	11:43	0.88
SBHJ01 CP	SP	7.50		19/03/2008	14:15	1.81	03/04/2008	16:05	1.90	17/04/2008	12:40	1.80
SBHJ03 СР	SP	5.20		19/03/2008	16:40	0.78	03/04/2008	18:25	0.82	17/04/2008	15:55	0.80
SBHJ04	SP	13.10		17/03/2008	13:35	6.64	03/04/2008	18:10	6.74	17/04/2008	13:08	6.80
SBHJ05	SP	11.50		18/03/2008	13:50	9.02	03/04/2008	17:39	9.10	17/04/2008	13:31	9.11
ЅВНЈ06 СР	SP	4.10		17/03/2008	12:55	1.29	03/04/2008	17:43	1.33	17/04/2008	15:05	1.20
SBHJ07 СР	SP	10.40		17/03/2008	10:25	1.59	03/04/2008	17:47	1.50	17/04/2008	13:58	1.47
SBHJ08A CP	SP	7.40		18/03/2008	10:00	2.50	03/04/2008	17:55	2.50	17/04/2008	15:33	2.50
SBHJ09 CP	SP	2.20		18/03/2008	10:25	0.69	03/04/2008	17:58	0.82	17/04/2008	15:22	0.90
SBHJ10 CP	SP	10.00		17/03/2008	09:15	2.10	03/04/2008	17:50	2.00	17/04/2008	13:55	2.00
SBHK01 CP	SP	6.80		19/03/2008	10:45	0.88	03/04/2008	16:40	1.00	17/04/2008	11:40	0.94
SBHK02 CP	SP	11.20		19/03/2008	11:15	1.46	03/04/2008	16:45	1.48	17/04/2008	11:43	1.46
SBHK03 CP	SP	5.90		19/03/2008	11:45	1.04	03/04/2008	16:48	1.07	17/04/2008	11::46	0.98
SBHK04 CP	SP	12.20		19/03/2008	12:15	1.64	03/04/2008	16:52	1.67	17/04/2008	12:05	1.60
SBHL02 RC	SPIE	15.20		19/03/2008	12:50	2.44	03/04/2008	17:00	2.45	17/04/2008	12:00	2.45
SBHL03 RC	SPIE	15.00		20/03/2008	13:25	0.76	08/04/2008	15:40	0.64	18/04/2008	09:50	0.62
SBHM01 RC	SPIE	21.00		20/03/2008	13:05	-0.21	08/04/2008	15:48	-0.45	18/04/2008	11:55	0.01
SBHM02 RC	SPIE	20.00		20/03/2008	13:10	0.61	08/04/2008	15:52	0.61	18/04/2008	11:50	0.61
SBHN01A RC	SPIE	14.90		20/03/2008	12:55	12.14	08/04/2008	16:05	12.58	18/04/2008	12:48	13.27
SBHN02 RC	SPIE	20.40		20/03/2008	12:45	4.26	08/04/2008	16:12	2.64	18/04/2008	12:45	4.85
SBHN03 RC	SPIE	15.00		20/03/2008	12:30	1.60	08/04/2008	16:17	2.07	18/04/2008	12:35	2.37
SBHN04 RC	SPIE	10.00		20/03/2008	12:10	DRY	08/04/2008	16:28	DRY	18/04/2008	10:55	DRY
			1									

Approved by: Recorded by: S Davis Checked by: I Swain I Swain 17/03/08-17/04/08 Date: 21/04/2008 21/04/2008 Date: Date: SI GWR 2.03 07/01/2008 Form No. Revision No. Issue Date



Project Name New M4 Preliminary Ground Investigation
Project No. F15056
Engineer Ove Arup & Partners Ltd
Client Transport Wales, Welsh Assembly Government

Groundwater Readings
For Installations

Fig no.

NOTES: SPIE=Piezometer, SP=Standpipe

For multiple installations, use different Installation IDs.

For piezometers installation depth = tip depth. For standpipes = base of pipe

COMMENTS

Unable to locate LGBH05 and RBBH08. LGBH06 was blocked All groundwater levels are recorded from ground level

		llation Det		els are recor		. g		ed Water Lev	/el			
Exploratory Hole ID		Depth		Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
	Туре	m	ID	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m
SBHP01 RC	SPIE	8.00		20/03/2008	12:00	DRY	08/04/2008	16:40	DRY	18/04/2008	10:45	DRY
SBHP02 RC	SPIE	9.80		20/03/2008	11:45	5.59	08/04/2008	16:55	7.98	18/04/2008	10:30	8.20
SBHP03 RC	SPIE	5.00		20/03/2008	11:40	2.80	08/04/2008	16:50	DRY	18/04/2008	10:25	4.93
SBHQ01 RC	SPIE	11.80		20/03/2008	10:40	6.72	08/04/2008	17:13	7.24	18/04/2008	10:10	7.48
SBHQ02 RC	SPIE	6.00		20/03/2008	10:45	4.91	08/04/2008	17:10	DRY	18/04/2008	10:05	DRY
SBHQ03 RC	SPIE	11.00		20/03/2008	10:50	6.76	08/04/2008	17:05	7.69	18/04/2008	10:15	8.00
SBHQ04 RC	SPIE	8.00		20/03/2008	11:30	6.97	08/04/2008	17:02	DRY	18/04/2008	10:40	DRY
SBHQ06 RC	SPIE	7.35		20/03/2008	11:20	4.47	08/04/2008	17:20	6.63	18/04/2008	12:20	4.79
SWSJ08	SP	3.30		19/03/2008	15:10	0.44	03/04/2008	16:00	0.46	17/04/2008	12:35	0.42
SWSJ13	SP	2.50		17/03/2008	13:25	DRY	03/04/2008	18:12	DRY	17/04/2008	13:12	DRY
SWSJ21	SP	6.00		18/03/2008	14:30	4.42	03/04/2008	17:33	5.89	17/04/2008	13:32	6.50
SWSJ23	SP	7.80		18/03/2008	15:05	7.58	03/04/2008	17:35	7.20	17/04/2008	13:35	7.20
SWSJ34	SP	6.00		19/03/2008	08:55	2.36	03/04/2008	17:23	3.26	17/04/2008	13:46	DRY
SWSJ37	SP	5.60		18/03/2008	11:15	0.55	03/04/2008	17:25	0.67	17/04/2008	13:42	0.63
LGBH02	SP	8.88		17/03/2008	12:55	7.48	03/04/2008	18:05	7.46	17/04/2008	13:00	7.48
LGBH03	SP	8.90		17/03/2008	13:15	7.24	03/04/2008	18:08	7.32	17/04/2008	13:03	7.30
LGBH04	SP	10.50		18/03/2008	13:20	8.87	03/04/2008	17:40	8.90	17/04/2008	13:29	8.94
LGBH09	SP	7.00		17/03/2008	11:00	1.08	03/04/2008	17:45	1.15	17/04/2008	15:08	1.05
LGBH10	SP	14.60		18/03/2008	15:20	8.31	03/04/2008	17:27	8.20	17/04/2008	13:40	8.70
LGBH11	SP	11.20		18/03/2008	11:40	6.88	03/04/2008	17:18	7.00	17/04/2008	15:38	7.08
LGBH12	SP	7.05		17/03/2008	10:00	1.30	03/04/2008	17:49	1.47	17/04/2008	15:15	1.36
RBBH07	SP	6.25		19/03/2008	13:25	0.66	03/04/2008	15:50	0.68	17/04/2008	12:30	1.10
RBBH09	SP	7.05		19/03/2008	14:40	1.18	03/04/2008	16:07	1.21	17/04/2008	12:42	1.25
RBBH10	SP	6.85		19/03/2008	13:45	0.70	03/04/2008	16:03	0.75	17/04/2008	12:39	0.78

Recorded by: S Davis Checked by: I Swain Approved by: I Swain 17/03/08-17/04/08 21/04/2008 Date: Date: 21/04/2008 Date: SI GWR 2.03 Form No. Revision No. Issue Date 07/01/2008



Appendix 3

Tabulated Soil Laboratory Data

M4CAN Soil Analysis Results & Screening Assessment CL-38 19/10/2015

		4	
Sample Reference		BH557	BH557
Specimen Depth (m)		0 - 0.2	0.4 - 1
OD Level (m)		35.4	35
Sample Type	Units	ES TOP	ES HD
Geology Code	Units	TOP	HD
Cluster Code		2015 GI	2015 GI
Inorganics			
Antimony	mg/kg		
Arsenic	mg/kg	46	18
pH Value	pH Units	7.4	7.2
Material >2mm Sulphate (soluble)	% g/l		
Calorific Value	MJ/kg		
Organics	,		
PCBs (vs Aroclor 1254)	mg/kg		
Phenols Monohydric	mg/kg		
Phenol	mg/kg		<0.5
Phenols (total)	mg/kg	<0.3	<0.3
GRO (C4-C12)	ma /lea		ı
MTBE	mg/kg mg/kg		<1
Benzene	mg/kg	<1	<1
Toluene	mg/kg	<1	<1
Ethyl benzene	mg/kg	<1	<1
m & p Xylene	mg/kg	<1	<1
o Xylene	mg/kg	<1	<1
TPH TPH >C6-C8.	ma /lea		ı
TPH >C8-C10.	mg/kg mg/kg		
TPH >C10-C12.	mg/kg		
TPH >C12-C16.	mg/kg		
TPH >C16-C21.	mg/kg		
TPH >C21-C35.	mg/kg		
Aliphatics C5-C6	mg/kg	<0.1	<0.1
Aliphatics > C6-C8	mg/kg	<0.1 <0.1	<0.1 <0.1
Aliphatics >C8-C10 Aliphatics >C10-C12	mg/kg mg/kg	<0.1	<0.1
Aliphatics >C12-C16	mg/kg	<1	<1
Aliphatics >C16-C21	mg/kg	<1	<1
Aliphatics >C21-C35	mg/kg	<1	<1
Total Aliphatics C5-C35	mg/kg		
Aliphatics >C35-44	mg/kg	<1	<1
Aromatics >C5-C7	mg/kg	<0.1	<0.1
Aromatics C6-C7 Aromatics >C7-C8	mg/kg mg/kg	<0.1	<0.1
Aromatics >EC8-EC10	mg/kg	<0.1	<0.1
Aromatics >EC10-EC12	mg/kg	<1	<1
Aromatics >EC12-EC16	mg/kg	<1	<1
Aromatics >EC16-EC21	mg/kg	<1	<1
Aromatics >EC21-EC35	mg/kg	<1	<1
Total Aromatics C6-C35 Aromatics >C35-44	mg/kg mg/kg	<1	<1
Total Aliphatic TPH	mg/kg	<5	<5
Total Aromatic TPH	mg/kg	<5	<5
TPH (Aliphatics and Aromatics C5-C35)	mg/kg		
Total petroleum hydrocarbons	ug/kg	<10	<10
PAH		•	1
Acenaphthene	mg/kg	<0.1	<0.1
Acenaphthylene Anthracene	mg/kg mg/kg	<0.1 <0.1	<0.1 <0.1
Benz(a)anthracene	mg/kg	<0.1	<0.1
Benzo(a)pyrene	mg/kg	<0.1	<0.1
Benzo(b)fluoranthene	mg/kg	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	<0.1 <0.1	<0.1 <0.1
Fluoranthene Fluorene	mg/kg mg/kg	<0.1	<0.1
Indeno(123cd)pyrene	mg/kg	<0.1	<0.1
Naphthalene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1
PAH 16 Total	mg/kg	<2	<2

Screening Values and Assessment

Exceeds S4ULs Criteria

Green

Laboratory detection level higher than screening criterion

Notes N/A IS Not applicable Insufficient sample numbers to undertake 95UCL statistical analysis Chromium VI criteria used Elemental Mercury criteria used No S4ULs available, C4SL used instead

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	Selected S4ULs Criteria	No. Data Exceeding S4ULs Criteria
0 2	0 2	None > LOD 46	None > LOD 18	DUSSE O O O O O O O O O O O O O O O O O O	470	0
2	2	7.4	7.2	BH557 @ 0 - 0.2mbGL BH557 @ 0 - 0.2mbGL	170 6-9	0
0	0	None > LOD	None > LOD	BH337 @ 0 - 0.2HIDGE	0-3	0
0	0	None > LOD	None > LOD			
-						
0	0	None > LOD	None > LOD		0.24	0
					440	0
					440	0
2	0	None > LOD	None > LOD		440	0
			No I OD			ı
0	0	None > LOD None > LOD	None > LOD None > LOD			
2	0	None > LOD	None > LOD		27	0
2	0	None > LOD	None > LOD		56000	0
2	0	None > LOD	None > LOD		5700	0
2	0	None > LOD	None > LOD		5900	0
2	0	None > LOD	None > LOD		6600	0
0	0	None > LOD	None > LOD		7800	0
0	0	None > LOD	None > LOD		2000	0
0	0	None > LOD	None > LOD		9200	0
0	0	None > LOD	None > LOD		10000	0
0	0	None > LOD	None > LOD		7600	0
0	0	None > LOD	None > LOD		7800	0
2 2	0	None > LOD None > LOD	None > LOD None > LOD		3200 7800	0
2	0	None > LOD	None > LOD		2000	0
2	0	None > LOD	None > LOD		9700	0
2	0	None > LOD	None > LOD		25000	0
2	0	None > LOD	None > LOD		450000	0
2	0	None > LOD	None > LOD		450000	0
0	0	None > LOD	None > LOD			
2	0	None > LOD	None > LOD		450000	0
2	0	None > LOD	None > LOD		26000	0
2	0	None > LOD	None > LOD		7800	0
2	0	None > LOD None > LOD	None > LOD None > LOD		56000 3500	0
2	0	None > LOD	None > LOD		9200	0
2	0	None > LOD	None > LOD		10000	0
2	0	None > LOD	None > LOD		7600	0
2	0	None > LOD	None > LOD		7800	0
0	0	None > LOD	None > LOD			
2	0	None > LOD	None > LOD		7800	0
2	0	None > LOD	None > LOD			
2	0	None > LOD	None > LOD			
0	0	None > LOD	None > LOD		+	
2	0	None > LOD	None > LOD			
2	0	None > LOD	None > LOD		29000	0
2	0	None > LOD	None > LOD		29000	0
2	0	None > LOD	None > LOD		150000	0
2	0	None > LOD	None > LOD		49	0
2	0	None > LOD	None > LOD		11	0
2	0	None > LOD	None > LOD		13	0
2	0	None > LOD	None > LOD		1400	0
2	0	None > LOD	None > LOD		370	0
2	0	None > LOD	None > LOD		93	0
2	0	None > LOD	None > LOD		1.1	0
2	0	None > LOD	None > LOD		6300	0
2 2	0	None > LOD None > LOD	None > LOD None > LOD		20000 150	0
2	0	None > LOD None > LOD	None > LOD None > LOD		190	0
2	0	None > LOD	None > LOD		6200	0
2	0	None > LOD	None > LOD		15000	0
2	0	None > LOD	None > LOD			

Sample Reference Specimen Depth (m)		BH557 0 - 0.2	BH557 0.4 - 1
OD Level (m)		35.4	35
Sample Type		ES	ES
Geology Code	Units	CLAY	CLAY
Cluster Code		2015 GI	2015 G
VOCs			
1,1,1,2-Tetrachloroethane	ug/kg		
1,1,2,2-Tetrachloroethane 1,1,1-Trichloroethane	ug/kg		<1
1,1,2-Trichloroethane	ug/kg ug/kg		<10
1,1-Dichloroethane	ug/kg		<1
1,1-Dichloroethene	ug/kg		<1
1,1-Dichloropropene 1,2,3-Trichlorobenzene	ug/kg ug/kg		<1 <2
1,2,3-Trichloropropane	ug/kg		<50
1,2,4-Trichlorobenzene	ug/kg		<2
1,2,4-Trimethylbenzene 1,2-Dibromo-3-Chloropropane	ug/kg ug/kg		<1 <50
1,2-Dibromoethane	ug/kg		<5
1,2-Dichlorobenzene	ug/kg		<1
1,2-Dichloroethane	ug/kg		<2 <1
1,2-Dichloropropane 1,3,5-Trimethylbenzene	ug/kg ug/kg		<1
1,3-Dichlorobenzene	ug/kg		<1
1,3-Dichloropropane	ug/kg		<1
1,4-Dichlorobenzene 2.2-Dichloropropane	ug/kg		<1
2.Chlorotoluene	ug/kg ug/kg		<1
4-Chlorotoluene	ug/kg		<1
4-Isopropyltoluene	ug/kg		<1
Bromobenzene Bromochloromethane	ug/kg ug/kg	-	<1 <5
Bromodichloromethane	ug/kg		<5
Bromoform	ug/kg		
Bromomethane Carbon Disulphide	ug/kg	-	<20
Carbon Disulphide Chlorobenzene	ug/kg ug/kg		<1
Chloroethane	ug/kg		<2
Chloroethene	ug/kg		<1
Chloroform Chloromethane	ug/kg		<1 <1
cis-1,2-Dichloroethene	ug/kg ug/kg		<1
cis-1,3-Dichloropropene	ug/kg		<10
Dibromochloromethane	ug/kg		<10
Dibromomethane Dichlorodifluoromethane	ug/kg ug/kg	1	<1 <1
Dichloromethane	ug/kg		- 11
Hexachlorobutadiene (HCBD)	ug/kg		<1
Isopropylbenzene	ug/kg		<1
n-Butylbenzene n-propylbenzene	ug/kg ug/kg		<1 <1
Sec-Butylbenzene	ug/kg		<1
Styrene	ug/kg		<1
Tert-Butylbenzene Tetrachloroethene	ug/kg ug/kg		<1
Tetrachloromethane (Carbon Tetra Chloride)	ug/kg		<1
trans-1,2-Dichloroethene	ug/kg		<1
trans-1,3-Dichloropropene Tribromomethane	ug/kg		<10 <1
Trichloroethene	ug/kg ug/kg		<1
Trichlorofluoromethane	ug/kg		<1
Vinyl Chloride SVOCs	ug/kg		
2,4,5-Trichlorophenol	mg/kg		<0.5
2,4,6-Trichlorophenol	mg/kg		<0.5
2,4-Dichlorophenol	mg/kg		<0.5
2,4-Dimethylphenol 2,4-Dinitrotoluene	mg/kg mg/kg	1	<0.5 <0.5
2,6-Dinitrotoluene	mg/kg		<0.5
2-Chloronaphthalene	mg/kg		<0.5
2-Chlorophenol 2-Methyl-4,6-Dinitrophenol	mg/kg mg/kg	-	<0.5 <0.5
2-Methylnaphthalene	mg/kg		<0.5
2-Methylphenol	mg/kg		<0.5
2-Nitroaniline	mg/kg	-	<0.5
2-Nitrophenol 3-Nitroaniline	mg/kg mg/kg		<0.5 <0.5
4-Bromophenyl Phenyl Ether	mg/kg		<0.5
4-Chloro-3-Methylphenol	mg/kg		<0.5
4-Chloroaniline 4-Chlorophenyl Phenyl Ether	mg/kg mg/kg	-	<0.5 <0.5
4-Methylphenol	mg/kg		<0.5
4-Nitroaniline	mg/kg	1	<0.5
4-Nitrophenol	mg/kg mg/kg		<0.5
Azobenzene Bis(2-chloroethoxy)methane	mg/kg mg/kg	<u> </u>	<0.5 <0.5
Bis(2-chloroethyl)ether	mg/kg		<0.5
Bis(2-chloroisopropyl)ether	mg/kg		<0.5
Bis(2-ethylhexyl)phthalate Butylbenzylphthalate	mg/kg mg/kg		<0.5 <0.5
Butylbenzylphthalate Carbazole	mg/kg mg/kg	<u> </u>	<0.5
Dibenzofuran	mg/kg		<0.5
Diethylphthalate	mg/kg		<0.5
Dimethylphthalate Di-N-Butyl Phthalate	mg/kg mg/kg		<0.5
Di-N-Butyi Phthalate Di-N-Octyl Phthalate	mg/kg mg/kg		<0.5
Hexachlorobenzene (HCB)	mg/kg		<0.5
Hexachlorocyclopentadiene	mg/kg		<0.5
Hexachloroethane	mg/kg	-	<0.5 <0.5
	ma/ka		
sophorone	mg/kg mg/kg		<0.5
Nitrobenzene n-nitrosodimethylamine N-Nitroso-Di-N-Propylamine	mg/kg mg/kg mg/kg mg/kg		

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	Selected S4ULs Criteria	No. Data Exceeding S4ULs Criteria
0	0	None > LOD	None > LOD			
0 1	0	None > LOD None > LOD	None > LOD None > LOD			
1	0	None > LOD	None > LOD			
1	0	None > LOD None > LOD	None > LOD None > LOD			
1	0	None > LOD	None > LOD		402000	
1	0	None > LOD None > LOD	None > LOD None > LOD		102000	0
1	0	None > LOD None > LOD	None > LOD None > LOD		220000	0
1	0	None > LOD	None > LOD			
1	0	None > LOD None > LOD	None > LOD None > LOD			
1	0	None > LOD	None > LOD			
1	0	None > LOD None > LOD	None > LOD None > LOD			
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1	0	None > LOD	None > LOD			_
1	0	None > LOD None > LOD	None > LOD None > LOD		11000 56000	0
1	0	None > LOD None > LOD	None > LOD None > LOD		59	0
1	0	None > LOD None > LOD	None > LOD None > LOD		99000	0
1	0	None > LOD None > LOD	None > LOD None > LOD			
1	0	None > LOD	None > LOD			
1	0	None > LOD None > LOD	None > LOD None > LOD			
1	0	None > LOD	None > LOD			
0	0	None > LOD None > LOD	None > LOD None > LOD		31000	0
1	0	None > LOD	None > LOD			
1	0	None > LOD None > LOD	None > LOD None > LOD			
1	0	None > LOD None > LOD	None > LOD None > LOD			
1	0	None > LOD	None > LOD			
1	0	None > LOD None > LOD	None > LOD None > LOD		19000 2900	0
1	0	None > LOD	None > LOD			
1	0	None > LOD None > LOD	None > LOD None > LOD			
1	0	None > LOD	None > LOD		1200	0
0	0	None > LOD None > LOD	None > LOD None > LOD		59	0
1	0	None > LOD	None > LOD			
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1	0	None > LOD None > LOD	None > LOD None > LOD			
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1	0	None > LOD	None > LOD			
1	0	None > LOD None > LOD	None > LOD None > LOD			
1	0	None > LOD	None > LOD			
1	0	None > LOD None > LOD	None > LOD None > LOD		30000	0
1	0	None > LOD	None > LOD		55550	Ŭ
1	0	None > LOD None > LOD	None > LOD None > LOD			
1	0	None > LOD	None > LOD			
1	0	None > LOD None > LOD	None > LOD None > LOD			
1	0	None > LOD	None > LOD		110000	0

Welsh Government

M4 Corridor around Newport

Land Contamination Assessment Report Annex D CL-39 The Elms Road Old Quarry and Lime Kiln

M4CaN-DJV-EGT-ZG_GEN-RP-EN-0024-P02

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1 Introduction

1.1 Background

- 1.1.1 This report relates to an area of land potentially affected by contamination (CL39) known as 'The Elms Road Old Quarry and Lime Kiln', herein referred to as the 'Site'.
- **1.1.2** The Site is located between chainage 22,500 and 22,600 (shown in Figure 1), associated with a small area of land historically used as a former quarry and limekiln.

1.2 Reporting Context

- 1.2.1 The Site has been assessed as part of ground investigations and monitoring associated with the wider works for the M4 Corridor around Newport (M4CaN) (hereafter referred to as the 'Scheme') and informs the baseline for the environmental impact assessment (EIA) for the Scheme. The EIA is reported in the M4CaN Environmental Statement (ES) of which this document is an appendix to the chapter on Geology and Soils
- 1.2.2 In 2014, a Preliminary Sources Study Report (2014 PSSR) was prepared as an initial land contamination appraisal (Ove Arup & Partners, 2014) as part of Design Manual for Roads and Bridges (DMRB) Stage 2 Assessments for a number of potential route options. This identified a number of individual areas that may have been affected by contamination as a result of historical activities at the Site. In addition, this report draws upon the 2015 Supplementary Ground Investigation report on behalf of the Welsh Government (Geotechnical Engineering, 2015). This report relates to the area defined on the Site Plan in Figure 1.
- 1.2.3 The overarching rationale and approach for the assessment of areas of land along the proposed new section of motorway with potential contamination is detailed in the Land Contamination Assessment Report (Appendix 11.1 of the ES).

1.3 Objectives

- **1.3.1** The key objectives of this report are as follows:
 - Undertake a risk assessment of the Site and determine whether potential risks to human health or controlled waters could exist based upon the Scheme.
 - Identify the need for further assessment and investigation in order to refine potential land contamination risks and inform the need for remediation/mitigation.
 - To provide information to support the Ground Investigation Report (GIR) and Geotechnical Design Report (GDR) required under DMRB HD22/08 (Highways Agency, 2008).

1.4 Report Structure

1.4.1 The remainder of this report is structured as follows:

- Section 2: Site Location and Description This section summarises the Site description.
- Section 3: The Scheme This section details the new section of motorway alignment and associated features at the Site.
- Section 4: Site History This section summarises the history of the Site based on historical maps and land photographs.
- Section 5: Environmental Setting This section summarises the Site description, published geology, hydrology and hydrogeology and relevant environmental information presented in the 2014 PSSR.
- Section 6: Scope of Ground Investigations Work This section describes any previous and supplementary ground investigation data available for the Site.
- Section 7: Ground Conditions This section describes the main findings of the intrusive Site investigation including the ground conditions encountered and visual or olfactory evidence of contamination identified.
- Section 8: Contamination Assessment This section describes the findings of the Tier 1 and Tier 2 contamination risk assessment based upon potential contamination sources, potential receptors and potential contaminant linkages and presents the human health and controlled waters assessments.
- Section 9: Refined Conceptual Site Model This section presents the Conceptual Site Model (CSM) for the Site and identifies potential contaminant linkages, based upon the findings of the data presented within Sections 2 to 7.
- Section 10: Conclusions and Recommendations This section provides conclusions concerning the likelihood of land contamination associated with the Site affecting the Scheme and requirements for remediation/mitigation.
- Section 11: References This section summarises the key documents referred to in this report.
- Section 12: Glossary This section provides a summary of the terms used in this report.

2 Site Location and Description

- 2.1.1 The Site is located some 25 m north of the existing M4 motorway near Magor, with centre point at National Grid Reference (NGR) ST 436 880. The Site comprises a small area of a former quarry and limekiln. The location and layout of the Site is presented in Figure 1.
- 2.1.2 The Site is currently used for agricultural purposes and forms part of a field used for grazing. The Site is oval in shape and covers an area of some 450 m². A public footpath crosses the Site. Agricultural buildings (no residential occupation has been noted) are located some 50 m to the north.
- 2.1.3 The review of aerial photography and a walkover survey undertaken in January 2014 indicated that the Site comprises a partially backfilled quarry with the top section of the quarried face still visible and marking the potential extent of the Site. The backfill materials appear to comprise quarry spoil with an abundance of angular cobbles. The surface of the backfill slopes towards the centre of the Site that forms a depression. Mature trees are present along the perimeter of the quarried area. Two arched entrances cut into to the rock remain and mark shallow (3 m) cuts into the rock, possibly part of the old limekiln, in the north of the Site.

3 The Scheme

- **3.1.1** The Site is located at chainage 22,500 to 22,600. Refer to Figure 1 for the Site location in relation to the Scheme.
- 3.1.2 The Site is on the line of the proposed link road connecting the existing M4 motorway with the new section of motorway. The new link road runs in a part cut and part embankment. The cut (northern boundary) and embankment (southern boundary) are anticipated to be less than 1 m. The link road runs parallel to the existing M4 motorway. No works on the existing motorway are proposed for this part of the Scheme. A slip road supported by a bridge crosses the existing motorway some 110 m to the east of the Site.
- 3.1.3 The shallow cutting would result in the removal of some, if not all, of the infill materials. The preference is for the removed infill materials to be reused within the Scheme.

4 Site History

- 4.1.1 The 2014 PSSR historical searches were based on Ordnance Survey plans, literature reviews, information provided by British Steel, Natural Resources Wales (NRW) (formerly Environment Agency Wales), Newport City Council and aerial photographic interpretation.
- **4.1.2** This is supplemented with the review of historical maps obtained in 2015 from Welsh Government. Relevant extracts are presented in Appendix 3.
- **4.1.3** A summary of the Site's history is presented in Table 1 below.

Table 1: Site History

Date	Use	Source of Information
1843-1893	The Site is shown to be occupied by an old quarry with old limekiln shown in the northern part of the Site.	1:10,560 Historical Mapping
1882-1921	No significant changes.	OS maps
1891-1912	No significant changes.	1:10,560 Historical Mapping
1904-1939	No significant changes.	1:10,560 Historical Mapping
1964-1965	No significant changes.	1:10,560 Historical Mapping
1969-1971	The limekiln is no longer shown.	1:10,560 Historical Mapping
1969	Part of a field; Site area overgrown with trees (as at present).	Aerial Photography
1981	Bare ground or a structure identifiable in the area previously identified as a limekiln.	Aerial Photography (infra red)
1985	Bare ground identified in the fields surrounding the Site, beyond the Site boundary. Considered to be due to agricultural activity.	Aerial Photography
1985-1996	The quarry is no longer shown.	1:10,000 Historical Mapping
1991	Bare ground no longer identified.	Aerial Photography
2006	The Site is occupied by woodland.	Aerial Photography
2009-2010	No significant changes.	Aerial Photography
2013-2014	No significant changes.	Aerial Photography

Notes: Potential sources of contamination are <u>underlined</u>. Those within the temporary and permanent land take are shown in **bold**.

- **4.1.4** The sources of information presented above supplement those used in the 2014 PSSR. Relevant extracts of the photographs are presented in Appendix 3.
- 4.1.5 The review of historical plans indicates the Site to be an old quarry and a limekiln. A Site walkover survey undertaken in 2014 indicated the Site to have been partially backfilled.
- **4.1.6** Historically the Site is located in proximity to areas which may have been bombed during World War II which is discussed in the Explosive Ordnance Threat

Assessment Report (Bactec, 2014). This categorises the site as low risk with respect to unexploded ordnance.

5 Environmental Setting

5.1 Geology

- 5.1.1 The British Geological Survey (BGS) records indicate the Site to be directly underlain by solid geology of the Mercia Mudstone Group (sandstone).
- **5.1.2** The Black Rock Limestones of the Dolostone subgroup lies uncomfortably at depth and is shown to outcrop further north of the Site.
- 5.1.3 No superficial deposits are indicated to be present. This is consistent with the observations of the residual rock face remaining following quarrying.

5.2 Hydrology

5.2.1 No surface water features are located within the Site boundary. A drain associated with the existing M4 drainage is located approximately 50 m south. The nearest watercourse is St Brides Brook located approximately 1,100 m to the west of the Site. St Brides Brook connects with Mill Reen further south.

5.3 Hydrogeology

- 5.3.1 Natural Resources Wales (NRW) records indicate the Mercia Mudstone to be a Secondary A Aquifer whilst the Black Rock Limestone has been classed as a Principal Aquifer.
- 5.3.2 The Site does not lie within a groundwater source protection zone. However it lies within a groundwater vulnerability zone classified as a major aquifer with intermediate leaching potential.

5.4 Environmental Information

- **5.4.1** NRW records do not identify any pollution incidents, sewage discharge or abstraction licences, or any waste management facilities in the vicinity of the Site.
- **5.4.2** No further environmental information relevant to this Site has been identified.

6 Scope of Investigations

6.1 General

6.1.1 No previous ground investigation information has been identified for this Site. However a number of exploratory holes were advanced within 100 m of the Site. These have been considered in order to support an understanding of ground conditions beneath the Site and inform the groundwater quality and gas regime.

6.2 Scope of Works

6.2.1 The various off site intrusive ground investigations undertaken in the near vicinity of the Site are summarised in Table 2.

Table 2: Site Investigation Summary (Off Site)

Date	Contractor	Boreholes	Trial Pits	Location from Site	Sampling
1997	Norwest Holst	BHP5	-	Approximately 50 m north	None
2015	Geotechnical Engineering	BH560	TP532	Approximately 35 m south-west and 75 m south-east, respectively	None

6.2.2 The well construction details of the above off site boreholes are summarised in Table 3.

Table 3: Summary of Off Site Borehole Construction Details

Borehole ID	Diameter (mm)	Total Drilled Depth (m)	Top of Slotted Well Casing / Gravel Pack (mbGL)	Base of Slotted Well Casing / Gravel Pack (mbGL)	Targeted Geology
BHP5	Unknown	8.05	4.5	7.5	Black Rock Limestone
BH560	50 mm	7	1	7	Marginal Facies of the Mercia Mudstone Group

6.3 Surface Water Quality Sampling

6.3.1 Surface water quality monitoring was not undertaken during the previous ground investigations of the Site.

6.4 Field Testing

6.4.1 No field testing has been undertaken on Site.

6.5 Groundwater and Land Gas Monitoring

6.5.1 A summary of the groundwater sampling, groundwater and ground gas monitoring undertaken at the selected off site boreholes are shown in Table 4.

Table 4: Summary of Monitoring Rounds (Off Site)

Location Ref.	Number of rounds (Date of Sampling)	Monitoring Details	Notes
BHP5	6 no.	Groundwater – levels	-
BH560 (50 mm)	3 no. 29 th April 2015, 7 th May 2015, 13 th May 2015	Groundwater – level ground gas	-

6.6 Laboratory Chemical Testing

6.6.1 No laboratory analysis is available for soil, groundwater, leachate or surface water samples within the Site from the previous ground investigations. No groundwater analytical data is available for the selected off site exploratory holes.

6.7 Gap Analysis of Available Data

6.7.1 There is no investigation data available for the Site from the previous ground investigations and therefore no quantitative risk assessment has been undertaken.

7 Ground Conditions

7.1 Geology

7.1.1 The geological logs for all available exploratory holes excavated in the vicinity of the Site are provided in Appendix 1. Borehole BH560 is located approximately 35 m to the south west of the Site, TP532 approximately 75 m south-east and BHP5 approximately 50 m to the north. The observed geological sequence is consistent with that described in the 2014 PSSR report and summarised in the following sections. Information from the Supplementary Ground Investigation (Geotechnical Engineering, 2015) has also been used.

Superficial Deposits

7.1.2 Unconsolidated superficial deposits were encountered within both boreholes to depths of between 0.6 and 2 mbGL. It comprises a reddish brown slightly sandy gravelly clay with frequent plant fragments. This material represents local Head Deposits. However, given Site observations, Head Deposits on the Site are likely to be thin.

Solid Geology

- **7.1.3** Within BH560 the bedrock encountered was sandstone, representing the Marginal Facies of the Mercia Mudstone Group to 7 mbGL (19 mAOD).
- 7.1.4 Within borehole BHP5, the Mercia Mudstone was also encountered, although comprising predominantly conglomerate to 4.8 mbGL (22.07 mAOD) overlying dolomite to 5.9 mbGL (21 mAOD). Beneath the dolomite, grey limestone was encountered to the base of the borehole at 18.85 mAOD. Whilst the borehole records indicate the formation as of the Mercia Mudstone Group, it is considered this may represent the Black Rock Limestone.

Geological Sequence Summary

7.1.5 The anticipated general geological sequence beneath the Site, based on the nearby off site ground investigation records, is summarised in Table 5 below.

Table 5: Summary of Geological Sequence (Based On Off Site Investigation)

Unit	Description	Thickness Range (m)	Basal Depth (mbGL)
Infill Made Ground (within the quarry pit)	Unknown	unproven	unproven
Head Deposits (outside the quarry pit)	Slightly sandy gravelly clay	0.6* - 2*	0.6* - 2*
Marginal Facies of the Mercia Mudstone Group	Sandstone bedrock	> 5*	> 7*
Black Rock Limestone	Limestone bedrock	unproven	unproven

Note: * inferred from off site exploratory holes.

7.1.6 The conceptual site model included within the 2014 PSSR report has been revised in light of the 2015 information and is presented within Figure 2.

7.2 Visual and Olfactory Evidence of Contamination

7.2.1 No visual or olfactory evidence of contamination was identified within the site. No intrusive records are available.

7.3 Gas Monitoring

7.3.1 The gas monitoring data available from previous monitoring is summarised on the field data sheets provided in Appendix 2. The maximum gas concentrations (minimum for oxygen) are presented in Table 6.

Table 6: Summary of Gas Monitoring Data (Off Site)

Location ID	Flow (l/hr)	VOCs (ppm)	CH₄ (%/vol)	Peak LEL (%)	CO ₂ (%/vol)	O ₂ (%/vol)	CO (ppm)	H ₂ S (ppm)
	Max.	Max.	Max.	Max.	Max.	Min.	Max.	Max.
BH560 50 mm	0	2.9	0.1	1	8.1	9.6	2	0

7.4 Groundwater

Groundwater Encountered During Investigation

7.4.1 No records are available from the previous ground investigations.

Groundwater Levels During Monitoring Rounds

7.4.2 Groundwater levels recorded from the selected off site boreholes are provided in Table 7.

Table 7: Summary of Groundwater Level During Monitoring Rounds (Off Site)

Location	Installation	Depths of Response Zone (mbGL) and Geological Formation	No. Measurements	Min Depth (mbGL)	Max Depth (mbGL)	Comments
BHP5	No data	4.5 - 7.5 (Black Rock Limestone)	6	Dry	6.22	-
BH560	50 mm	1 - 7 (MFMMG)	3	Dry	Dry	BH560 was dry on all monitoring occasions

Groundwater Summary

7.4.3 Groundwater is indicated from the off site BHP5 to be within the solid strata at a resting level at about 6 mbGL.

8 Contamination Assessment

- **8.1.1** The following sections provide details of the assessment of land contamination at the Site.
- 8.1.2 The conceptual site model presented within the 2014 PSSR has been reviewed based on data from the Supplementary Ground Investigation (Geotechnical Engineering, 2015) and the Scheme. The main alteration to the 2014 PSSR model are summarised as follows:
 - Revision of the anticipated geological sequence beneath the Site.
 - Removal of St Brides Brook as a potential receptor.
 - Inclusion of a ditch to the south between the Site and the motorway as a receptor.
 - Inclusion of motorway end users as a receptor.
 - Inclusion of a ground gas source within the quarry infill.
 - Update of the source-pathway-receptor linkages taking into account of the above and more detailed assessments.

Potential Sources

- 8.1.3 The material used for the backfilling of the pit is a potential source of contamination and ground gas. Observations made during the 2014 walkover survey indicated infill materials exposed at the surface to comprise quarry spoil with a resultant low potential for contamination and ground gas generation.
- 8.1.4 Some infill is anticipated to be removed as part of the proposed cutting of the new slip road. Beneath the proposed embankment, the Made Ground may be left in place.
- **8.1.5** Perched water within the backfill material may be present at the base of the quarry.

Potential Receptors

8.1.6 Receptors during the construction and operational stages of the Scheme have been considered:

Construction

- Construction workers during Site development works.
- General Public (existing M4 user) / Site neighbours (users of the agricultural buildings located some 50 m to the north-east) adjacent to construction works.
- Groundwater (Secondary Aquifer/Principal Aquifer) during earthworks operation and soils improvement/treatment works.

Operational

- Maintenance workers.
- General public end users.

Groundwater (Secondary Aquifer/Principal Aquifer).

Potential Pathways

- **8.1.7** Pathways during the construction and operational stages of the Scheme have been considered:
 - Dermal contact, ingestion, inhalation pathways possible during construction works.
 - Inhalation pathways possible during operation works.
 - Leaching of contaminants from the fill materials to the Principal Aquifer during excavation or soil treatment.

8.2 Risk Evaluation

- 8.2.1 Source-pathway-receptor linkages were considered in the 2014 PSSR using the historical data available up to 2008. With review of the other data described herein, the following risk evaluation has been reconsidered and included the following:
 - The quarry backfill is indicated to potentially comprise quarry soil materials although this is based on visual evidence at the surface and remained unconfirmed.
 - Full depth of infill unknown.
 - The Site topography is indicated to be at approximately 25 mAOD and groundwater within the bedrock around 20 mAOD therefore there is potential for the infill materials to extend below the underlying aguifer.
 - The Scheme is likely to require part removal of infill materials, part capping (from the embankment construction).
 - Hardstanding cover is likely to limit infiltration thus reducing leaching.
 - Raised ground gas (carbon dioxide) with depleted oxygen levels has been identified in the off site borehole (BH560) some 35 m south-west. Source of off site abnormal gas has not been established.
 - The nearest surface water is the St Brides Brook which is discounted as a viable receptor given its distance to the Site (1.1 km).
 - Motorway users will be within an open environment with no proposed structures or other confined spaces.

8.3 Human Health Risk Assessment

8.3.1 No chemical soils data is available for the Site from the previous ground investigations.

8.4 Controlled Waters Screening Assessment

8.4.1 No groundwater quality or soil leachate data is available on site or in the near vicinity from the previous ground investigations.

8.5 Ground Gas Risk Assessment

- 8.5.1 No monitoring wells were installed on site during the previous investigations and therefore no gas monitoring data is available. Off site gas monitoring is available for borehole BH560 some 35 m south-west of the Site. The monitoring well is installed within the Black Rock Limestone which is found below the Mercia Mudstone at the Site. The following initial comments may be made:
 - No monitoring was undertaken during low barometric pressure (less than 1000 mb), with the lowest conditions being 1011 mb. As such worst case atmospheric conditions for potential ground gas generation may have not been monitored.
 - Gas flow was recorded absent during all rounds.
 - Methane has been recorded of up to 0.1 % on the first round and absent for the subsequent two rounds. The concentrations are at or below the initial screening criteria of 1 %. The Lower Explosion Limit of up to 1 % is noted for the first round reducing and nil for the following two. Given the lack of correlation between methane concentration per volume and per LEL, it is considered these marginal readings to be caused by equipment inaccuracy rather than representative of the presence of actual methane gas.
 - Carbon dioxide is identified to be generally between 4 and 8.1 % across the monitoring data. The concentrations are generally at or above the screening criteria of 5 %.
 - Trace of Volatile Organic Compounds of up to 2.9 ppm has been recorded.
 - Hydrogen sulphide was not detected throughout the monitoring.
 - Carbon monoxide was identified with a maximum concentration of 2 ppm which is lower than the Work Place Exposure Limit of 30 ppm.
 - Oxygen has been recorded to be at ambient or depleted concentrations of between 9.6 and 20.6 %.
- **8.5.2** The available data identifies raised carbon dioxide and depleted oxygen conditions and these may be related to the presence of limestone bedrock rather than gas migration from any materials used to backfill the quarry at the Site.
- **8.5.3** Further assessment of the gas regime at the Site will be required to confirm associated risks.

9 Refined Conceptual Site Model

- 9.1.1 The incorporation of data from the 2015 supplementary Ground Investigation has enabled the CSM presented in the 2014 PSSR to be updated. All relevant contaminant (source-pathway-receptor) linkages have been considered within the refined CSM. The assessment is based on the proposed Scheme during construction and operational phases.
- 9.1.2 A CSM representing general ground conditions, overall Scheme layout and relevant source-pathway-receptors (each of which having a specific alphanumerical symbol attached) is presented in Figure 2 and is described in Table 8.

Table 8: Conceptual Site Model

Contamination Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment	
	Construction						
Potentially contaminated Made Ground	Construction workers (Bc)	Direct dermal (1)	Likely	Moderate	Moderate	Construction workers will possibly be exposed to Made Ground materials during Site construction works; however exposure duration will be short term only. Prior to construction, a specific risk assessment will be required in line with CDM and health and safety guidance. This will enable safe methodology and appropriate levels of PPE to be put in place. As such all risks will be duly considered and suitably mitigated to protect construction workers. No data available for the Site. Current contamination status is not foreseen to represent abnormal constraints to construction workers health and safety over and above those	
		Ingestion (3)	Likely	Moderate	Moderate	typical of a brownfield site. Absence of ground gas data from Made Ground formation. Additional monitoring data may be considered. Dust suppression measures are	
		Inhalation of soil dust (2)		Moderate	Moderate	recommended during construction works. Made Ground subject to ground improvement to improve its bearing capacity. This may increase vertical pathways from any potential ground gas	

Contamination Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
		Inhalation of ground gas or vapours (2)	Likely	Moderate	Moderate	and mobilise potential contamination to groundwater or surface waters. No chemical analysis has been undertaken at the Site however exposed materials at surface indicate possible backfill with quarry spoil. Construction to be within open space. Any earthworks within confined space would require specified risk assessment, control measures and PPE. Off site abnormal gas regime identified some 35 m south-west. Additional investigation required to confirm the potential presence of any Made Ground and associated risks.
		Dermal contact with soil dust (1)	Low	Low	Low	During construction there is the possibility of short term exposure only. Dust suppression measures are recommended during construction works. Off-site receptors are at least 50 m from
	Off site users during construction	Ingestion of soil dust (3)	Low	Low	Low	proposed earthworks. Off site abnormal gas regime identified some 35m south west. Significant flux of gas not anticipated. Additional investigation and soil testing required to confirm the characteristic of
	works (C)	Inhalation of soil dust (2)	Low	Low	Low	the Made Ground and associated risks.
		Inhalation of ground gas or vapour (3)	Low	Low	Low	

Contamination Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
	Groundwater aquifer (Da)	Mobilisation of contaminants due to excavation and/or ground improvement works (4)	Likely	Moderate	Moderate	It is considered that the base of the quarry may extend below the water table. Excavation works or ground improvement may cause mobilisation of contaminants within the backfill materials and migration into the underlying aquifer. No data available. A foundations works risk assessment is required to confirm the absence of risk to controlled waters. Additional investigation required to confirm the presence of Made Ground and associated risks.
	Operation					
Potentially contaminated Made Ground	Maintenance workers (Bm)	Inhalation of ground gas (2)	Unlikely	Moderate	Low	Made Ground to be fully encapsulated (subject to passing reuse criteria) or removed therefore the exposure to contamination will be limited to ground gas inhalation. Exposure duration will be short term only. Site specific risk assessment will be required in line with health and safety guidance. This will enable safe methodology and appropriate levels of PPE to be put in place. As such all risks will be duly considered and suitably mitigated. Infill not anticipated to pose gassing potential. However abnormal gas regime identified on an adjacent off site borehole. Additional investigation required to confirm the presence of Made Ground and associated risks.

Contamination Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
	Future motorway users (A) and off-site users (C)	Inhalation of ground gas (2)	Unlikely	Moderate	Low	Made Ground to be removed or encapsulated entirely by the proposed cutting and embankment (subject to passing reuse criteria) removing direct pathways. New pathways for ground gas to be created with possible ground improvement works. Presence of pavement provides a barrier to migration gases. Receptors within open space. Off site receptors are some 50 m from proposed earthworks. Infill not anticipated to pose gassing potential. However abnormal gas regime identified on an adjacent off site borehole. Additional investigation required to confirm the presence of Made Ground and associated risks.
Potentially contaminated Made Ground	Groundwater aquifer (Da)	Leaching of potential contaminants and downward migration (4)	Likely	Moderate	Moderate	Ground improvement may provide pathways for migration of potential contaminant from the infill, if remaining post construction. Hardstanding will reduce infiltration and thus reduce leaching potential. No data available. A foundations works risk assessment is required to confirm the absence of risk to controlled waters. Additional investigation required to confirm the presence of Made Ground and associated risks.

10 Conclusions and Recommendations

10.1 Conclusions

- 10.1.1 No ground investigations have been undertaken at the Site during the previous ground investigations, however, based on the desk study information gross contamination is not anticipated. The preliminary risk assessment has identified that low risks to human health and low to moderate risks to controlled waters could exist.
- **10.1.2** Normal construction control measures will be required to facilitate the construction and ongoing operation of the scheme.
- 10.1.3 During the construction phase, specific mitigation measures will be required to prevent inhalation pathways of dust to the general public off site and construction workers. A suitable water management strategy will also be required to prevent impact to surface waters from run-offs.
- **10.1.4** Materials from excavations are considered likely to be suitable for reuse subject to compliance with reuse criteria under a Materials Management Plan.
- 10.1.5 Abnormal ground gas regime has been identified in an adjacent off site borehole, although this may simply be associated limestone bands within the bedrock rather than associated with any historical activities undertaken at the Site.

10.2 Recommendations

- 10.2.1 In order to confirm the low to moderate risks associated with the Site in relation to both construction and operational phases, it is recommended that intrusive investigation including testing of soils, soil leachate and possible gas and groundwater is undertaken.
- Upon review and assessment of the recommended ground investigation information, any contamination identified that could cause an unacceptable risk to the identified receptors will require appropriate remedial mitigation measures. These measures would be identified within a remediation strategy for the Scheme. A remediation strategy for the Scheme should be developed that for the Site includes the following:
 - Addressing potential human health and controlled waters risk identified by the proposed additional ground investigation.
 - Risk assessment of possible ground improvement creating pathways enabling contaminants migration.
 - Dealing with unexpected contamination.
 - Verification sampling to confirm suitability of soils for reuse.
 - Control measures (over and above good practice construction management) to prevent risks to construction workers and the general public during construction.
 - Verification of material used as topsoil.

- **10.2.3** The remediation strategy should include a remediation options appraisal, remediation implementation plan and remediation verification plan.
- 10.2.4 The remediation strategy should be supported by a Scheme wide Materials Management Plan prepared in accordance with CL:AIRE Code of Practice (CL:AIRE, 2011).

11 References

Bactec (2014) Explosive Ordnance Threat Assessment in respect of M4 Corridor around Newport for Hyder Consulting (UK) Limited, 5750TA

CL:AIRE (2011) Definition of Waste. Development Industry Code of Practice, Version 2, March 2011, ISBN 978-1-905046-23-2

Geotechnical Engineering (2015) M4 Corridor Around Newport, Factual Report on Ground Investigation, 30238

Highways Agency (2008) Design Manual for Roads and Bridges. Vol. 4. Geotechnics and Drainage. Section 1. Earthworks; Part 2. HD22/08. Managing Geotechnical Risk.

Ove Arup & Partners (2014) M4 Corridor Around Newport, Preliminary Sources Study Report, 14/9197

12 Glossary

BF Blast Furnace

BGS British Geological Survey

BOD Biochemical Oxygen Demand

BOS Basic Oxygen Slag

BTEX Benzene, Toluene, Ethylbenzene and Xylene

CAT Cable Avoidance Tool

CDM Construction Design Management

CH₄ Methane

CLEA Contaminated Land Exposure Assessment

CO₂ Carbon Dioxide

CO Carbon Monoxide

COD Chemical Oxygen Demand

CSM Conceptual Site Model

DMRB Design Manual for Roads and Bridges

DO Dissolved Oxygen

DQRA Detailed Quantitative Risk Assessment

DWS Drinking Water Standard

EC Electrical Conductivity

EIA Environmental Impact Assessment

ES Environmental Statement

ESG Environmental Scientifics Group

EQS Environmental Quality Standard

FTIR Fourier Transform Infrared (spectroscopy)

GAC Generic Assessment Criteria

GDR Geotechnical Design Report

GIR Ground Investigation Report

GRO Gasoline Range Organics

LEL Lower Explosive Limit

LOD Limit of Detection

mAOD Metres Above Ordnance Datum

mb Millibars

mbGL Metres below Ground Level

MTBE Methyl Tert-butyl Ether

NRW Natural Resources Wales

ORP Oxidation Reduction Potential

O₂ Oxygen

OS Ordnance Survey

PAH Polycyclic Aromatic Hydrocarbon

PCB Polychlorinated Biphenyl

PCSM Preliminary Conceptual Site Model

PID Photo Ionisation Detector

PPE Personnel Protection Equipment

SGVs Soil Guideline Values

SSAC Site Specific Assessment Criteria

SSSI Site of Special Scientific Interest

SVOCs Semi-Volatile Organic Compounds

TOC Total Organic Carbon

TPH Total Petroleum Hydrocarbon

TPH CWG Total Petroleum Hydrocarbon Criteria Working Group

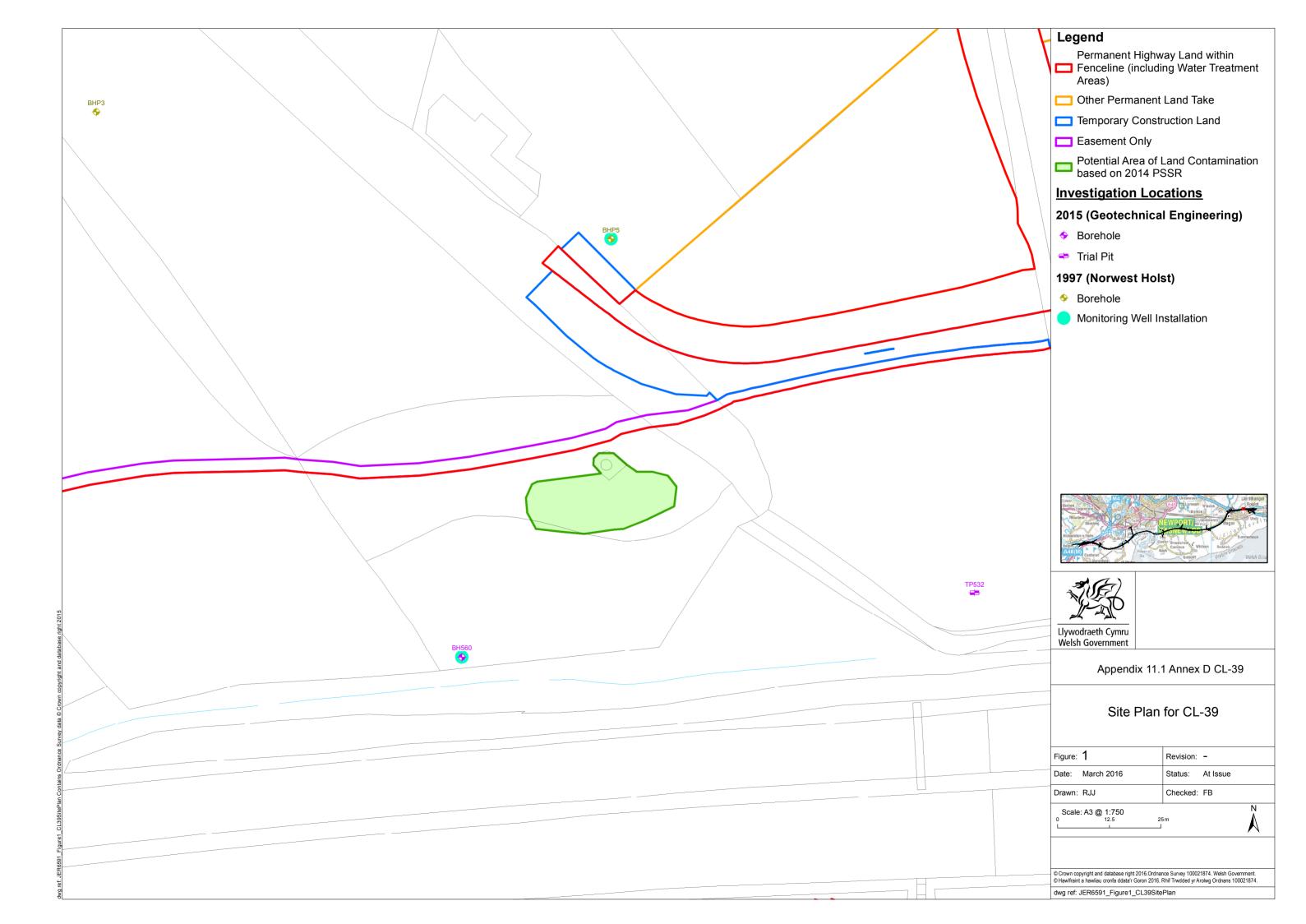
UKAS United Kingdom Accreditation Service

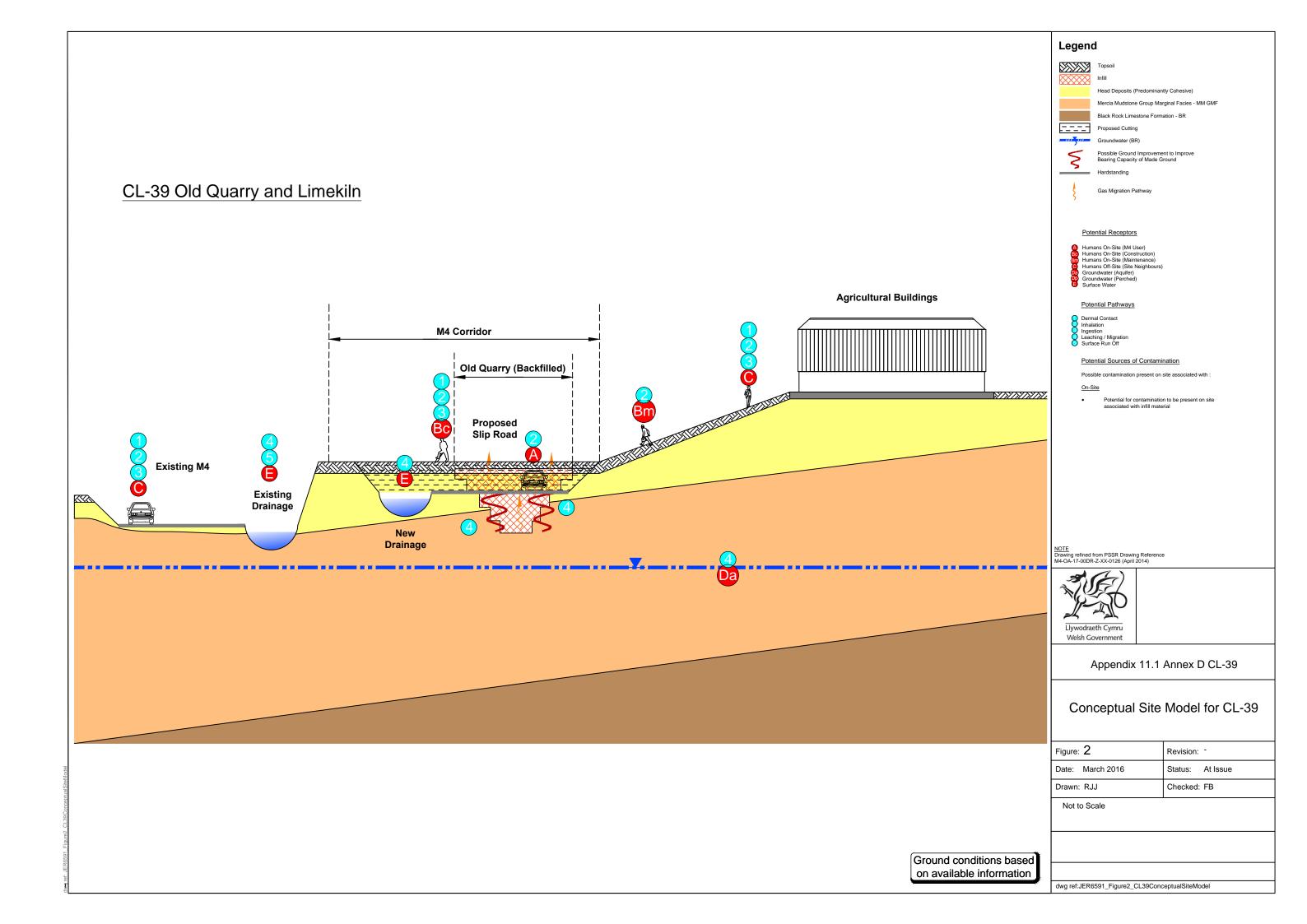
VOCs Volatile Organic Compounds

WFD Water Framework Directive

UXO Unexploded Ordnance Survey

Figures





Appendices

Appendix 1

Exploratory Records



Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - ROTARY

Ρ

Borehole No.

BHP5

Contract No.

F10895

Project

M4 Relief Road Magor to

Castleton Stage 2

Method

Rotary Coring

Coordinates

343650.1 E

Drilling Rig Driller

Knebel 77 E.DT.R/C.D

Ground Level

188062.0 N 26.90m AOD

Client

Welsh Office

Logged by

Orientation Date Started

Vertical 27/10/1997

Consultant

Ove Arup and Partners

NB All depths in metres, all diameters in millimetres,

water strike rise time in minutes.

Core barrel Core bit

Saw Tooth

Date Completed

27/10/1997

Form

ROTARY HEADER

25/06/1997

	PROGRESS						DRI	LLING DET	AILS	
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To depth	Fłush type	Flush return	Core diameter
27/10/1997	1800	8,05	2.10	Dry		0,00	2.00			NR
						2.00	8,05	air & mist	100%	92
	l [

	CASI	NG					WATER	STRIKES			
Hole diameter	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing dept to seal flow
120	8.05	140	2.10								
								ļ			
											1

GENERAL NOTES			SPT DETAILS
 Borehole open holed from ground level to 2.00m. Piezometer installed, tip at 7.00m. 	Depth	Туре	Incremental blow count/penetration in mm
	1.00	S	N=17 (1,2,4,4,4,5)
		!	



Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Borehole No.

BHP5 Sheet 1 of 1

Project

Client

F10895

M4 Relief Road Magor to

Castleton Stage 2

Castleton Stage

NB All depths in metres, all diameters in millimetres.

strikes. See legend sheet for key to symbols.

See header sheet for details of drilling, progress and water

Welsh Office

Method Drilling Rig

Rotary Coring ig Knebel 77

Driller Logged by

E.D T.R/C.D

P.R/C

Coordinates

343650.1 E

188062.0 N

26.90m AOD

Ground Level Orientation Date Started

Vertical 27/10/1997

Consultant

Ove Arup and Partners

Core barrel Core bit

Saw Tooth

Date Completed

27/10/1997

Form

Version

Revised

NH ROTARY LOG

1.00

16/09/96

	Description of Strata	Legend	Depth Below G.L.	O.D. Level	Coring a		TCR	SCR	RQD	屈	SPT N & depth	Install ation
	Sandy CLAY (drillers description).			-								
	(Head Deposits)			_								
			:	_								
	at 1.00m firm to stiff										817 1.00_ 1.45	
				-								超區
				[.								
ļ		00000	2.00	24.90								
	Yellowish brown thinly to medium sub-horizontally bedded moderately weathered dolomitic CONGLOMERATE strong with	00000								NI		
	medium spaced sub-horizontal discontinuities planar rough	00000		_								
	slightly open to tight and many gravel size vugs. (Marginal Facies of Mercia Mudstone Group)	00000		<u>-</u>	2.00	3.60	100	66	58			
	(Margmar Pacies of Mercia Mudstone Group)	00000		_	2.55	5.00	100	-	50	4		相目
	from 2.00 to 2.45m highly weathered very	00000		_							•	
	weak completely fractured	00000		_								国目
	from 3.00 to 4.10m with some fine to medium	00000		-	<u> </u>							
	gravel size vugs	00000			3.60	4.10	100	30	28	3		33 R
		00000		-							-	70 K
	from 4.10m very thinly to thinly sub-horizontally bedded moderately to highly	00000	i i	- -								$\Rightarrow R$
	weathered	00000								4		-X K
		00000	4.83	22.07	4.10	5,60	90	65	37			
	Yellowish brown thinly sub-horizontally bedded slightly			- -								
	weathered DOLOMITE strong and with occasional fine gravel size vugs closely to medium spaced thick laminations to very			-						5		
	thin beds of yellowish grey dolomitic limestone with closely		1	-								
	spaced sub-horizontal discontinuities planar rough tight. (Margina Facies of Mercia Mudstone Group)			- -				_		2		
			5.90	21.00								
	from 4.83 to 5.10m yellowish green	╱╞╬┰╬┰╬	1	_								
`	Grey medium to thickly sub-horizontally bedded fresh to			-	5.60	7.20	97	94	80	3		攜慢
	slightly weathered LIMESTONE very strong with medium spaced		1							,		3.4
	sub-horizontal discontinuities planar rough tight. (Marginal Facies of Mercia Mudstone Group)	1 1 1	1	_								
	(Marghiar Pacies of Mercia Musicile Croup)]	-							-	- 4
			1	-								3
			1	_	7.20	8.00	94	88	88	3		
]	-								XX
			8.05	- 18.85								- XXX
	Rotary drilling complete at 8.05 m.			-								_
				E					1			-
				£ .							1]
				-								_
				Ē								1
				L '								_
				-								-
				-								1

Geotechnical Engineering Limited

BOREHOLE LOG



CLIENT WELSH GOVERNMENT

17 February 2015

1 of 1

SITE M4 CORRIDOR AROUND NEWPORT

> Scale 1:50

Start Date 16 February 2015

End Date

Easting 343614.1

187961.2 Ground level

Northing

26.00mOD Depth 7.00 m

Sheet

progress date/time water depth	sample no & type	depti	h (m)	casing depth (m)	test type & value	samp. /core range	I _f	inst		description	depth (m)	reduced level (m)	legend
16/02/15 0930hrs	1B 2D* 3B 4D* 5C	0.00 - 0.00 - 0.30 - 0.30 - 0.60 - 1.00 -	0.30 0.60 0.60 1.00	- - - - - - Nil - 1.00	Vo 0.9 Vo 2.8 C*273	100 0 0 100 0	NI	X		Grass over reddish brown slightly sandy gravelly CLAY with frequent plant fragments (up to 5mm). Gravel is subangular fine and medium sandstone. (TOP) Reddish brown mottled grey slightly sandy gravelly CLAY with medium subangular sandstone cobble content and frequent plant fragments (up to 5mm). Gravel is subangular fine and medium sandstone. (HDD) Strong and very strong thinly bedded light and dark grey	0.30	25.70 25.40	
16/02/15 1620hrs 0.30m				- - - - - - -						medium SANDSTONE. Fractures are subhorizontal to 20° and 70° to subvertical very closely spaced planar rough stained orangish brown locally mottled black. Recovered non intact. (MMMF)	- - - -		
17/02/15 0925hrs	7C	2.00 -	2.20	1.00		100 0 0					-		
1.80m	8C	2.20 -	2.50	1.00		100					-		
	9C	2.50 -	3.00	1.00		100 0					-	00.00	
	10C	3.00 -	4.00	1.60		100 63 63	NI 200 500			Strong and very strong thinly bedded light and dark grey medium SANDSTONE. Fractures are subhorizontal to 20° and 70° to subvertical closely and medium spaced planar rough stained orangish brown locally mottled black. (MMMF)	3.00_	23.00	
	11C	4.00 -	5.50	- - 1.60		93 58 53				(- - - - - -	-	
	12C	5.50 -	7.00	- 1.60		100 60 57				5.00 - 5.50m: Recovered non intact.	-		
17/02/15 1530hrs 1.05m				- - - - - -							7.00	19.00	
				- - - - - - -						Borehole completed at 7.00m.	{8.00}		

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-0.60m. Waterflush rotary core drilled (116mm) 0.60-7.00m.

CASING: 140mm diam to 1.60m.

BACKFILL: On completion, a slotted standpipe (50mm) was installed to 7.00m, granular response zone 7.00-1.00m, bentonite seal 1.00-0.20m, concrete and raised cover 0.20-0.00m.

REMARKS: Driller notes reduced flush returns 2.00-7.00m: 50-60% returned.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

> Groundwater not encountered prior to use of water flush.



CONTRACT 30238

CHECKED EC

30238 YODA.GPJ TRIALJH.GPJ GEOTECH.GLB 16/07/2015 16:12:56 RM Geotechnical Engineering Ltd, Tel. 01452 527743

Geotechnical Engineering Limited

TRIAL PIT LOG



CLIENT WELSH GOVERNMENT

11 002

1 of 1

SITE M4 CORRIDOR AROUND NEWPORT

Sheet

Start Date 16 February 2015 Easting

Scale 1 : 50

End Date 16 February 2015 Northing 187976.7 Ground level 21.10mOD Depth 1.70 m

343737.8

water		sample/to	est	description	depth	level	legend
record	no/type	result	depth (m)	description	(m)	(m)	legenu
	1B 2D* 3D*	Vo 0.1 Vo 1.3	0.00- 0.20 0.00- 0.20 0.20- 0.40 0.50- 0.70	Grass over soft locally firm dark brown sandy CLAY with frequent rootlets (<1mm \diam.). Firm dark brown slightly gravelly slightly sandy CLAY. Gravel is angular and subangular fine to coarse sandstone.	0.20	20.90	
	4B 5D* 6D*		0.50- 0.70 0.70- 0.90 0.90- 1.10	0.60 - 0.90m: Light brown. Light yellowish brown very silty very gravelly fine to coarse SAND, Gravel is	0.90	20.20	
	7B	Vo 1.0	1.20- 1.40	angular and subangular fine to coarse sandstone. Rare sandstone cobbles.	-		
Dry	8D*		1.50- 1.70	Trial pit completed at 1.70m.	1.70	19.40	

Notes

Trial pit excavated by JCB 3CX mechanical excavator.

Groundwater not encountered.

Trial pit sides remained stable and vertical.

Trial pit dimensions 0.70x2.50x1.70m.

On completion, the trial pit was backfilled with materials arising.

Trial pit terminated 1.70m due to the strength of the ground.

Sketch of Foundation - Not to scale. All dimensions in metres.



CONTRACT

CHECKED

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS



Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Hole ID. SBHN01 RC Header

Contract No. F15056 Method

Rotary Coring

341960.35 E

Project

New M4 - Second Preliminary GroundDrilling Rig Investigation

Site Master

Client

Transport Wales, Welsh Assembly

ВВ

187619.31 N

Driller

Ground Level

18.90m AOD

Government

Logged by

DH Orientation PWF Date Started Vertical 17/12/2007

Consultant

Ove Arup & Partners Ltd

Core barrel Core bit TC

Date Completed

Coordinates

18/12/2007

			PROGRESS				DR	ILLING DET	AILS	
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To depth	Flush type	Flush return	Core diameter
17/12/2007	1730	8.00	3.50	5.10	End of Shift	0.00	2.00	Air/Mist	100%	0.00*
18/01/2008	0730	8.00	3.50	1.80	Start of Shift	2.00	9.30	Air/Mist	100%	92.0
18/01/2008	1730	9.30	3.50	NR	End of Hole					

	CAS	SING					1	WATER STR	IKES		
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
121	9.30	121	3.50	17/12/2007	1100	3.45	3.20	20	Seepage	NR	NR

GENERAL NOTES			SPT DETAILS		
1.Rotary Openhole from GL to 2.00m.	Depth	Туре	Incremental blow count/penetration	Casing	Water Depth
2.Rotary Coring from 2.00m to 9.30m. 3.Rotary coring terminated at 9.30m, refer to SBHN01A for redrill. 4.Borehole grouted upon completion. 5.0.00* indicates openhole drilling.	1.20 2.00 3.00 4.00 5.00 6.00 7.00	S S S	Incremental blow count/penetration N=8 (1,1,2,2,2,2) N=24 (2,2,4,6,6,8) N=26 (2,3,3,6,7,10) N=24 (14,7,5,4,5,10) N=93 (3,22,18,25,25,25) 90/160mm (25,74,16) 100/30mm (25,100)	0.00 0.00 2.00 3.50 3.50 3.50 3.50	Depth DRY DRY DRY 1.20 1.70 1.90 1.50

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes.

Form	ARIAL ROTARY HEADER
Version	3.06
Revised	17/12/2007

NORWEST •

Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Hole ID.

SBHN01 RC

Sheet 1 of 1

Method Coordinates Contract No. F15056 **Rotary Coring** 341960.35 E New M4 - Second Preliminary GrourDirilling Rig Project Site Master 187619.31 N Investigation ВВ **Ground Level** 18.90m AOD DH Logged by Orientation Vertical Client Transport Wales, Welsh Assembly PWF Core barrel Date Started 17/12/2007 Government Ove Arup & Partners Ltd Consultant Core bit TC Date Completed 18/12/2007

	Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	RQD	F	SPT N & depth	Install- ation
	Turf over firm brown TOPSOIL. (Driller's description)		0.20	- - 18.70							-
	MADE GROUND: Very dense brick/boulder fill. (Driller's description)			- - -							
	Stiff red brown mottled yellowish brown silty CLAY. (Driller's description)		0.80	- 18.10 -						-	_
				- - -						1.20 1.65 S8	
			2.00	- - 16.90						2.00 2.45 -	_
	Zone of core loss. Stiff red brown mottled yellowish brown silty CLAY. (Driller's description)			- - - -	2.00 3.00		NA	NA		S24	
	Very weak to extremely weak greyish brown MUDSTONE.		3.00	_ 15.90 						3.00 3.45 - \$26	
	(Mercia Mudstone Group (Marginal Facies)from 3.00m to 3.34m recovered as non intact core (gravelly clay. Gravel is angular fine to medium sized fragments)from 3.38m to 4.00m assumed zone of core loss				3.00 4.00	38	4	0	NI NI NI		
	from 4.00m to 4.28m recovered as non intact core (gravelly clay. Gravel is angular fine to medium sized fragments)				4.00 4.70	87	43	24		4.00 4.45 - \$24	
\	from 4.57m to 4.61m recovered as non intact core (gravelly clay. Gravel is angular fine to medium sized fragments)		4.70	- - 14.20 - - - 13.90	4.70 5.00		NA	NA		5.00 5.45 -	
//	from 4.61m to 4.70m assumed zone of core loss Zone of core loss		0.00	- 10.00					NI NI 310	S93	
	Very weak to extremely weak greyish brown MUDSTONE (Mercia Mudstone Group (Marginal Facies))from 5.00m to 5.19m recovered as non intact core		6.00	- - - - - - 12.90	5.00 6.00	55	35	35		6.00 6.21 -	
	(gravelly clay. Gravel is angular fine to medium sized fragments)from 5.35m to 5.55m occasional thick laminations of weak reddish brown mudstone. Highly weatheredfrom 5.55m to 6.00m assumed zone of core loss			- - - - -	6.00 7.00	75	75	44		S90/160mm	
	Very weak to weak thinly laminated reddish brown MUDSTONE. Discontinuities 1) 0 -10 deg extremely closely to medium spaced undulating rough. (Mercia Mudstone			- - - -					-	7.00 7.05 - S100/30mm	
	Group (Marginal Facies))from 7.00m to 7.53m with many extremely closely spaced laminations of weak grey mudstone and weak grey siltstone. Highly weathered			- - - -	7.00 8.00	96	92	47	NI 110 220		
	from 7.53m to 7.89m some very closely spaced laminations of weak to medium strong light grey siltstone. Moderately weatheredfrom 7.68m to 7.72m recovered as non intact core			- - - - -						-	
	(angular to subangular fine to coarse gravel sized fragments of mudstone)from 7.89m to 8.19m many very closely spaced thick laminations of weak to medium strong light greyish brown siltstone. Moderately weathered			- - - -	8.00 9.30	90	67	55		-	
	weathered at 8.21m 1 No thick discontinuous lamination of very weak grey mudstone. Highly weathered at 8.24m 1 No thick discontinuous lamination of very		9.30	9.60							

Form	ARIAL ROTARY LOG
Version	3.09
Revised	17/12/2007

NORWEST O

Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Hole ID.

SBHN01 RC

Sheet 1+ of 1

F15056 Coordinates Contract No. Method **Rotary Coring** 341960.35 E New M4 - Second Preliminary GrourDirilling Rig Project Site Master 187619.31 N Investigation ВВ **Ground Level** 18.90m AOD DH Orientation Logged by Vertical Client Transport Wales, Welsh Assembly PWF Core barrel Date Started 17/12/2007 Government Ove Arup & Partners Ltd Consultant Core bit TC Date Completed 18/12/2007

Description of Strata	Legend		Datum Level	Coring and	TCR	SCR	ROD	<u></u>	SPT N & depth	Install
Remaining Detail: 8.24m - 8.24m: weak grey mudstone. Highly weathered;; 8.26m - 8.27m:from 8.26m to 8.27m recovered as non intact core (angular fine to medium gravel sized fragments);;; 8.30m - 8.36m:from 8.30m to 8.36m many extremely closely spaced thin laminations of weak grey siltstone. Moderately weathered;; 8.36m - 8.50m:from 8.36m to 8.50m to Normal Moderately weathered;; 8.50m - 8.69m:from 8.50m to 8.69m recovered as non intact core (angular fine to coarse gravel sized fragments of mudstone);; 9.15m - 9.17m:from 9.15m to 9.17m to 9.30m assumed zone of core loss Rotary drilling complete at 9.30 m.	Legend	Length		Sampling	101	SOS SOS SOS SOS SOS SOS SOS SOS SOS SOS	RQI		& depth	ation
			_ _ _							- - - -

Form	ARIAL ROTARY LOG
Version	3.09
Revised	17/12/2007



Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Hole ID. SBHN01A RC Header

Coordinates Contract No. F15056 Method **Rotary Coring** 341999.49 E Project

New M4 - Second Preliminary GroundDrilling Rig Site Master 187625.32 N

Investigation ВВ Driller **Ground Level** 20.48m AOD

Transport Wales, Welsh Assembly DH Orientation Client Logged by Vertical Government Core barrel PWF Date Started 18/12/2007 Consultant Ove Arup & Partners Ltd Core bit TC Date Completed 09/01/2008

PROGRESS					DRILLING DETAILS								
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To depth	Flush type	Flush return	Core diameter			
18/12/2007	1730	2.00	1.80	DRY	End of Shift	0.00	2.00	Air/Mist	100%	0.00*			
19/12/2007	0730	2.00	1.80	DRY	Start of Shift	2.00	5.60	Air/Mist	0%	92.0			
19/12/2007	1730	6.60	3.00	5.00	End of Shift	5.60	6.60	Air/Mist	10%	92.0			
20/12/2007	0730	6.60	3.00	6.50	Start of Shift	6.60	9.40	Air/Mist	100%	92.0			
20/12/2007	1730	9.40	6.50	8.00	End of Shift	9.40	15.00	Air/Mist	100%	92.0			
08/01/2008	0730	9.40	6.50	5.50	Start of Shift								
08/01/2008	1730	10.60	6.50	5.50	End of Shift								
09/01/2008	0730	10.60	6.50	5.00	Start of Shift								
09/01/2008	1730	15.00	6.50	NR	End of Hole								

	CAS	SING		WATER STRIKES								
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise		Casing depth at strike time	Casing depth to seal flow	
121	15.00	121	6.50		-							

2.Rotary Coring 2.00m to 15.00m. 3.19mm piezometer installed, tip at 14.90m, with response zone 14.40m to 15.00m. 2.00 s	Туре	Incremental blow count/penetration	Casing	Water
3.19mm piezometer installed, tip at 14.90m, with response zone 14.40m to 15.00m. 2.00 2.00			Casing	Depth
4.20 5.20 5.20 6.60 7.60 8.60 8.60 5	S S S S S S S	N=8 (2,2,2,2,2) N=13 (3,2,3,4,4,2) 21/300mm - Abandoned N=22 (17,8,7,7,4,4) 33/300mm - Abandoned N=72 (4,8,14,19,24,15) N=67 (6,10,11,19,8,29) 100/130mm (25,50,50) 100/160mm (9,14,30,50,20)	0.00 0.00 1.80 3.00 3.00 6.50 6.50 6.30	Depth DRY DRY 4.00 5.00 6.50 6.50 8.00 5.50

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes.

Form	ARIAL ROTARY HEADER
Version	3.06
Revised	17/12/2007

NORWEST O

Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Hole ID.
SBHN01A RC
Sheet 1 of 2

F15056 Method Coordinates Contract No. **Rotary Coring** 341999.49 E New M4 - Second Preliminary GrourDirilling Rig 187625.32 N Project Site Master Investigation ВВ **Ground Level** 20.48m AOD DH Orientation Logged by Vertical Client Transport Wales, Welsh Assembly PWF Core barrel Date Started 18/12/2007 Government Ove Arup & Partners Ltd Consultant Core bit TC Date Completed 09/01/2008

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	RQD	ഥ	SPT N Instal & depth ation
Brown CLAY with frequent limestone, sandstone cobbles. (Driller's description)		0.00	- - - - - - 19.88						- X
Dark brown reddish brown silty CLAY with frequent limestone/sandstone cobbles. (drillers description)		0.60	19.00						1.00 1.45 — S8 —
Boulder of strong to very strong yellowish brown fine to medium grained sandstone			_ _ _ _ 18.48 _ _	2.00 2.50	24	NA	NA		2.00 2.45 — S13
from 2.00m to 2.12m recovered as non intact core (subangular gravel sized fragments)from 2.12m to 2.50m assumed zone of core lossfrom 2.89m to 3.20m assumed zone of core loss			-	2.50 3.20	56	NA	NA	NA	
from 3.24m to 3.25m reddish brownfrom 3.28m to 3.29m greyfrom 3.34m to 3.70m assumed zone of core loss		,	- - - - - - 16.78	3.20 3.70	24	NA	NA		3.20 3.62 - S21/300mm - Atlanti
Zone of core loss. reddish brown silty clay with frequent sandstone gravelly bands. (Driller's description)		0.70	- - - - - - -	3.70 4.20		NA	NA	NA	4.20 4.65 - S22
Firm to stiff brown slightly gravelly CLAY with occasional rootlets. Gravel is angular fine to coarse of	, , , , , , , , , , , , , , , , , , ,	4.70	- - - 15.78 - -	4.20 4.70 4.70 5.20		NA 0	NA 0		
sandstonefrom 5.16m to 5.20m assumed zone of core loss		5.60	- - - - - 14.88	5.20 5.40 5.40 5.60		0 2	0	NA NI NI 50	5.20 5.63 - S33/300mm - Atbani
Weak to very weak reddish brown locally greyish brown MUDSTONE. (Mercia Mudstone Group(Marginal Facies))from 5.60m to 5.80m thin bed of strong red limestonefrom 5.81m to 7.05m recovered as non intact core (firm to stiff slightly gravelly clay. Gravel sized fragments are angular fine to medium)			-	5.60 6.60	100	0	0		- 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100
from 6.60m becomes greyish brownfrom 7.07m to 7.12m recovered as non intact core (firm to stiff slightly gravelly clay. Gravel sized			-	6.60 7.60	52	0	0	NI NI 20	6.60 7.05 7
fragments are angular fine to medium)from 7.12m to 7.60m assumed zone of core lossfrom 7.60m to 7.86m recovered as non intact core (firm to stiff slightly gravelly clay. Gravel sized fragments angular fine to medium)from 7.90m to 8.60m assumed zone of core loss			- - - - - - -	7.60 8.60	30	7	0		7.60 8.05
from 8.60m to 8.76m recovered as non intact core (angular to subangular fine to coarse gravel sized fragments)from 9.04m to 9.18m recovered as non intact core			-	8.60 9.40	73	23	15	NI 30 125	8.60 8.81 - S100/130mm -
(slightly gravelly clay. Gravel sized fragments are angular fine)from 9.18m to 9.40m assumed zone of core loss		9.40 9.63	- 11.08 - 10.85					NI NI NI	9.40 9.71 - S100/160mm

Form	ARIAL ROTARY LOG
Version	3.09
Revised	17/12/2007

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Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Hole ID.
SBHN01A RC
Sheet 2 of 2

Method Coordinates Contract No. F15056 **Rotary Coring** 341999.49 E New M4 - Second Preliminary GrourDirilling Rig Project Site Master 187625.32 N Investigation ВВ **Ground Level** 20.48m AOD DH Logged by Orientation Vertical Client Transport Wales, Welsh Assembly PWF Core barrel Date Started 18/12/2007 Government Ove Arup & Partners Ltd Consultant Core bit TC Date Completed 09/01/2008

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	RQD	Ŀ	SPT N & depth	Install- ation
		20.19.11	-		78	56	43		<u> </u>	
9.40m - 9.63m : Extremely weak grey MUDSTONE. Destructured. Recovered as non intact core (soft to firm grey slightly gravelly clay. Gravel is angular to subangular fine to medium). (Mercia Mudstone Group (Marginal Facies))								NI 120		
9.63m - 12.50m : Weak to moderately strong interlaminated grey MUDSTONE and reddish brown fine grained SANDSTONE. Moderately weathered and destructured. Discontinuities 1) 0 -15 deg very closely			- - - - -	10.60 11.80	96	73	62	240		
to closely spaced undulating rough locally clay infilled. (Mercia Mudstone Group (Marginal Facies)) Detail 9.78m - 9.80m:from 9.78m to 9.80m recovered as non intact core (grey gravelly clay. Gravel sized fragments are angular fine to coarse of mudstone)		12.50	- - - - 7.98	11.80 13.40	94	88	60			
Detail 10.40m - 10.60m :from 10.40m to 10.60m assumed zone of core loss Detail 10.60m - 10.78m :from 10.60m to 10.78m 1 No thin bed of extremely weak grey mudstone. Destructured. Recovered as gravelly clay. Gravel sized fragments are angular fine to coarse		13.40	- - - - - - - - 7.08					NI 220 410		
Detail 11.70m - 11.75m :from 11.70m to 11.75m recovered as non intact core (angular coarse gravel sized fragments) Detail 11.75m - 11.80m :from 11.75m to 11.80m assumed zone of core loss	X X X X X X X X X X X X X X X X X X X	14.10	- - - - - - 6.38	13.40 15.00	90	89	63	NI 90 180		
Detail 12.30m - 12.32m :from 12.30m to 12.32m 1 No very thin bed of reddish brown sandstone. Moderately weathered Detail 12.38m - 12.43m :from 12.38m to 12.43m 1 No			-	13.40	90	69	63	140 300 510		
very thin bed of reddish brown sandstone. Moderately weathered from 10.40m to 10.60m assumed zone of core lossfrom 10.60m to 10.78m 1 No thin bed of extremely weak grey mudstone. Destructured. Recovered as gravelly clay. Gravel sized fragments are angular fine to coarsefrom 11.70m to 11.75m recovered as non intact core (angular coarse gravel sized fragments)from 11.75m to 11.80m assumed zone of core lossfrom 12.30m to 12.32m 1 No very thin bed of reddish brown sandstone. Moderately weatheredfrom 12.38m to 12.43m 1 No very thin bed of reddish brown sandstone. Moderately weathered		15.00	5.48							12502 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Medium strong thin laminated reddish brown locally light reddish brown fine grained SANDSTONE. Locally with laminations of reddish brown and grey mudstone. (Mercia Mudstone Group (Marginal Facies))from 12.73m to 12.88m 1 No thin bed of extremely weak reddish brown mudstone. Destructured. Recovered as slightly gravelly clay. Gravel sized fragments are angular fine to coarse										
infilled with fine gravel sized quartz crystals ifrom 13.31m to 13.40m assumed zone of core loss Interlaminated weak reddish brown SILTSTONE and very weak grey MUDSTONE. Discontinuities 1) 0-15 deg			-							
extremely closely to closely spaced undulating rough locally clay infilled. (Mercia Mudstone Group (Marginal Facies)from 13.75m to 13.77m recovered as non intact core			- · 							
(gravelly clay. Gravel sized fragments are angular fine			-							

Form	ARIAL ROTARY LOG
Version	3.09
Revised	17/12/2007

NORWEST O

Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Hole ID.
SBHN01A RC
Sheet 2+ of 2

F15056 Coordinates Contract No. Method **Rotary Coring** 341999.49 E New M4 - Second Preliminary GrourDirilling Rig 187625.32 N Project Site Master Investigation ВВ 20.48m AOD **Ground Level** DH Orientation Logged by Vertical Client Transport Wales, Welsh Assembly PWF Core barrel **Date Started** 18/12/2007 Government Ove Arup & Partners Ltd Consultant Core bit TC Date Completed 09/01/2008

		D.::!!	Dat	O-min			1		OPTN	
Description of Strata	Legend	Drilled Length		Coring and Sampling	TCR	SCR	RQD	브	SPT N & depth	Install- ation
13.40m - 14.10m : Remaining Detail : 13.75m - 13.77m : to coarse of mudstone);;; 13.77m - 13.81m :from 13.77m to 13.81m 1 No discontinuity 90 deg undulating rough stained dark brown;;; 13.78m - 13.81m :from 13.77m to 13.81m 1 No very thin bed of weak reddish brown fine grained sandstone. Moderately weathered 14.10m - 15.00m : Strong to very strong reddish brown fine grained SANDSTONE. Moderately weathered. Discontinuities 1) 0 - 10 deg medium spaced undulating rough. 2) 0 - 10 deg very closely to closely spaced incipient discontinuities undulating infilled with quartz. (Mercia Mudstone Group (Marginal Facies));;; 14.22m - 14.34m :from 14.22m to 14.34m 1 No stylolite 80 - 90 deg;;; 14.82m - 15.00m :from 14.82m to 15.00m assumed zone of core loss Rotary drilling complete at 15.00 m.										

Form	ARIAL ROTARY LOG
Version	3.09
Revised	17/12/2007



Norwest Holst Soil Engineering Ltd. TRIAL PIT LOG

Hole ID.
STPN03
Sheet 1 of 1

Contract No. F1:

F15056

Method Hand Excavated

Logged by

341975.28 E

Project

New M4 - Second Preliminary Ground

Investigation Equipment

Hand Tools Ground Level

187629.53 N

Client Transport Wales, Welsh Assembly Government

WA

Date Started
Date Completed

Coordinates

20.69m AOD 06/12/2007 06/12/2007

Consultant

Ove Arup & Partners Ltd

Description of Strata	Legend	Depth Below G.L.	Datum Level	S	Sampling	Remarks
Brown clayey TOPSOIL. MADEGROUND: light brown slightly clayey slightly sandy slightly gravelly SILT with low cobble content. Gravel is angular to subrounded fine to coarse of limestone. Cobbles are subangular of limestone and brick. (Head		0.30	20.39	ES1 D2 B3	0.30 0.30 0.30	- - - - - -
Deposits) Trial pit complete at 1.20 m.		1.20	- - 19.49	ES4 D5 B6 ES4	1.00 1.00 1.00 1.00	- - - - - -
			- - - -			- - - - - -
			- - -			
			-			
			-			
			- - - -			- - -
			-			
			 - - -			- · - - -
			-			-

Stability

All faces stable

Shoring

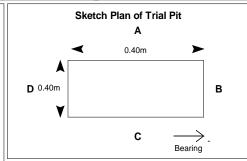
None used

Groundwater

None encountered during excavation

Remarks

1. Hand excavated trial pit complete at 1.20m.



NOTES: All depths in metres, all soil strengths in kPa. See legend sheet for key to symbols and abbreviations. All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.06
Revised	17/12/2007



Norwest Holst Soil Engineering Ltd. TRIAL PIT LOG

Hole ID. STPN04 Sheet 1 of 1

Contract No.

F15056

Method

Hand Excavated

Coordinates

341991.56 E

Project

New M4 - Second Preliminary Ground

Hand Tools

Ground Level

187644.33 N 17.63m AOD

Client

Transport Wales, Welsh Assembly

Government

Investigation

Logged by

Equipment

Date Started WA Date Completed 06/12/2007 06/12/2007

Consultant

Ove Arup & Partners Ltd

Description of Strata	Legend	Depth Below G.L.	Datum Level	S	Sampling	Remarks
Brown clayey TOPSOIL.		0.30	- - - 17.33	ES1	0.30	
MADEGROUND: light brown silty slightly sandy slightly gravelly CLAY with low cobble content. Gravel is angular to subrounded fine to coarse of limestone and			- - -	D2 B3	0.30 0.30	
brick. Cobbles are subangular of limestone. (Head Deposits) Trial pit complete at 1.00 m.		1.00	- - 16.63 - -	ES4 D5 B6	1.00 1.00 1.00	Unable to penetrate large limestone cobble/boulder
			- - -			-
			- - -			- - -
			- - -			
			- - -			- -
			- - -			
			- - -			- - - -
			- - -			
			_ _ _			
			- · - -			- ·
			- - -			- - - -

Stability

All faces stable

Shoring

None used

Groundwater

None encountered during excavation

Remarks

1. Hand excavated trial pit terminated at 1.00m due to hard

strata.

	Sketch	n Plan of Trial A	Pit
	◀	0.40m	>
D 0.40m			В
•		С	Bearing

NOTES: All depths in metres, all soil strengths in kPa. See legend sheet for key to symbols and abbreviations. All bearings given relate to magnetic North

Form ARIAL TP LOG Revised 17/12/2007

Appendix 2

Tabulated Gas Monitoring Data

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

M4 CORRIDOR AROUND NEWPORT SITE:



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH560	29/04/15 13:30:00	1011	-0.56								0.0	13		0 litres purged, dry. Base depth
BH560	29/04/15 13:31:00										0.0			7.00m.
BH560	29/04/15 13:32:00										0.0			
BH560	29/04/15 13:33:00										0.0			
BH560	29/04/15 13:34:00										0.0			
BH560	29/04/15 13:35:00			0.2	0.1	20.6	1.0	0	0	2.9				
BH560	29/04/15 13:36:00			0.9	0.0	20.1	0.0	0	1	2.4				
BH560	29/04/15 13:37:00			2.6	0.0	18.7	0.0	0	1	2.1				
BH560	29/04/15 13:38:00			4.0	0.1	17.5	0.0	0	1	2.1				
BH560	29/04/15 13:39:00			5.1	0.0	16.5	1.0	0	2	2.1				
BH560	29/04/15 13:40:00			6.1	0.0	15.6	0.0	0	2	1.9				
BH560	29/04/15 13:41:00			6.7	0.0	15.1	0.0	0	2	1.8				
BH560	29/04/15 13:42:00			6.8	0.1	15.0	0.0	0	2	1.7				
BH560	29/04/15 13:43:00			6.9	0.0	15.0	0.0	0	2	1.6				
BH560	29/04/15 13:44:00			6.9	0.1	15.0	1.0	0	2	1.5			Dry	
BH560	07/05/15 12:30:00	1011	0								0.0	15		0 litres purged, dry. Base depth 7.00m.
BH560	07/05/15 12:31:00										0.0			7.00111.
BH560	07/05/15 12:32:00										0.0			

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT

30238

CHECKED EC

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

M4 CORRIDOR AROUND NEWPORT SITE:



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH560	07/05/15 12:33:00										0.0			
BH560	07/05/15 12:34:00										0.0			
BH560	07/05/15 12:35:00			2.1	0.0	16.5	0.0	0	0	1.0				
BH560	07/05/15 12:36:00			2.8	0.0	16.4	0.0	0	0	0.8				
BH560	07/05/15 12:37:00			2.3	0.0	17.0	0.0	0	0	0.7				
BH560	07/05/15 12:38:00			4.1	0.0	14.7	0.0	0	0	0.9				
BH560	07/05/15 12:39:00			3.2	0.0	15.9	0.0	0	0	0.8				
BH560	07/05/15 12:40:00			3.2	0.0	15.8	0.0	0	0	0.8				
BH560	07/05/15 12:41:00			2.7	0.0	16.3	0.0	0	0	0.7				
BH560	07/05/15 12:42:00			2.6	0.0	16.6	0.0	0	0	0.7				
BH560	07/05/15 12:43:00			3.0	0.0	16.0	0.0	0	0	0.8				
BH560	07/05/15 12:44:00			3.3	0.0	15.8	0.0	0	0	0.8			Dry	
BH560	13/05/15 11:00:00	1016	0								0.0	16		0 litres purged, dry. Base depth 7.00m.
BH560	13/05/15 11:01:00										0.0			7.00111.
BH560	13/05/15 11:02:00										0.0			
BH560	13/05/15 11:03:00										0.0			
BH560	13/05/15 11:04:00										0.0			
BH560	13/05/15 11:05:00			8.0	0.0	9.6	0.0	0	1	2.8				
remarks														CONTRACT CHECKED

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT

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30238

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: WELSH GOVERNMENT

M4 CORRIDOR AROUND NEWPORT SITE:



Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H ₂ O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remark	KS .
BH560	13/05/15 11:06:00			8.0	0.0	9.6	0.0	0	0	2.5					
BH560	13/05/15 11:07:00			8.1	0.0	9.6	0.0	0	0	2.3					
BH560	13/05/15 11:08:00			8.1	0.0	9.6	0.0	0	0	2.0					
BH560	13/05/15 11:09:00			8.1	0.0	9.6	0.0	0	0	1.7					
BH560	13/05/15 11:10:00			8.1	0.0	9.6	0.0	0	0	1.5					
BH560	13/05/15 11:11:00			8.1	0.0	9.7	0.0	0	0	1.3					
BH560	13/05/15 11:12:00			8.1	0.0	9.8	0.0	0	0	1.3					
BH560	13/05/15 11:13:00			8.0	0.0	10.0	0.0	0	0	1.3					
BH560	13/05/15 11:14:00			8.0	0.0	10.1	0.0	0	0	1.3			Dry		
remarks													Г	CONTRACT	CHECKE

denotes result exceeding capacity of gas monitoring equipment VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

30238

EC

Appendix 3

Relevant Extract of Additional Environmental Data



Plate 01: Extract of 1843-1893 map of the Site area showing the Old Quarry and Limekiln.



Plate 02: Extract of 1985 Aerial Photograph.

Client:	Welsh Go	vernment		
Project:	M4CaN			
Job Ref:	JER6591	Checked By:	Date: Oct 2015	5



Plate 03: Extract of 2014 high resolution aerial photograph showing the vegetated natured of the Site.

Client: Welsh Government

Project: M4CaN

Job Ref: JER6591 Checked By: Date: Oct 2015

Welsh Government

M4 Corridor around Newport

Land Contamination Assessment Report Annex D CL-41 Severn Junction Tunnel Yard

M4CaN-DJV-EGT-ZG_GEN-RP-EN-0025-P02

At Issue | March 2016

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1 Introduction

1.1 Background

- **1.1.1** This report relates to the potentially contaminated land area CL-41 known as the 'Severn Junction Tunnel Yard' herein referred to as the 'Site'.
- **1.1.2** The Site is located between chainage 23,800 and 24,000 (see Figure 1), upon an area of former railway land.

1.2 Reporting Context

- 1.2.1 The Site has been assessed as part of ground investigations and monitoring associated with the wider works for the M4 Corridor around Newport (M4CaN) (hereafter referred to as the 'Scheme') and informs the baseline for the environmental impact assessment (EIA) for the Scheme. The EIA is reported in the M4CaN Environmental Statement (ES) of which this document is an appendix to the chapter on Geology and Soils.
- 1.2.2 In 2014, a Preliminary Sources Study Report (2014 PSSR) was prepared as an initial land contamination appraisal (Ove Arup and Partners, 2014) as part of Design Manual for Roads and Bridges (DMRB) Stage 2 Assessments for a number of potential route options. This identified a number of individual areas that may have been affected by contamination as a result of historical activities. In addition, this report draws upon the 2015 Supplementary Ground Investigation report (Geotechnical Engineering, 2015) on behalf of the Welsh Government.
- 1.2.3 The overarching rationale and approach for the assessment of areas of land along the new section of motorway with potential contamination is detailed in the Land Contamination Assessment Report (Appendix 11.1 of the ES).

1.3 Objectives

- **1.3.1** The key objectives of this report are set out below:
 - Undertake a risk assessment of the Site and determine whether potential risks to human health or controlled waters could exist based upon the Scheme.
 - Identify the need for further assessment and investigation in order to refine potential land contamination risks and inform the need for remediation/mitigation.
 - To provide information to support the Ground Investigation Report (GIR) and Geotechnical Design Report (GDR) required under DMRB HD22/08 (Highways Agency, 2008).

1.4 Report Structure

1.4.1 The remainder of this report is structured as follows:

- Section 2: Site Location and Description.
- Section 3: The Scheme This section details the M4CaN alignment and associated features at the Site.
- Section 4: Site History This section summarises the history of the Site based on historical maps and historical land photographs.
- Section 5: Environmental Setting This section summarises the Site description, published geology, hydrology and hydrogeology and relevant environmental information presented in the 2014 PSSR.
- Section 6: Scope of Ground Investigations Work This section describes previous and supplementary ground investigation data available at the Site.
- Section 7: Ground Conditions This section describes the main findings of the intrusive site investigations including the ground conditions encountered and significant visual or olfactory evidence of contamination identified.
- Section 8: Contamination Assessment This section describes the findings of the Tier 1 and Tier 2 contamination risk assessment based upon potential contamination sources, potential receptors and potential contaminant linkages and presents the human health and controlled waters assessments.
- Section 9: Refined Conceptual Site Model This section presents the Conceptual Site Model (CSM) for the Site and identifies potential contaminant linkages based upon the findings of the data presented within Sections 2 to 7.
- Section 10: Conclusions and Recommendations This section provides conclusions concerning the likelihood of land contamination associated with the Site affecting the Scheme and requirements for remediation/mitigation.

2 Site Location and Description

- 2.1.1 The Site is located at the eastern end of the Scheme, in the area of the Magor Interchange, centred at National Grid Reference (NGR) ST 451 876. It comprises an area of former railway land, the Severn Junction Tunnel Yard. The location and Site layout is provided on Figure 1.
- 2.1.2 The existing M4 transects the Site into eastern and western parts. The western part is bounded by a railway line to the south. The eastern part extends further to the south across the mainline railway lines. Agricultural land bounds the Severn Junction Tunnel Yard to the north. A row of residential properties is located to the north-eastern part.
- 2.1.3 The Scheme only crosses the central part of the Site in the area where the existing M4 embankment and railway bridge are located.
- 2.1.4 The Site is longitudinal in shape and covers an area of some 26.6 hectares (ha), out of which 7.5 ha falls within the Scheme.
- 2.1.5 A walkover survey undertaken in January 2014 indicated that the Site formed derelict land. Whilst access to the very central area of the Site was not possible, access was made to the western area and the eastern areas via publically accessible routes.
- 2.1.6 Evidence of former industrial activity was noted during the walkover of the western area with slag evident at the surface, fragments of railway trucks and building foundations, derelict buildings and an embankment running along the central part of the Site. During the visit remains of bonfires and littering was noted across the visible areas of the Site.

3 The Scheme

- 3.1.1 The Site is situated at approximate chainage 23,800 to 24,000 and Figure 1 shows the Site location in relation to the Scheme. Only the central part of the Site falls within the study area for the purpose of this report.
- 3.1.2 The Scheme within the Site area comprises widening of the embankment of the existing motorway that will form part of the permanent works.
- **3.1.3** Currently there are no proposals to alter the railway bridge.

4 Site History

- **4.1.1** The 2014 PSSR historical searches have been based on Ordnance Survey plans, literature reviews, information provided by British Steel, Natural Resources Wales (NRW) (formerly Environment Agency Wales), Newport City Council and aerial photographic interpretation.
- **4.1.2** This is supplemented by a review of historical maps obtained in 2015 from Welsh Government. Relevant extracts are presented in Appendix 5.
- **4.1.3** A summary of the Site's history is presented in Table 1 below.

Table 1: Site History

Date	Use	Source of Information
1843-1893	A railway line bounds the western part of the Severn Junction Tunnel Yard with fields and occasional woodland further north. Fields and a network of reens/drains surround the railway line which cuts through the eastern part of the yard.	1:10,560 Historical Mapping
1891-1912	Additional <u>railway lines/sidings</u> are shown in the eastern part of the yard.	1:10,560 Historical Mapping
1904-1939	Additional railway lines/sidings are shown in the eastern part of the yard. A tank is shown on the northern boundary of the eastern half.	1:10,560 Historical Mapping
1921 - 1938	Severn Tunnel Junction marshalling yard raised area.	Ordnance Survey (OS) map
1964-1965	Additional railway lines/sidings are shown in the eastern part of the yard.	1:10,560 Historical Mapping
1969	Railway sidings cover the entire yard including the central area.	Aerial Photography
1969-1971	No significant change.	1:10,560 Historical Mapping
1981	No significant change. Storage of railway carriages observed within the yard. Five buildings are observed within the northern boundary of the eastern area and a further building within the central eastern area. A track runs along the northern boundary of the western area.	Aerial Photography
1981-83	Railway sidings are no longer shown.	OS 1:250 Historical Mapping
1985	Railway sidings still visible.	Aerial Photography
1991	Railway sidings no longer identified within the yard. Western area appears to be roughly vegetated. Track remains along the northern boundary.	Aerial Photography (image only available for the western area)
1996	M4 Severn Crossing constructed within the Site.	Internet Research
1998	Majority of the Site area appears to be scrub vegetation. With several tracks, including a hardstanding track in the central eastern area. The footprint of the railway sidings is still visible. M4 now seen to cross the railway in the current position in the central area of the Site. Three buildings remain along the northern boundary of the eastern area of the Site (two demolished).	Aerial Photography

Date	Use	Source of Information
2006	The western area of the Site is vegetated with wooded areas. Tracks have been developed across the western area and there is evidence of possible fly-tipping.	Aerial Photography (image only available for the western area)
2009-2010	No significant changes.	Aerial Photography (image only available for the western area)
2013-2014	No significant change in the western area. Railway sidings, a storage shed and a track are identified alongside the railway line in the eastern area. Tracks and disturbed ground identified in the central area leading to an approximately 50 m x 15 m area of what appears to be plastic sheeting, approximately 20 m to the east of the proposed land take area. Storage of materials identified on the hardstanding track adjacent. Small scale earthworks identified 25 m beyond the northern boundary of the Site, approximately 450 m east of the proposed land take area.	Aerial Photography
2014	No significant change in the western area. Plastic sheeting no longer identified. Area of bare ground in the central area of the Site (200 m east of proposed land take area) has increased in size.	High Resolution Aerial Photography

^{*}Notes: Potential sources of contamination are underlined.

- 4.1.4 The sources of information presented above supplement those used in the 2014 PSSR. In particular, the 2013/2014 aerial photograph has identified new potentially contaminative activities in the vicinity of the proposed land take area. Relevant extracts of the photographs are presented in Appendix 4.
- 4.1.5 The review of historical plans and published information on the history of the Severn Tunnel Junction Yard indicates that it has been a railway depot and sidings since the late 1880s until 1987, when it was closed.
- **4.1.6** In mid-1990, the Severn Crossing was constructed with the motorway crossing the Site.
- 4.1.7 Historically the Site was in the vicinity of areas that may have been bombed during World War II which is described in detail within the Explosive Ordnance Threat Assessment Report (Bactec, 2014). There is thus a risk from unexploded ordnance at the Site which is categorised as a low risk site (Bactec, 2014).

5 Environmental Setting

5.1 Geology

- 5.1.1 British Geological Survey (BGS) records indicate much of the Site is underlain by Tidal Flat Deposits. The deposits extend further and cover the eastern part of the Severn Junction Tunnel Yard. The northern end of the Site and eastern part of the yard are indicated to have no superficial deposits with pockets of River Terrace Deposits present in the vicinity.
- 5.1.2 Beneath the Site and the majority of the Severn Junction Tunnel Yard, the bedrock comprises the Mercia Mudstone Group together with Black Rock Limestone.

5.2 Hydrology

- 5.2.1 No surface water features are located within the Site boundary. Two land drainage ditches are located to the north of the central part of the Site stretching between the Site and Red Barn Farm.
- 5.2.2 A lake forms part of the Manor House farm land. It is located to the north of the eastern part of the Site (outside the study area).
- 5.2.3 A number of ponds and ditches are located directly to the south of the eastern Site area (to the north of the existing Toll facilities). From the OS plan it is unclear if these ditches connect to the wider network of reens of the Caldicot Levels Site of Special Scientific Interest (SSSI) located further to the south.
- 5.2.4 Vurlong Reen appears to commence south of the western Site area, across the railway line and connects to the reens of the Caldicot Levels.

5.3 Hydrogeology

- 5.3.1 NRW classifies the bedrock at the Site as a Secondary B Aquifer in the Mercia Mudstone (mudstone) in the central region, Secondary B Aquifer in the Mercia Mudstone (sandstone) in the east, and the Mercia Mudstone Marginal Facies (conglomerate) in the west and Black Rock Limestone at the western tip of Site as Principal Aquifers.
- 5.3.2 The River Terrace Deposits are classified as a Secondary A Aquifer and the Tidal Flat Deposits as Unproductive Strata.
- **5.3.3** The Site does not lie within a groundwater source protection zone, however parts of the Site lie within groundwater vulnerability zones. To the west an area of the

Site is classified as a minor aquifer with intermediate leaching potential and the western tip is classified as a major aquifer with intermediate leaching potential.

5.4 Environmental Information

- **5.4.1** NRW records do not identify any pollution incidents, sewage discharge or abstraction licences, or any waste management facilities on or in close proximity of the Site.
- **5.4.2** The Gwent Levels Magor and Undy SSSI is located approximately 200 m to the south.

6 Scope of Investigations

6.1 General

6.1.1 Two ground investigations include works that have been undertaken within the Site. The information provided covers the existing M4 motorway and has been summarised below.

6.2 Scope of Works

6.2.1 The intrusive investigations that have been undertaken within the Site area are summarised in Table 2.

Table 2: Site Investigation Summary - On Site

Date	Contractor	Site Location	Boreholes	Window Sampler	Trial Pits	Sampling
2008	Norwest Holst	Central	SBHQ06RC	-	STPQ06	Soil
2015	Geotechnical Engineering	Central	BH567	-	-	Soil

6.2.2 To improve the understanding of ground conditions, the off site borehole, summarised in Table 3 has also been considered.

Table 3: Site Investigation Summary – Off Site

Date	Contractor	Off Site Location	Boreholes	Window Sampler	Trial Pits	Sampling
2015	Geotechnical Engineering	26 m south	BH568	-	-	Soil

6.2.3 The construction details of all boreholes installed on the Site are summarised in Table 4.

Table 4: Summary of Borehole Construction Details

Borehole ID	Diameter (mm)	Total Drilled Depth (m)	Top of Slotted Well Casing / Gravel Pack (mbGL)	Base of Slotted Well Casing / Gravel Pack (mbGL)	Targeted Geology
SBHQ06RC	19	8	7.1	8	Mercia Mudstone

6.3 Surface Water Quality Monitoring

6.3.1 Surface water quality monitoring was undertaken on two occasions at location R20 during spring and summer 2008 and on one occasion at location 20.1 during spring 2015. The locations are described in Table 5.

Table 5: Surface Water Monitoring Locations

Surface Water Location ID	Location Description	Comments
R20/IDB 24a	Located at Pratt Reen, approximately 100 m south of the Site.	Dry on four occasions.
20.1	Located at Pratt Reen, approximately 70 m south of the Site.	Low flow, large amounts of vegetation within the reen.

6.3.2 The historical surface water chemical results are presented in the Baseline Surface Water Quality Monitoring Report by Titan Environmental Surveys Limited (2008). This is supplemented by the 2015 monitoring programme undertaken as part of the Baseline Water Environment Report (Appendix 16.2 of the ES).

6.4 Field Testing

6.4.1 Monitoring of Volatile Organic Compounds (VOCs) was undertaken on two shallow soil samples from trial pit STPQ06 at 0.3 and 1.0 mbGL.

6.5 Groundwater Monitoring

6.5.1 A summary of the groundwater sampling, groundwater/monitoring and ground gas monitoring is shown in Table 6.

Table 6: Summary of Monitoring Rounds

Location Ref.	Number of Rounds (Date of Monitoring/Sampling)	Monitoring Details	Notes
SBHQ06RC	6no . (31 January 2008, 26 February 2008, 7 March 2008, 20 March 2008, 8 April 2008 and 18 April 2008)	Groundwater levels	-

6.6 Laboratory Chemical Testing

6.6.1 A summary of the contamination results from the previous Site investigations is shown in Table 7 and Table 8.

Table 7: Summary of Previous Investigation Sampling – Intrusive Exploratory Locations

Site Investigation Date	No. of Soil Samples	No. of Leachate Samples	No. of Water Samples	Suites of Testing
2008	1	0	0	Heavy metals, pH, cyanide, phenol, MTBE, BTEX, GRO, TPH, PAH
2015	0	0	0	-

Site No. of No. of No. of Soil Investigation Leachate Water Suites of Testing **Samples** Samples Samples **Date** Nitrate, nitrite, phosphate, hardness, heavy metals, TPH, DO¹, BOD², 2008 0 0 4 ammoniacal nitrogen, suspended solids, chloride, TON, sulphate, calcium, magnesium Inorganics, PAH, TPH, BTEX 2015 0 1

Table 8: Summary of Previous Investigation Sampling - Surface Water

Notes: ¹ Dissolved Oxygen. ² Biochemical Oxygen Demand

Soil Analysis

- 6.6.2 The following sections summarise the laboratory analytical results for soil samples collected during the 2008 intrusive investigation phases. The available data has been tabulated and is presented in Appendix 2 and supporting laboratory certificates are available in the relevant original ground investigation reports (see Table 2).
- 6.6.3 The available soil data comprises one sample from the Made Ground from STPQ06.
- 6.6.4 The analytical soil data for the off site borehole BH568 have not been considered within the current report, given it lies outside the Site boundary. The analytical data has been considered within the overarching Land Contamination Assessment Report instead.

Soil Leaching Analysis

6.6.5 No soil leachate analysis was undertaken during the previous ground investigations.

Groundwater Analysis

6.6.6 No groundwater data is available for the borehole installed on site during the previous ground investigations.

Surface Water Analysis

6.6.7 The following sections summarise the laboratory analytical results for surface water samples collected during the various monitoring undertaken. The available data has been tabulated and is presented in Appendix 3 with supporting laboratory certificates available in the relevant original reports.

Table 9: Summary of Analytical Surface Water Data

Surface	Number of Water Analysis per Analytical Suite (Number of Locations) – 2015 data / All Gl data									
Water System	Metals & Inorganics	Water Quality Parameters	Polycyclic Aromatic Hydrocarbons	Total Petroleum Hydrocarbon	ВТЕХ					
Pratt Reen North	1 (2) / 5 (2)	1 (2) / 5 (2)	1 (1) / 1 (1)	1 (2) / 5 (2)	1 (1) / 1 (1)					

6.7 Gap Analysis of Available Data

6.7.1 The investigation data available for the Site is limited. In particular, the available information relates to two 2008 intrusive locations with only one sample of the Made Ground analysed.

7 Ground Conditions

7.1 Geology

- 7.1.1 The exploratory borehole logs for available locations excavated on or in close proximity to the Site are provided in Appendix 1. The observed geological sequence is consistent with that discussed in the 2014 PSSR report and is summarised below.
- 7.1.2 The conceptual site model within the 2014 PSSR report has been updated in light of the 2015 information and is included within Figure 2.

Made Ground

- **7.1.3** Made Ground was encountered in all exploratory locations with thicknesses ranging between 0.4 and 0.9 m as summarised in Table 10.
- **7.1.4** Made Ground is commonly present as a coarse material comprising gravel of concrete, brick, ash and clinker.
- **7.1.5** Borehole BH567, was located over the existing M4 embankment refused within tarmacadam at 0.4 bGL.
- 7.1.6 A nearby off site borehole (BH568, 2015) also sunk at the level of the existing highway, some 5 m south of the Site proved the embankment to include Made Ground, some 13.3 m (basal depth at 5.45 mAOD) in thickness overlying bedrock of the Mercia Mudstone. The Made Ground was identified to include predominantly limestone gravel and boulders with layers of clay. No extraneous material was recorded.

Superficial Deposits

- 7.1.7 Beneath the Made Ground generally soft brown becoming firm red brown sandy clay was encountered with thicknesses ranging from 3.6 m to 5.3 m (3.27 to >4.6 mAOD).
- **7.1.8** Below this in SBHQ06RC, very dense sands were encountered (with no recovery) to 8 mbGL (1.27 mAOD).
- 7.1.9 These are identified as Head Deposits within the borehole records. Considering the published geological data, soil description, recorded strength and correlation with the off site 2015 borehole information; it is considered that the upper soft clay material (2.4 to 3 mbGL) represents the Tidal Flat Deposits. Beneath, both SBQ06RC and STPQ06 weathered Mercia Mudstone was encountered.

Solid Geology

- **7.1.10** As detailed above Mercia Mudstone is considered to have been encountered below 5.97 mAOD.
- **7.1.11** The nearby off site borehole BH568 identified the Mercia Mudstone below 5.45 mAOD and comprised a sequence of mudstone, limestone and sand.
- **7.1.12** Both on site and off site data on the depth of the rockhead correlate well.

Geological Sequence Summary

- **7.1.13** The general geological sequence identified during the Site investigation is summarised in Table 10.
- **7.1.14** On the basis of BH568 findings, it is noted that the existing embankment has been constructed directly over the rockhead with the Tidal Flat Deposits and weathered Mercia Mudstone removed.

Table 10: Summary of Geological Sequence

Unit	Description	Thickness Range (m)	Basal Depth (mAOD)
Made Ground	Gravel including ash, clinker, brick and concrete	>0.4 to 0.9	8.21 to 8.57
Superficial Deposits (Tidal Flat Deposit)	Soft - brown sandy clay	1.5 to 2.6	5.97 to 6.71
Mercia Mudstone Group - weathered	Firm to stiff reddish brown clay with sand bands	>2.1 to 4.7	3.3 to 5.45*
Mercia Mudstone Group - bedrock	Sequence of mudstone, limestone and sand (based on nearby off site borehole)	12.9*	- 7.45*
Mercia Mudstone Marginal Facies	Breccia (based on nearby off site borehole)	>0.3*	> - 7.75*

Note: *Based on off site borehole information

7.1.15 The conceptual site model included within the 2014 PSSR report has been revised in light of the 2015 information and is presented within Figure 2.

7.2 Visual and Olfactory Evidence of Contamination

7.2.1 A summary of visual and olfactory evidence of contamination encountered during the intrusive investigations is presented in Table 11.

Table 11: Visual and Olfactory Evidence of Contamination Summary

Location ID	Depth (mbGL)	Strata	Evidence of Potential Contamination			
All locations	GL to >0.4-0.9	Made Ground	Ash, clinker, tarmacadam, concrete and brick			
STPQ06	0.9 to 1.1	Tidal Flat Deposit	Grey staining			

Note: * geological terminology altered to the one referred to in the borehole record.

- **7.2.2** No visual or olfactory evidence of hydrocarbon contamination was identified during the limited trial pitting and drilling undertaken on site. The PID meter recorded zero levels, indicating that no volatiles were present.
- **7.2.3** Full details and observations noted during the drilling and trial pitting are presented on the exploratory hole logs attached in Appendix 1.

7.3 Gas Monitoring

7.3.1 No gas monitoring data is available for the Site from the previous ground investigations.

7.4 Groundwater

Groundwater Encountered During Investigation

7.4.1 Groundwater strikes were encountered during the advancement of borehole SBHQ06RC as detailed on the geological log provided in Appendix 1. This is summarised in Table 12.

Table 12: Summary of Groundwater and Leachate Water Level Data

Location	Strike Depth (mbGL)	Geological Formation	Level after 20 minutes (mbGL)	Comments
	4.4	Mercia Mudstone*	3.41	-
SBHQ06RC	-	-	-	Water level recorded at 5 m bGL when borehole taken into the top of the sand layer of the Mercia Mudstone (7 m bGL)
	-	-	-	Water level recorded at 2.65 m bGL when borehole finished at a depth of 8 m bGL within Mercia Mudstone

Note: * geological terminology altered to the one referred to in the borehole record.

7.4.2 Groundwater was not recorded in the other boreholes or trial pits referenced.

Groundwater Level Data Set

7.4.3 The groundwater level data available for the Site is summarised in Table 13.

Table 13: Summary of Groundwater Level Data

Location	Installation ^{#1}	Depth of Response Zone (mbGL) and Geological Formation	No. Measurements	Minimum Depth (mbGL)	Maximum Depth (mbGL)	Comments
SBHQ06RC	19 mm	7.1 – 8 m (Mercia Mudstone)	6	3.89	6.63	-

Notes: #1 S denotes a shallow installation and D denotes deep installation. *Geological terminology altered to the one referred to in the borehole record.

Groundwater Summary

7.4.4 The groundwater monitoring of the borehole on site has reported a groundwater body within the Mercia Mudstones at a level of between 3.9 and 6.6 mbGL. The relatively high variability is considered to be representative of seasonal variation, although some marginal tidal influence cannot be discounted.

8 Contamination Assessment

8.1 Introduction

- **8.1.1** The following sections provide details of the assessment of land contamination at the Site.
- 8.1.2 The outline Conceptual Site Model (CSM) presented within the 2014 PSSR has been reviewed and updated based on data from the Supplementary Ground Investigation (Geotechnical Engineering, 2015) and the Scheme. The main amendments to the 2014 PSSR model are summarised as follows:
 - Alteration to the ground and groundwater model.
 - New ditch considered as a new pathway.
 - Update of the source-pathway-receptor linkages taking account of above and more detailed assessments.

8.2 Preliminary Risk Assessments

Potential Sources

- **8.2.1** The Site was used as railway sidings between 1920 and the late 1980s and therefore subsurface contamination with contaminants typical to railway land can be expected. In particular these can include fuel oils, lubricating oils, and PAHs.
- **8.2.2** A limited thickness of Made Ground containing ash and clinker was encountered in all investigated locations.
- 8.2.3 A low embankment was noted to run along the western Site area. The nature of the fill materials is unknown.
- **8.2.4** The existing M4 embankment is an approximate 10 m high feature and comprises imported gravel, boulders and clays, apparently of reworked natural material. This is not considered a significant potential contamination source.

Potential Receptors

8.2.5 Receptors during the construction and the operational stages of the Scheme have been considered:

Construction

- Construction workers during Site development works.
- Adjacent general public/workers (users of the Severn Junction Tunnel Yard).
- Groundwater within the Mercia Mudstone.

 Nearby surface waters including the reens and existing surface water ditches within the Site and bordering the surrounding fields. This land drainage may be connected with the Gwent Levels SSSI wider network of reens and ditches, located south of the new section of motorway.

Operational

- General public end users and adjacent general public/workers (users of the Severn Junction Tunnel Yard).
- Maintenance workers.
- Groundwater within the Mercia Mudstone.
- Surface water, particularly nearby Vurlong Reen. If a new drainage ditch is created through the existing Made Ground a new pathway to surface waters could exist.

Potential Pathways

- **8.2.6** Pathways during the construction and the operational stages of the Scheme have been considered:
 - Dermal contact, ingestion, inhalation pathways of potentially contaminated soils possible during construction and maintenance works.
 - Dermal contact, ingestion, inhalation pathways, all dust related, possible to for general public end users and adjacent general public/workers.
 - Leaching of contaminants from the Made Ground to groundwater.
 - Surface water run-off into existing/new drainage system.

8.3 Risk Evaluation

- 8.3.1 Source-pathway-receptor linkages were considered in the 2014 PSSR using the historical data available up to 2008. With review of the new data described herein, the risk evaluation has been reconsidered and includes the following:
 - The Site has been subject to a range of potential contaminating uses associated with use as a railway sidings/yard.
 - Made Ground shown to be of limited thickness.
 - Proposed embankment widening and overlying hardstanding (carriageway) is
 to be constructed at the Site which is to cover most of the motorway corridor
 reducing pathways from any contamination in shallow soils left in situ to
 motorway users and maintenance workers.
 - Made Ground to be removed within the footprint of the embankment widening. Made Ground may be left in place outside the embankment and is likely to extend beyond the land take to facilitate the Scheme.
 - Cohesive superficial deposits with low permeability overly a Secondary Aquifer associated with the River Terrace Deposits and Mercia Mudstone Group in the centre of the Site.

- Perched groundwater within the Tidal Flat Deposits, if present, is not considered a resource.
- Risk of ground gas emissions from the Made Ground is considered negligible given its small thickness and composition. Risk associated with ground gas is not considered further in the Conceptual Site Model.
- Motorway users will be within an open environment with no proposed structure or other confined spaces.

8.4 Human Health Risk Assessment

- 8.4.1 The rationale and approach for the screening assessment is detailed in the Land Contamination Assessment Report (Appendix 11.1 of the ES) and the soil chemical analysis results are presented in Appendix 2.
- **8.4.2** No exceedances of the relevant criteria were identified.
- **8.4.3** Presence of TPH is recorded however speciated data does not exceed the screening criteria.

8.5 Controlled Waters Screening Assessment

- 8.5.1 The rationale and approach for the screening assessment is detailed in the Land Contamination Assessment Report (Appendix 11.1 of the ES). No groundwater or leachate analyses are available in relation to the Site. All exceedances to the relevant generic criteria for surface waters are summarised in Table 14.
- Where EQS is dependent on water hardness, i.e. some heavy metals, the hardness of the surface water receptor should normally be used. The Baseline Water Environment Report (Appendix 16.2 of the ES) indicates surface water to be generally moderately hard with hardness concentrations within a range of 100 to 150 mg/l as calcium carbonate. Therefore EQSs within this water hardness range have been used for screening purposes.

Groundwater

8.5.3 No groundwater analytical data is available for the Site from the previous ground investigations.

Leachate

8.5.4 No leachate analytical data is available for the Site from the previous ground investigations.

Surface Water

8.5.5 Six surface water samples have been taken and analysed from the Pratt Reen

located south of the Site. A summary of the exceedances to selected screening criteria are shown in Table 14 below.

Table 14: Summary Surface Water Exceedances

Parameter	Unit	No. Analyses	No. Analyses Above LOD	Min. Conc.	Max. Conc.	Location & Round with Max. Conc.	EQS	No. Analyses Exceeding EQS	DWS	No. Analyses Exceeding DWS	CCW Trigger Level	No. Analyses Exceeding CCW Trigger Level
Lead	μg/l	5	2	0.147	6	E3 / R20	1.2	1	10	0	250	0
Cadmium	μg/l	4	3	0.6	0.9	E3 / R20	0.15	3	5	0	5	0
BOD	mg/l	5	2	2	7	E3 / R20	5	1	-	-	18	0
Nitrate as N	mg/l	4	2	0.5	1.5	E2 / R20	-	-	50	0	1	1
Nitrate as NO ₃	mg/l	5	3	1.3	6.64	E2 / R20	-	-	50	0	1	3
Orthophosp hate	mg/l	4	2	0.1	1.2	E3 / R20	-	-	-	-	1	1
Dissolved Oxygen	%	4	4	40.4	80	E2 / R20	60	3	-	-	-	-

- 8.5.6 Water quality within Pratt Reen North is generally observed to be good with only a small number of exceedances for some parameters above their respective EQS. Multiple exceedances were recorded for cadmium (total) and a single exceedance for lead was recorded at location R20.
- **8.5.7** Exceedances were recorded for nitrate (NO₃) above the CCW Trigger Levels and also of phosphorus.
- 8.5.8 Whilst BTEX and TPH concentrations were recorded below laboratory limit of detection for the 2015 data, concentrations of long chain organics have been identified on one of the four historical rounds for Pratt Reen North. Given the presence of similar heavy range TPH within the Made Ground, a possible linkage may be present between the soil and water quality within the reen. It is noted however, that the sampling point and indeed the Pratt Reen are located 800 m from the land take within the Site. Whilst there is no clear and direct hydraulic continuity between the Scheme land take within the Site and the receptor, some possible mobility of organic contamination is identified which may also impact nearer surface water receptors. Additional surface water quality data and near surface soil data would be required to confirm contaminant linkages.
- 8.5.9 The results are presented in the Baseline Water Environment Report (Appendix 16.2 of the ES).

8.6 Summary

- **8.6.1** The Made Ground at the Site has detected levels of PAH and TPH but remain below the relevant screening criteria.
- **8.6.2** The leachability of contaminants within the Made Ground has not been identified.
- 8.6.3 No groundwater monitoring on site or within the wider Severn Junction Tunnel Yard land use has been undertaken and therefore it is not known whether the Made Ground at the Site has affected the underlying groundwater.
- **8.6.4** Whilst the surface water quality of Pratt Reen is seen to be in keeping with the baseline seen in the area of Newport, a possible impact from the high TPH contaminants seen within the Made Ground is identified.

9 Refined Conceptual Site Model

- **9.1.1** The incorporation of data from the 2015 Supplementary Ground Investigation has enabled the original CSM presented in the 2014 PSSR to be updated. The assessment is based on the Scheme during its construction and operational phases.
- 9.1.2 A CSM representing general ground conditions, overall layout of the new section of motorway and relevant source-pathway-receptors (each of which having a specific alpha-numerical symbol attached) are presented in Figure 2 and is described in Table 15.

Table 15: Conceptual Site Model

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
Made Ground	Construction					
containing ash, clinker and/or slag incl. the embankment running across the western Site area. Contamination associated with railway land.	Construction	Dermal contact (1)	Likely	Low	Low	Construction workers will possibly be
	workers (B)	Ingestion (2)	Likely	Low	Low	exposed to Made Ground materials during
		Inhalation of dust (3)	Likely	Low	Low	Site construction works; however exposure duration will be short term only. Prior to construction, a specific risk assessment will be required in line with CDM and health and safety guidance. This will enable safe methods of work and appropriate levels of Personal Protective Equipment (PPE) to be put in place. As such all risks will be duly considered and suitably mitigated. Current data set does not identify exceedances to the screening criteria although elevated organic contamination is present. Data is limited to one soil sample of the 2008 investigation. Dust suppression measures are recommended during construction works. Data is based on limited information. Further investigations are required to delineate any potential contamination and confirm the risks and soil reuse potential.
	Off site users – Severn Tunnel	Dermal contact - dust(1)	Likely	Low	Low	The current data set does not identify exceedances to the screening criteria but is
	Junction Yard (C)	Ingestion - dust (2)	Likely	Low	Low	considered to be limited (one soil sample).
		Inhalation of dust (3)	Likely	Low	Low	Data based on limited information. Further investigations are required to delineate any potential contamination and confirm the risks and soil reuse potential. Dust suppression measures are recommended during construction works.

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
Source	within granular superficial deposits (Da)					during the widening earthworks. In the areas left in place, thickness is anticipated to be limited. Existing 3 m Tidal Flat Deposit to be removed as part of the construction. No recorded perched water within the Made Ground or Tidal Flat Deposits. Absence of leachate data. The provision and implementation of a suitable verification sampling inspection strategy during construction to confirm risks is recommended.
	Surface water (land drainage) (E)	Leaching/migration (4)	Low	Moderate	Moderate to low	The quality of perched groundwater may become affected by contamination during the construction works, particularly in the area excavation (new drains and new embankment). Leachate data not available. Available surface water data identify possible soil—water linkage for TPH contaminant. Data based on limited information. Further investigations are required to delineate any potential contamination and confirm the risks and soil reuse potential.
		Surface water run-off (5)	Low	Low	Very low	Surface water run-off may further deteriorate the quality of surface water. Construction process to adopt surface water control and management.
	Operational					
	Maintenance	Dermal contact (1)	Low	Low	Very low	Maintenance workers may be exposed to
	workers (B)	Ingestion (2)	Low	Low	Very low	Made Ground materials outside the footprint
		Inhalation of dust (3)	Low	Low	Very low	of the embankment (outside the Scheme area); however exposure duration will be short term only. Areas outside the motorway hardstanding are likely to receive topsoil cover and

Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
Gource						vegetation establishment, reducing potential of exposure. Data based on limited information. Further investigations are required to delineate any potential contamination and confirm the risks and soil reuse potential.
	Future motorway users (A) and	Dermal contact - dust(1)	Low	Low	Very low	Motorway users may be exposed to Made Ground materials outside the footprint of the
	adjacent off site	Ingestion - dust (2)	Low	Low	Very low	embankment (outside the Scheme area);
	users (C)	Inhalation of dust (3)	Low	Low	Very low	however exposure duration will be short term only. Areas outside the motorway hardstanding are likely to receive topsoil cover and vegetation establishment, reducing potential of exposure. Current dataset does not identify exceedances to the screening criteria but is considered to be limited (one soil sample). Data based on limited information. Further investigations are required to delineate any potential contamination and confirm the risks and soil reuse potential.
	Groundwater within the Mercia Mudstone (Da)	Leaching of contaminants as a result of groundwater infiltration (4)	Low	Moderate	Moderate to low	Made Ground containing ash/clinker/slag and contaminants related to railway land may be leaching contaminants as a result of groundwater infiltration; however the rate of contaminants downward migration is likely to be limited due to low permeability of the head deposits. Soil and soil leachate quality testing is recommended to confirm the risk. Made Ground is to be removed beneath the footprint of the embankment.
	Surface water (land drainage) (E)	Saturated flow within perched groundwater (4)	Low	Low	Low	Perched (shallow) groundwater may be intercepted by the land drainage. Hardstanding will reduce infiltration and thus reduce leaching potential.

10 Conclusions and Recommendations

10.1 Conclusions

- 10.1.1 Ground investigations have been undertaken that enable the Site to be assessed for the risks of contamination on the Scheme including human health and controlled waters.
- 10.1.2 The generic risk assessment has identified that low risks to human health and low to moderate risks to controlled waters could exist. Elevated TPH concentrations seen in the Made Ground and in the Pratt Reen may indicate a possible contaminant linkage.
- **10.1.3** Normal construction control measures will be required to facilitate the construction and ongoing operation of the Scheme.
- 10.1.4 During the construction phase, specific mitigation measures will be required to prevent inhalation pathways of dust to the general public off site and construction workers. A suitable water management strategy will also be required to prevent impact to surface waters from run-offs.
- **10.1.5** Materials are considered likely to be suitable for reuse subject to provision of reuse criteria under a Materials Management Plan.

10.2 Recommendations

- 10.2.1 Given the identified gap in the data (limited Site coverage and existing data related to the 2008 investigation) supplementary ground investigation works is required to verify the risk level identified in this report. The investigation will target the potential risks to controlled water from leaching contaminants. Upon completion of the ground investigation this report shall be reviewed and updated accordingly once the findings of the additional investigation are made available.
- 10.2.2 Upon review and assessment of the additional ground investigation information, any contamination identified that could cause an unacceptable risk to the identified receptors will require appropriate remedial mitigation measures to be implemented. These measures would be identified within a remediation strategy for the Scheme. A remediation strategy should be developed for this Site that includes the following:
 - Addressing potential human health and controlled waters risk identified by the proposed additional ground investigation.
 - Dealing with unexpected contamination.
 - Verification sampling to confirm suitability of soils for reuse.

- Control measures (over and above good practise construction management) to prevent risks to construction workers and the general public during construction.
- Verification of material used as topsoil.
- **10.2.3** The remediation strategy should include a remediation options appraisal, remediation implementation plan and remediation verification plan.
- 10.2.4 The remediation strategy should be supported by a Scheme wide Materials Management Plan prepared in accordance with CL:AIRE Code of Practice (CL:AIRE, 2011).

11 References

Bactec (2014) Explosive Ordnance Threat Assessment in respect of M4 Corridor around Newport for Hyder Consulting (UK) Limited, 5750TA

CL:AIRE (2011) Definition of Waste. Development Industry Code of Practice, Version 2, March 2011, ISBN 978-1-905046-23-2

Environment Agency (2001) Piling and Penetrative Ground Improvement Methods on Land Affected by Contamination: Guidance on Pollution Prevention. NC/99/73

Environment Agency (2002) Piling into contaminated sites. National Groundwater and Contaminated Land Centre, February 2002

Geotechnical Engineering (2015) M4 Corridor Around Newport, Factual Report on Ground Investigation, 30238

Highways Agency (2008) Design Manual for Roads and Bridges. Vol. 4. Geotechnics and Drainage. Section 1. Earthworks; Part 2. HD22/08. Managing Geotechnical Risk.

Ove Arup & Partners (2014) M4 Corridor Around Newport, Preliminary Sources Study Report, 14/9197

Titan Environmental Surveys Ltd (2008) New M4 Magor to Castleton Baseline Surface Water Quality Final Report for Arup, Report Number HS0442/F1/2

Glossary

BF Blast Furnace

BGS British Geological Survey

BOD Biochemical Oxygen Demand

BOS Basic Oxygen Slag

BTEX Benzene, Toluene, Ethylbenzene and Xylene

CAT Cable Avoidance Tool

CDM Construction Design Management

CH₄ Methane

CLEA Contaminated Land Exposure Assessment

CO₂ Carbon Dioxide

CO Carbon Monoxide

COD Chemical Oxygen Demand

CSM Conceptual Site Model

DMRB Design Manual for Roads and Bridges

DO Dissolved Oxygen

DQRA Detailed Quantitative Risk Assessment

DWS Drinking Water Standard

EC Electrical Conductivity

EIA Environmental Impact Assessment

ES Environmental Statement

ESG Environmental Scientifics Group

EQS Environmental Quality Standard

FTIR Fourier Transform Infrared (spectroscopy)

GAC Generic Assessment Criteria

GDR Geotechnical Design Report

GIR Ground Investigation Report

GRO Gasoline Range Organics

LEL Lower Explosive Limit

LOD Limit of Detection

mAOD Metres Above Ordnance Datum

mb Millibars

mbGL Metres below Ground Level

MTBE Methyl Tert-butyl Ether

NRW Natural Resources Wales

ORP Oxidation Reduction Potential

O₂ Oxygen

OS Ordnance Survey

PAH Polycyclic Aromatic Hydrocarbon

PCB Polychlorinated Biphenyl

PCSM Preliminary Conceptual Site Model

PID Photo Ionisation Detector

PPE Personnel Protection Equipment

SGVs Soil Guideline Values

SSAC Site Specific Assessment Criteria

SSSI Site of Special Scientific Interest

SVOCs Semi-Volatile Organic Compounds

TOC Total Organic Carbon

TPH Total Petroleum Hydrocarbon

TPH CWG Total Petroleum Hydrocarbon Criteria Working Group

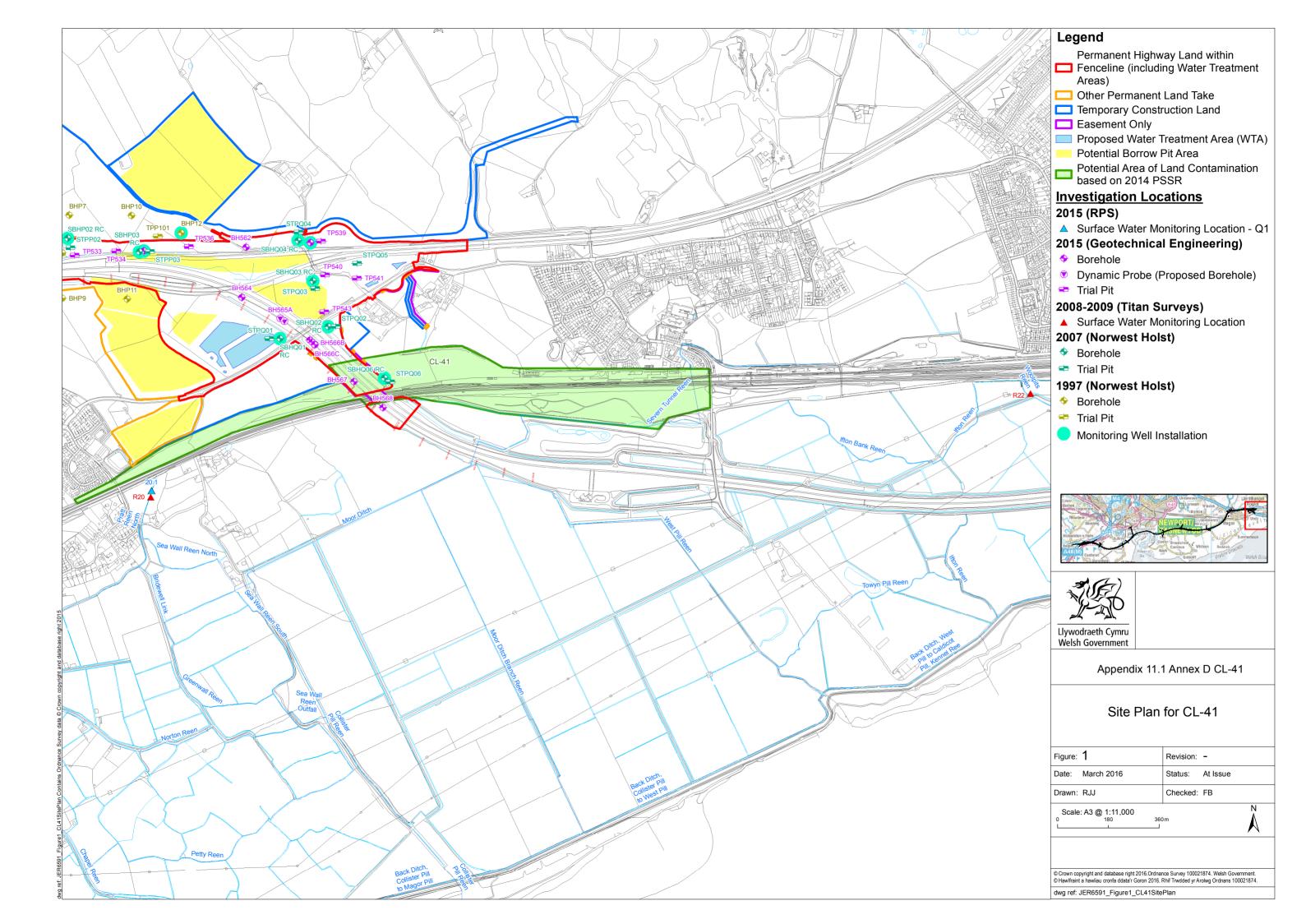
UKAS United Kingdom Accreditation Service

VOCs Volatile Organic Compounds

WFD Water Framework Directive

UXO Unexploded Ordnance Survey

Figures



Legend Tidal Flat Deposits - TFD Existing Embankment CL- 41 Severn Tunnel Junction Yard Potential Receptors Humans On-Site (M4 User) Humans On-Site (Construction/Maintenance) Humans Off-Site (Severn Tunnel Junction Yard Users) Groundwater (Secondary B Aquifer) Surface Water Potential Pathways Severn Tunnel Junction Yard Existing M4 and Proposed Widening Potential Sources of Contamination Possible contamination present on site associated with: On-Site Potential for contamination to be present on site associated with: Made Ground of the railway land Approximately Up to 0.9m **Existing** 10m in Height Proposed Thickness Drainage Drainage Approximately 3.0m Thickness Maximum Minimum Appendix 11.1 Annex D CL-41 Conceptual Site Model for CL-41 Figure: 2 Revision: -Date: March 2016 Status: At Issue Drawn: RJJ Checked: FB Not to Scale Ground conditions based on available information dwg ref:JER6591_Figure2_CL41ConceptualSiteModel

Appendices

A1 Appendix 1

Exploratory Records



Norwest Holst Soil Engineering Ltd. **BOREHOLE LOG - ROTARY**

Hole ID. SBHQ06 RC Header

Coordinates Contract No. F15056 Method **Rotary Coring** 344967.17 E

New M4 - Second Preliminary GroundDrilling Rig Project Site Master Investigation ВВ Driller Ground Level 9.27m AOD

187551.69 N

SPT DETAILS

DH Orientation Client Transport Wales, Welsh Assembly Logged by Vertical Government Core barrel PWF Date Started 04/12/2007

Consultant Ove Arup & Partners Ltd Core bit TC Date Completed 05/12/2007

	PROGRESS						DRILLING DETAILS						
Date	Time	Hole depth	Casing depth	Water depth	Remarks	From depth	To depth	Flush type	Flush return	Core diameter			
04/12/2007	1730	7.00	4.50	5.00	End of Shift	0.00	5.00	Air/Mist	100%	0.00*			
05/12/2007	0730	7.00	4.50	2.20	Start of Shift	5.00	8.00	Air/Mist	100%	92.0			
05/12/2007	1730	8.00	7.00	2.65	End of Hole								

	CAS	SING					1	WATER STR	IKES		
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
121	8.00	121	7.00	04/12/2007	1245	4.40	3.41	20	Medium	0.00	NS

1.Rotary Openhole drilling from GL to 5.00m. 2.Rotary Coring from 5.00m to 8.00m.	Depth	Туре	Incremental blow count/penetration
 2. Rotary coring from 5.00m. 3. Rotary coring terminated at 8.00m due to blowing sands. 4.19mm piezometer installed tip at 7.35m, with response zone from 7.10m to 8.00m. 5.0.00* indicates openhole drilling. 	1.00 2.00 3.00 4.00 5.00	S S	N=4 (1,1,1,1,1) N=6 (1,1,1,1,2,2) N=11 (1,2,2,3,3,3) N=34 (3,3,5,7,10,12) 53/300mm (20,5,12,11,16,14)

5.0.00 indicates opennole drilling.	4.00 5.00 6.00 7.00	N=34 (3,3,5,7,10,12) 53/300mm (20,5,12,11,16,14) 100/70mm (25,100) 102/110mm (1,1,2,100)	0.00 4.50 4.50 4.50	DRY 4.10 4.80 5.00	

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes.

GENERAL NOTES

Form	ARIAL ROTARY HEADER
Version	3.06
Revised	17/12/2007

Water Depth

DRY

DRY

DRY

Casing 0.00

0.00

0.00

NORWEST •

Norwest Holst Soil Engineering Ltd. BOREHOLE LOG - ROTARY

Hole ID.
SBHQ06 RC
Sheet 1 of 1

F15056 Coordinates Contract No. Method **Rotary Coring** 344967.17 E New M4 - Second Preliminary GrourDirilling Rig Project Site Master 187551.69 N Investigation ВВ **Ground Level** 9.27m AOD DH Orientation Logged by Vertical Client Transport Wales, Welsh Assembly PWF Core barrel Date Started 04/12/2007 Government Ove Arup & Partners Ltd Consultant Core bit TC Date Completed 05/12/2007

Description of Strata	Legend	Drilled Length		Coring and Sampling	TCR	SCR	RQD	SPT N & depth	Inst
MADE GROUND: Topsoil. (Driller's description)		0.10	- 9.17						- [3]
MADE GROUND: Black gravelly ash/clinker. (Driller's description)			- - -						
Soft brown silty CLAY. (Driller's description)		0.70	- 8.57 -						
			- -					1.00 1.45 S4	
	E-E-E-								3
			-						
	<u> </u>		-					2.00 2.45 S6	
								30	
	<u> </u>								3
	EEE		-					3.00 3.45	4
		2.20	- 507					3.00 3.45 S11	3
Firm red brown silty CLAY. (Driller's description)		3.30	- 5.97 -						
									3
Firm to stiff red brown mottled green grey sandy CLAY.		4.00	- - 5.27					4.00 4.45 S34	
			-						
			-						-
		5.00	- - - 4.27					5.00 5.43	3
Stiff to very stiff reddish brown locally mottled greenish grey locally grey very sandy CLAY. Gravel is angular fine of mudstone. (Head Deposits?)		0.00						S53/300mm	
from 5.57m to 6.00m assumed zone of core loss			-	5.00 6.00	57	0	0		3
		6.00	- - - 3.27					6.00 6.13	3
No recovery. Very dense light yellowish brown fine SAND. (Driller's description)		0.00	- 0.27					S100/70mm	3
			-	6.00 7.00		NA	NA		
			-						
No recovery. Very dense light reddish brown coarse SAND.		7.00	- 2.27 -					7.00 7.26 S102/110mm	
(Driller's description)			-	7.00 8.00		NA	NA NA		
			-	7.00 8.00		INA	INA		3
		8.00	1.27						
Rotary drilling complete at 8.00 m.									=
			-						=
									=
									- 1
			_						=

NOTES: All depths in metres, all diameters in millimetres. See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL ROTARY LOG
Version	3.09
Revised	17/12/2007



Norwest Holst Soil Engineering Ltd. TRIAL PIT LOG

Hole ID.
STPQ06
Sheet 1 of 1

Contract No. F15056

Method

Machine Excavated

344987.41 E

Project

New M4 - Second Preliminary Ground Investigation

Equipment

Ground Level

Coordinates

187540.28 N 9.11m AOD

Client

Transport Wales, Welsh Assembly

Government Logged by

WA

JCB 3CX

Date Started
Date Completed

29/11/2007 29/11/2007

Consultant

Ove Arup & Partners Ltd

Description of Strata	Legend	Depth Below G.L.	Datum Level	S	Sampling	Remarks
MADE GROUND: Brown slightly clayey gravelly topsoil. Gravel sized fragments are angular to subangular fine to coarse of concrete and brick.		0.15	8.96	D1 B2 ES3	0.20 0.20 0.20	
MADE GROUND: Black ash and angular to subangular fine to coarse gravel sized fragments of clinker and brick.		0.90	- - - 8.21	D4	0.90	-
Soft locally firm brown silty slightly sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse of sandstone, siltstone and limestone. (Head Deposits)from 0.90m to 1.10m some grey pockets/stainingfrom 1.50m becoming sandy		0.90	- 0.21	B5 ES6	0.90 0.90	
				D7	1.90	-
Stiff friable grey sandy CLAY. (Head deposits)		2.40	- 6.71 - - - - -	B8 D9	2.40 2.40	
Firm light orange brown sandy CLAY. (Head Deposits)		3.20	- 5.91 - - - - -	D10 B11	3.20 3.20	
from 3.90m becoming very sandy			- - - -	D12	4.20	
Trial pit complete at 4.50 m.		4.50	- 4.61			
			-			_ _ _

Stability

All faces stable

Shoring

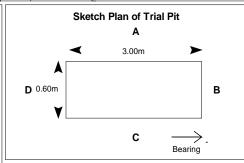
None used

Groundwater

None encountered during excavation

Remarks

1. Trial pit complete at 4.50m.



NOTES: All depths in metres, all soil strengths in kPa. See legend sheet for key to symbols and abbreviations. All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.06
Revised	17/12/2007



Norwest Holst Soil Engineering Ltd.

HAND VANE AND HAND PENETROMETER TESTS

Hole ID.
STPQ06
Data Sheet

Contract No. F15056

New M4 - Second Preliminary Ground

Method

Machine Excavated

Coordinates

344987.41E 187540.28 N

Project New M4 - S

Investigation

Ground Level 9.11m AOD

Transport Wales, Welsh Assembly Government

Logged by WA

Equipment JCB 3CX

Orientation
Date Started

Vertical 29/11/2007

Consultant

Client

Ove Arup & Partners Ltd

Date Completed 29/11/2007

	Hand Vane		Hand Penetrometer					
Depth	Test No	Peak	Remoulded	Depth	Test No	Result		
1.00	01	100.0	60.0					
1.00	02	90.0	50.0					
1.00	03	90.0	50.0					
1.00	03	30.0	30.0					
2.00	04	70.0	20.0					
2.00	05	60.0	0.0					
2.00	06	80.0	10.0					
3.00	07	110.0	40.0					
3.00	08	120.0	100.0					
3.00	09	100.0	40.0					
4.00	10	40.0	0.0					
4.00	11	50.0	0.0					
4.00	12	40.0	10.0					
			1		1			
l l								

NOTES: All depths in metres, all diameters in millimetres, test results in kPa.

Form	ARIAL HAND VANE/PEN
Version	3.03
Revised	18/01/2007

Geotechnical Engineering Limited

TRIAL PIT LOG

End Date



CLIENT WELSH GOVERNMENT

21 March 2015

DU301

1 of 1

SITE M4 CORRIDOR AROUND NEWPORT

Scale 1 : 25

Start Date 21 March 2015 Easting 344859.4

Northing

187540.4

Ground level

20.10mOD

Depth 0.40 m

Sheet

water sample/test depth level description legend record no/type result depth (m) (m) (m) 0.00- 0.40 С MADE GROUND comprising TARMACADAM. (Driller's description). 0.40 19.70 0.40m: Concrete obstruction. Trial pit completed at 0.40m.

Notes

EC

30238 500 M4 NEWPORT MASTER.GPJ TRIALJH.GPJ GEOTECH.GLB 05/06/2015 15:32:59 N/A

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Waterflush rotary core drilled (300mm) 0.00-0.40m.

CASING: Not used.

BACKFILL: On completion, hole backfilled on 31/03/15 with concrete

0.40-0.10m and tarmacadam 0.10-0.00m.

REMARKS: Concrete obstruction encountered at 0.40m. Hole

terminated.

Sketch of Foundation - Not to scale. All dimensions in metres.



CONTRACT CHE

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

A2 Appendix 2

Soil Laboratory Data

M4CAN Soil Analysis Results & Screening Assessment CL-41

CL-41 01/07/2015		
Sample Reference		STPQ06
Specimen Depth (m)		0.2
OD Level (m) Sample Type		8.91 ES
Geology Code	Units	MG
Cluster Code		2008 GI
Location		
Metals	,	
Antimony Arsenic	mg/kg mg/kg	4.4 12
Barium	mg/kg	250
Boron Water Soluble Cadmium	mg/kg mg/kg	<3.5 0.5
Chromium	mg/kg	10
Copper Lead	mg/kg mg/kg	72 92
Mercury	mg/kg	<0.6
Molybdenum Nickel	mg/kg mg/kg	2.6 33
Selenium	mg/kg	<3
Zinc Non Metal Inorganics	mg/kg	180
Cyanide (total)	mg/kg	<1
Cyanide (free) Phenols Monohydric	mg/kg mg/kg	<0.15
Other		
Asbestos Presence Screen Asbestos Identification	None %	NFD
Total Organic Carbon	%	29
pH Value Organics	pH Units	7.64
PCB 105	mg/kg	
PCB 114	mg/kg	
PCB 123 PCB 126	mg/kg mg/kg	
PCB 157 PCB 167	mg/kg	
PCB 169	mg/kg mg/kg	
PCB 189 PCB 77	mg/kg mg/kg	
PCB 77	mg/kg	
Pcb-118 2,3',4,4',5 - Pentach		
Pcb-156 2,3,3,4,4,5 - Hexach Phenols (total)	mg/kg mg/kg	
BTEX		10.01
GRO (C4-C12) MTBE	mg/kg mg/kg	<0.01 <0.01
Benzene	mg/kg	<0.01
Toluene Ethyl benzene	mg/kg mg/kg	<0.01
m & p Xylene	mg/kg	<0.01
o Xylene TPH	mg/kg	<0.01
TPH >C6-C8.	mg/kg	
TPH >C8-C10. TPH >C10-C12.	mg/kg mg/kg	
TPH >C12-C16.	mg/kg	
TPH >C16-C21. TPH >C21-C35.	mg/kg mg/kg	
Aliphatics C5-C6	mg/kg	<10
Aliphatics >C6-C8 Aliphatics >C8-C10	mg/kg mg/kg	<10 <10
Aliphatics >C10-C12	mg/kg	<10
Aliphatics >C12-C16 Aliphatics >C16-C21	mg/kg mg/kg	9000
Aliphatics >C21-C35	mg/kg	50000
Total Aliphatics C5-C35 Aliphatics >C35-44	mg/kg mg/kg	68000
Aromatics >C5-C7	mg/kg	-0.04
Aromatics C6-C7 Aromatics >C7-C8	mg/kg mg/kg	<0.01 <0.01
Aromatics >EC8-EC10	mg/kg	<0.01
Aromatics >EC10-EC12 Aromatics >EC12-EC16	mg/kg mg/kg	<0.01 4.2
Aromatics >EC16-EC21	mg/kg	17 77
Aromatics >EC21-EC35 Total Aromatics C6-C35	mg/kg mg/kg	98
Aromatics >C35-44 TPH (Aliphatics and Aromatic	mg/kg	170
Total Aliphatic	mg/kg mg/kg	170
Total Aromatic	mg/kg	
Total petroleum hydrocarbor PAH	mg/kg	
Acenaphthene	mg/kg	0.076
Acenaphthylene Anthracene	mg/kg mg/kg	0.039 0.35
Benz(a)anthracene	mg/kg	1.7
Benzo(a)pyrene Benzo(b)fluoranthene	mg/kg mg/kg	2
Benzo(ghi)perylene	mg/kg	0.84
	mg/kg mg/kg	1.1 2.6
Benzo(k)fluoranthene Chrysene		0.34
Chrysene Dibenzo(ah)anthracene	mg/kg	
Chrysene Dibenzo(ah)anthracene Fluoranthene	mg/kg	2.8 0.24
Chrysene Dibenzo(ah)anthracene Fluoranthene Fluorene Indeno(123cd)pyrene	mg/kg mg/kg mg/kg	0.24 0.67
Chrysene Dibenzo(ah)anthracene Fluoranthene Fluorene	mg/kg mg/kg mg/kg mg/kg	0.24
Chrysene Dibenzo(ah)anthracene Fluoranthene Fluorene Indeno(123cd)pyrene Naphthalene	mg/kg mg/kg mg/kg	0.24 0.67 0.74

Screening Values and Assessment

Exceeds S4ULs Criteria

Laboratory detection level higher than screening criterion

Notes NFD No Fibres Detected

Chromium VI criteria used Elemental Mercury criteria used

Screening criterion for lead is C4SL in the absence of a S4UL

Geological Formation Legend

MG Made Ground

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	Selected S4ULs Criteria	No. Data Exceedin S4ULs Criteria
1	1	4.4	4.4	STROOG @ 0.2mhCl	ı	
1	1	4.4 12	4.4 12	STPQ06 @ 0.2mbGL STPQ06 @ 0.2mbGL	170	0
1	1	250	250	STPQ06 @ 0.2mbGL	170	· ·
1	0	None > LOD	None > LOD			
1	1	0.5	0.5	STPQ06 @ 0.2mbGL	190	0
1	1	10	10	STPQ06 @ 0.2mbGL	33	0
1	1	72	72	STPQ06 @ 0.2mbGL	44000	0
1	1	92	92	STPQ06 @ 0.2mbGL	1300	0
1	0	None > LOD	None > LOD		30	0
1	1	2.6	2.6	STPQ06 @ 0.2mbGL		
1	1	33	33	STPQ06 @ 0.2mbGL	980	0
1	0	None > LOD	None > LOD		1800	0
1	1	180	180	STPQ06 @ 0.2mbGL	170000	0
					•	
1	0	None > LOD	None > LOD			
0 1	0	None > LOD	None > LOD None > LOD		440	0
1	U	None > LOD	None > LOD		440	U
1	0	None > LOD	None > LOD		I	
0	0	None > LOD	None > LOD			
1	1	29	29	STPQ06 @ 0.2mbGL		
1	1	7.64	7.64	STPQ06 @ 0.2mbGL	6-9	1
_				The Act of Chambon		_
0	0	None > LOD	None > LOD		0.24	0
0	0	None > LOD	None > LOD		0.24	0
0	0	None > LOD	None > LOD		0.24	0
0	0	None > LOD	None > LOD		0.24	0
0	0	None > LOD	None > LOD		0.24	0
0	0	None > LOD	None > LOD		0.24	0
0	0	None > LOD	None > LOD		0.24	0
0	0	None > LOD	None > LOD		0.24	0
0	0	None > LOD	None > LOD		0.24	0
0	0	None > LOD	None > LOD		0.24	0
0	0	None > LOD	None > LOD		0.24	0
0	0	None > LOD	None > LOD		0.24	0
0	0	None > LOD	None > LOD		440	0
1	0	None > LOD				
1	0	None > LOD				
1	0		None > LOD		27	0
1	0		None > LOD		56000	0
1	0	None > LOD	None > LOD		5700	0
1	0	None > LOD	None > LOD		5900	0
1	0	None > LOD	None > LOD		6600	0
0	0	None > LOD	None > LOD		7800	0
0	0	None > LOD	None > LOD		2000	0
0	0	None > LOD	None > LOD		9200	0
0	0	None > LOD	None > LOD		10000	0
0	0	None > LOD	None > LOD		7600	0
0	0	None > LOD	None > LOD		7800	0
1	0	None > LOD	None > LOD		3200	0
1	0	None > LOD	None > LOD		7800	0
1	0	None > LOD	None > LOD		2000	0
1	0	None > LOD	None > LOD		9700	0
1	1	8700	8700	STPQ06 @ 0.2mbGL	25000	0
1	1	9000	9000	STPQ06 @ 0.2mbGL	450000	0
1	1	50000	50000	STPQ06 @ 0.2mbGL	450000	0
1	1	68000	68000	STPQ06 @ 0.2mbGL		
0	0	None > LOD	None > LOD		450000	0
0	0	None > LOD	None > LOD		26000	0
1	0	None > LOD	None > LOD		7800	0
1	0	None > LOD	None > LOD		56000	0
1	0	None > LOD	None > LOD		3500	0
1	0	None > LOD	None > LOD		9200	0
1	1	4.2	4.2	STPQ06 @ 0.2mbGL	10000	0
1	1	17	17	STPQ06 @ 0.2mbGL	7600	0
1	1	77	77	STPQ06 @ 0.2mbGL	7800	0
1	1	98	98	STPQ06 @ 0.2mbGL	·	_
0	0	None > LOD	None > LOD	ome	7800	0
1	1	170	170	STPQ06 @ 0.2mbGL		
0	0	None > LOD	None > LOD		 	
0	0	None > LOD	None > LOD			
0	0	None > LOD	None > LOD			
1	1	0.076	0.076	STDOOR @ 0.2mbCl	20000	0
1	1 1	0.076 0.039	0.076 0.039	STPQ06 @ 0.2mbGL STPQ06 @ 0.2mbGL	29000 29000	0
1	1	0.039	0.039	STPQ06 @ 0.2mbGL	150000	0
1	1	1.7	1.7	STPQ06 @ 0.2mbGL	49	0
1	1	1.7	1.7	STPQ06 @ 0.2mbGL	11	0
1	1	2	2	STPQ06 @ 0.2mbGL	13	0
1	1	0.84	0.84	_	1400	0
1	1	1.1	1.1	STPQ06 @ 0.2mbGL	1400 370	0
				STPQ06 @ 0.2mbGL	ł — — — — — — — — — — — — — — — — — — —	0
1	1	2.6 0.34	2.6 0.34	STPQ06 @ 0.2mbGL	93 1.1	0
				STPQ06 @ 0.2mbGL	1	
1	1	2.8	2.8 0.24	STPQ06 @ 0.2mbGL	6300	0
1	1	0.24 0.67	0.24	STPQ06 @ 0.2mbGL STPQ06 @ 0.2mbGL	20000 150	0
1	1	0.74	0.67	STPQ06 @ 0.2mbGL	190	0
1	1	2.7	2.7	STPQ06 @ 0.2mbGL STPQ06 @ 0.2mbGL	6200	0
1	1	2.7	2.7	STPQ06 @ 0.2mbGL	15000	0
1	1	19	19	STPQ06 @ 0.2mbGL	13000	U
_		19	13	JII QUU & U.ZIIIDUL	1	1

A3 Appendix 3

Surface Water Data

M4CAN Surface Water Sample Analysis & Screening Assessment CL-41 14/07/2015

Monitoring Round / Location		Sc	reening Crite	eria	E1 / R20	E2 / R20	E3 / R20	E4 / R20	Q1 / 20.1
Date Sampled	1				07/12/2007	17/03/2008	18/03/2008	24/09/2008	03/06/201
vate Jampieu	Units	EQS	DWS	ccw	07/12/2007	1770372300	10,03,1330	2-4/03/2000	03/00/201
Metals & Non-Metal Inorganics	/1	ı	ı		107	304	342	420	ı
Hardness Total Arsenic Dissolved	mg/l ug/l	50	10		107	304	342	420	1.28
Calcium Dissolved	ug/l	30	10	300000	31	74	75	102	17.2
Cadmium Dissolved	ug/l	0.15	5	5	31	74	73	102	<0.1
Chromium Dissolved	ug/l	0.13	50		<0.22	<0.22	<0.22	<0.22	0.827
Copper Dissolved	ug/l	10	2000		<0.85	<0.85	<0.85	<0.85	2.49
Lead Dissolved	ug/l	1.2	10	250	<0.22	<0.22	6	<0.22	0.147
Magnesium Dissolved	ug/l				5.7	13	32	34	
Nickel Dissolved	ug/l	4	20	100	<0.15	<0.15	<0.15	<0.15	0.644
Selenium Dissolved	ug/l		10						1.26
Cadmium Total	ug/l	0.15	5	5	0.7	0.6	0.9	<0.5	
Zinc Total	ug/l	75		1000	17	25	21	75	
BOD	mg/l	5		18	2	<1	7	<1	<1
Nitrate as N	mg/l		50	1	0.5	1.5	<0.3	<0.3	
Nitrate as NO3	mg/l		50	1	2.2	6.64	1.3	<0.3	<0.3
Nitrite as N	mg/l	ļ	0.1521739	1	<0.1	<0.1	<0.1	<0.1	
Nitrite as NO2	mg/l	-	0.5	1	4.5	.0.4	.0.0	0.5	<0.05
Nitrogen, Total Oxidised as N	mg/l	1	50	2	1.5	<0.1	<0.1	0.5	
Phospharus (tot unfilt)	mg/l	120		1	<0.1	0.1	1.2	<0.1	07.0
Phosphorus (tot.unfilt)	ug/l	120 400	250	300					87.9 <2
Sulphate Sulphate as SO4	mg/l	400	250	300	10	19	<5	31	<2
Sulphate as 504 Chloride	mg/l mg/l	250	250	300	13	19	21	23	7.4
Ammoniacal Nitrogen as N	mg/l	0.6	230	1	0.06	0.07	0.48	23	0.218
Dissolved Oxygen (Saturation)	%	60		-	58.7	88	54.9	40.4	0.210
Dissolved Oxygen (Saturation) Dissolved Oxygen	mg/l	- 55			6.91	10.48	5.22	4.1	11.7
pH Value	pH units	6-9	6.5-10	6.8-8.5	7.7	7.8	7.8	7.6	11.7
Organics	p								
GRO (C5-C12)	ug/l	Ι			1				<50
MTBE	ug/l								<3
Benzene	ug/l	10	1						<7
Toluene	ug/l	50							<4
Ethyl benzene	ug/l	20							<5
m & p Xylene	ug/l	30							<8
o Xylene	ug/l	30							<3
ТРН									
Aliphatics C5-C6	ug/l								<10
Aliphatics >C6-C8	ug/l								<10
Aliphatics >C8-C10	ug/l								<10
Aliphatics >C10-C12	ug/l								<10
Aliphatics >C12-C16 Aqueous	ug/l	-							<10
Aliphatics >C16-C21 Aqueous	ug/l	-			-				<10
Aliphatics >C21-C35 Aqueous	ug/l	1							<10
Total Aliphatics C12-C35 Aqueous Aromatics > C5-C7	ug/l	 							<10 <10
Aromatics >C5-C7 Aromatics >C7-C8	ug/l ug/l	 			 				<10
Aromatics >C7-C8 Aromatics >EC8-EC10	ug/l								<10
Aromatics >EC10-EC12	ug/I								<10
Aromatics >EC12-EC16 Aqueous	ug/l				1				<10
Aromatics >EC16-EC21 Aqueous	ug/l								<10
Aromatics >EC21-EC35 Aqueous	ug/l								<10
Total Aromatics C12-C35 Aqueous	ug/l								<10
TPH >C6-C8	ug/l				<10	<10	<10	<10	
TPH >C8-C10	ug/l				<10	<10	<10	<10	
TPH >C10-C16	ug/l				<20	<20	<20	<20	
TPH >C16-C24	ug/l				<20	<20	117	<20	
TPH >C24-C40	ug/l	-			223	<50	137	<50	.
TPH >C6-C40	ug/l				223	<50	254	<50	
PAHs								1	-0.015
Acenaphthene	ug/l	1			1				<0.015 <0.011
Acenaphthylene Anthracene	ug/l	0.1							<0.011
Anthracene Benzo(a)anthracene	ug/l ug/l	0.1							<0.015
Benzo(a)pyrene	ug/I	0.00017	0.01		l .				<0.017
Benzo(b)fluoranthene	ug/l	0.00017	0.01		l .				<0.003
Benzo(k)fluoranthene	ug/l	0.017	0.1						<0.023
Benzo(ghi)perylene	ug/l	0.0082	0.1						<0.016
ndeno(1,2,3-cd)pyrene	ug/l		0.1						<0.014
Chrysene	ug/l								<0.013
Dibenzo(a,h)anthracene	ug/l				i e				<0.016
Fluoranthene	ug/l	0.0063							<0.017
Fluorene	ug/l								<0.014
Naphthalene	ug/l	2							<0.1
Phenanthrene	ug/l								<0.022
Pyrene	ug/l								<0.015
Fotal PAHs (USEPA 16)	ug/l								< 0.344
/OCs									
Benzene	ug/l	10	1						<7
Ethylbenzene	ug/l	20							<5
n,p xylenes	ug/l	30							<8
Methyl tert-butyl ether (MTBE)	ug/l								<3
	- //	30						1	<3
O-Xylene Foluene	ug/l	50							<4

Notes

EQS calcium carbonate 200-250mg/l for heavy metals: chromium, copper, lead, nickel and zinc

NDP - No determination possible

Screening Values and Assessment

EQS Environmental Quality Standards
MRV Minimum Reporting values
Exceeds EQS

100 Exceeds DWS
410 Laboratory detection level higher than screening criterion

BOL/ITA

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Round of Maximum Concentration	No. Data Exceeding EQS	No. Data Exceeding DWS	No. Data Exceeding CCW
4	4	420	107	E4 / R20		I	
1	1	1.28	1.28	Q1 / 20.1	0	0	
5	5	102	17.2	E4 / R20			0
1	0	None > LOD	None > LOD		0	0	0
5	1	0.827	0.827	Q1 / 20.1		0	
5	1	2.49	2.49	Q1 / 20.1	0	0	
5 4	2	6 34	0.147	E3 / R20 E4 / R20	1	0	0
5	1	0.644	5.7 0.644	Q1 / 20.1	0	0	0
1	1	1.26	1.26	Q1 / 20.1		0	
4	3	0.9	0.6	E3 / R20	3	0	0
4	4	75	17	E4 / R20	0	0	0
5	2	7	2	E3 / R20	1		0
4	2	1.5	0.5	E2 / R20		0	1
5	3	6.64	1.3	E2 / R20		0	3
1	0	None > LOD	None > LOD None > LOD			0	0
4	2	None > LOD 1.5	0.5	E1 / R20		0	0
4	2	1.2	0.1	E3 / R20		0	1
1	1	87.9	87.9	Q1 / 20.1	0		0
1	0	None > LOD	None > LOD	,	0	0	0
4	3	31	10	E4 / R20	0	0	0
5	5	23	7.4	E4 / R20	0	0	0
4	4	0.48	0.06	E3 / R20	0		0
4	4	88	40.4	E2 / R20	1		
5	5	11.7	4.1	Q1 / 20.1	0	0	0
4	4	7.8	7.6	E2 / R20	0	0	0
1	0	None > LOD	None > LOD				0
1	0	None > LOD	None > LOD				0
1	0	None > LOD	None > LOD		0	0	0
1	0	None > LOD	None > LOD		0		0
1	0	None > LOD	None > LOD		0		0
1	0	None > LOD	None > LOD		0		0
1	0	None > LOD	None > LOD		0		0
1	0	None > LOC	None > LOD	1			0
1	0	None > LOD None > LOD	None > LOD None > LOD				0
1	0	None > LOD	None > LOD				0
1	0	None > LOD	None > LOD				0
1	0	None > LOD	None > LOD				0
1	0	None > LOD	None > LOD				0
1	0	None > LOD	None > LOD				0
1	0	None > LOD	None > LOD				0
1	0	None > LOD None > LOD	None > LOD None > LOD				0
1	0	None > LOD	None > LOD				0
1	0	None > LOD	None > LOD				0
1	0	None > LOD	None > LOD				0
1	0	None > LOD	None > LOD				0
1	0	None > LOD	None > LOD				0
1	0	None > LOD	None > LOD				0
4	0	None > LOD	None > LOD				0
4	0	None > LOD	None > LOD None > LOD				0
4	1	None > LOD 117	117	E3 / R20			0
4	2	223	137	E3 / R20			0
4	2	254	223	E3 / R20			0
1	0	None > LOD	None > LOD				0
11	0	None > LOD	None > LOD				0
1	0	None > LOD None > LOD	None > LOD		0		0
1	0	None > LOD	None > LOD None > LOD		0	0	0
1	0	None > LOD	None > LOD		0	0	0
1	0	None > LOD	None > LOD		0	0	0
1	0	None > LOD	None > LOD		0	0	0
1	0	None > LOD	None > LOD			0	0
1	0	None > LOD	None > LOD				0
1	0	None > LOD	None > LOD				0
1	0	None > LOD	None > LOD		0		0
1	0	None > LOD	None > LOD				0
1	0	None > LOD	None > LOD		0	<u> </u>	0
1	0	None > LOD	None > LOD				0
1	0	None > LOD None > LOD	None > LOD None > LOD				0
1	U	NOTIC > LOD	None > LOD			<u> </u>	U
1	0	None > LOD	None > LOD		0	0	0
1	0	None > LOD	None > LOD		0		0
	0	None > LOD	None > LOD		0		0
1						l	0
1	0	None > LOD	None > LOD				0
	0 0 0	None > LOD None > LOD	None > LOD None > LOD		0		0

A4 Appendix 4

Groundwater Level

Project Name New M4 Preliminary Ground Investigation
Project No. F15056

Engineer Ove Arup & Partners Ltd

Client Transport Wales, Welsh Assembly Government

Groundwater Readings For Installations

Fig no.

01

NOTES: SPIE=Piezometer, SP=Standpipe

For multiple installations, use different Installation IDs.

For piezometers installation depth = tip depth. For standpipes = base of pipe

COMMENTS SBHM01 RC installation extends 0.50m above ground level. - symbol indicates water level is above GL

All groundwater levels are recorded from ground level

	All gro	undwat	er lev	els are recor	ded from	n ground	level					
	Insta	llation Deta	ails				Record	ed Water Lev	/el			
Exploratory Hole ID	Туре	Depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
		m		dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m
SBHC01 RC	SPIE	8.05		30/01/2008	09:50	2.45	25/02/2008	14:34	2.48	07/03/2008	14:25	2.60
SBHD03 CP	SPIE	10.00		30/01/2008	11:01	0.47	25/02/2008	14:52	0.43	07/03/2008	14:05	0.56
SBHD05 RC	SPIE	12.00		31/01/2008	09:00	1.02	25/02/2008	15:35	1.05	07/03/2008	13:50	1.77
SBHD06 RC	SP	15.00		30/01/2008	13:00	1.13	21/02/2008	10:30	1.39	07/03/2008	13:30	1.39
SBHD08 RC	SPIE	29.50		30/01/2008	13:50	1.20	25/02/2008	15:58	2.02	07/03/2008	13:35	1.40
SBHE02RD	SPIE	25.00		31/01/2008	09:25	2.18	25/02/2008	16:20	2.09	07/03/2008	13:10	2.48
SBHE04 RC	SPIE	17.20		31/01/2008	09:15	2.31	25/02/2008	16:11	2.51	07/03/2008	13:20	2.59
SBHF01 RC	SPIE	19.00		31/01/2008	09:40	5.69	25/02/2008	16:32	5.72	07/03/2008	12:50	5.43
SBHF02A CP	SPIE	17.00		01/02/2008	14:40	7.61	25/02/2008	17:13	7.57	07/03/2008	12:30	9.00
SBHF03 RC	SPIE	18.00		31/01/2008	10:35	6.97	26/02/2008	08:55	6.77	07/03/2008	12:15	7.22
SBHH01 RC	SPIE	25.00		31/01/2008	11:15	3.45	26/02/2008	09:39	3.42	07/03/2008	11:28	3.65
SBHH02 RC	SPIE	14.90		31/01/2008	11:10	3.42	26/02/2008	09:20	3.88	07/03/2008	11:35	3.64
SBHH05 RC	SPIE	21.50		31/01/2008	11:30	2.22	26/02/2008	10:01	2.13	07/03/2008	11:05	3.10
SBHH06 CP	SP	12.30		30/01/2008	15:30	3.75	21/02/2008	08:00	3.76	07/03/2008	11:10	3.87
SBHH07A RC	SPIE	24.85		30/01/2008	14:50	1.70	26/02/2008	10:40	1.34	07/03/2008	11:00	1.07
SBHJ01 CP	SP	7.50		01/02/2008	12:20	1.34	21/02/2008	11:45	5.98	06/03/2008	12:28	1.82
SBHJ03 CP	SP	5.20		01/02/2008	08:00	0.54	27/02/2008	16:15	0.70	07/03/2008	10:45	0.68
SBHJ04	SP	13.10		01/02/2008	11:55	6.61	22/02/2008	13::55	6.67	06/03/2008	11:46	6.75
SBHJ05	SP	11.50		01/02/2008	11:10	8.91	22/02/2008	09:00	9.07	06/03/2008	11:23	9.16
SBHJ06 CP	SP	4.10		01/02/2008	11:45	1.31	21/02/2008	15:30	1.32	06/03/2008	10:50	1.33
SBHJ07 CP	SP	10.40		01/02/2008	11:43	1.35	21/02/2008	14:40	1.40	06/03/2008	12:05	1.56
SBHJ08A CP	SP	7.40		01/02/2008	11:35	3.49	21/02/2008	13:05	2.31	06/03/2008	10:57	2.67
SBHJ09 CP	SP	2.20		01/02/2008	11:30	0.65	21/02/2008	12:25	0.85	06/03/2008	11:00	0.90
SBHJ10 CP	SP	10.00		01/02/2008	10:40	2.30	21/02/2008	13:45	2.24	06/03/2008	10:40	2.16
SBHK01 CP	SP	6.80		01/02/2008	10:55	0.70	25/02/2008	10:30	1.00	06/03/2008	14:24	1.06
SBHK02 CP	SP	11.20		01/02/2008	10:50	1.34	25/02/2008	11:20	1.33	06/03/2008	14:18	1.47
SBHK03 CP	SP	5.90		01/02/2008	10:45	0.87	25/02/2008	12:00	0.89	06/03/2008	14:15	1.00
SBHK04 CP	SP	12.20		01/02/2008	10:25	1.45	25/02/2008	12:30	1.60	06/03/2008	12:30	1.60
SBHL02 RC	SPIE	15.20		01/02/2008	10:35	2.27	25/02/2008	12:49	2.31	06/03/2008	14:00	2.42
SBHL03 RC	SPIE	15.00		31/01/2008	16:20	0.61	26/02/2008	11:15	0.51	07/03/2008	10:25	0.66
SBHM01 RC	SPIE	21.00		01/01/1900	08:20	-0.26	26/02/2008	11:30	-0.26	07/03/2008	10:17	0.05
SBHM02 RC	SPIE	20.00		01/02/2008	08:25	0.19	26/02/2008	11:41	0.49	07/03/2008	10:14	0.68
SBHN01A RC	SPIE	14.90		01/02/2008	15:20	8.49	27/02/2008	17:15	12.23	07/03/2008	14:45	13.18
SBHN02 RC	SPIE	20.40		31/01/2008	15:55	3.67	26/02/2008	11:57	4.19	07/03/2008	10:05	4.84
SBHN03 RC	SPIE	15.00		31/01/2008	15:45	1.07	26/02/2008	12:03	1.73	07/03/2008	09:55	2.34
SBHN04 RC	SPIE	10.00		31/01/2008	15:30	9.99	26/02/2008	14:42	DRY	07/03/2008	09:45	DRY
		1			L	1						

S Davis Recorded by: Checked by: I Swain Approved by: I Swain 30/01/08-07/03/08 Date: 16/04/2008 17/04/2008 Date: Date: SI GWR 2.03 07/01/2008 Form No. Revision No. Issue Date



Project Name New M4 Preliminary Ground Investigation
Project No. F15056

Engineer Ove Arup & Partners Ltd

Client Transport Wales, Welsh Assembly
Government

Groundwater Readings
For Installations

Fig no.

NOTES: SPIE=Piezometer, SP=Standpipe

For multiple installations, use different Installation IDs.

For piezometers installation depth = tip depth. For standpipes = base of pipe

COMMENTS

Unable to locate LGBH05 and RBBH08. LGBH06 was blocked All groundwater levels are recorded from ground level

		llation Det		eis are recor		<u> </u>		ed Water Lev	vel			
Exploratory Hole ID	_	Depth		Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
	Туре	m	ID	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m
SBHP01 RC	SPIE	8.00		31/01/2008	14:50	DRY	26/02/2008	14:12	DRY	07/03/2008	09:35	DRY
SBHP02 RC	SPIE	9.80		31/01/2008	13:55	7.20	26/02/2008	13:59	8.09	07/03/2008	09:10	8.25
SBHP03 RC	SPIE	5.00		31/01/2008	13:40	4.09	26/02/2008	13:48	4.76	07/03/2008	09:05	4.78
SBHQ01 RC	SPIE	11.80		31/01/2008	14:20	5.76	26/02/2008	12:46	6.74	07/03/2008	09:30	7.20
SBHQ02 RC	SPIE	6.00		31/01/2008	14:15	4.98	26/02/2008	12:59	5.16	07/03/2008	09:25	5.98
SBHQ03 RC	SPIE	11.00		31/01/2008	13:20	6.04	26/02/2008	13:29	7.22	07/03/2008	08:38	7.59
SBHQ04 RC	SPIE	8.00		31/01/2008	13:05	4.35	26/02/2008	13:36	6.18	07/03/2008	08:55	6.94
SBHQ06 RC	SPIE	7.35		31/01/2008	13:00	3.89	26/02/2008	13:16	4.40	07/03/2008	08:25	4.63
SWSJ08	SP	3.30		01/02/2008	12:30	0.42	21/02/2008	11:45	0.37	06/03/2008	12:35	0.41
SWSJ13	SP	2.50		01/02/2008	12:00	DRY	22/02/2008	13:45	DRY	06/03/2008	11:50	DRY
SWSJ21	SP	6.00		01/02/2008	11:20	3.87	22/02/2008	09:30	5.72	06/03/2008	11:27	6.59
SWSJ23	SP	7.80		01/02/2008	11:22	5.92	22/02/2008	09:55	6.62	06/03/2008	11:30	6.97
SWSJ34	SP	6.00		01/02/2008	11:05	2.52	22/02/2008	10:55	3.33	06/03/2008	11:10	3.08
SWSJ37	SP	5.60		01/02/2008	11:25	0.46	22/02/2008	11:30	0.55	06/03/2008	11:15	0.61
LGBH02	SP	8.88					22/02/2008	14:35	7.50	06/03/2008	11:40	7.52
LGBH03	SP	8.90					22/02/2008	14:21	7.20	06/03/2008	11:44	7.28
LGBH04	SP	10.50					22/02/2008	10:30	8.87	06/03/2008	11:20	9.00
LGBH09	SP	7.00					22/02/2008	12:40	1.13	06/03/2008	10:48	1.56
LGBH10	SP	14.60					27/02/2008	14:30	8.15	06/03/2008	11:12	8.21
LGBH11	SP	11.20					27/02/2008	10:00	7.05	06/03/2008	11:03	7.07
LGBH12	SP	7.05					22/02/2008	13:10	1.40	06/03/2008	10:45	1.40
RBBH07	SP	6.25					27/02/2008	12.15	0.69	06/03/2008	12:20	0.71
RBBH09	SP	7.05					27/02/2008	13:40	1.25	06/03/2008	12:25	1.21
RBBH10	SP	6.85					27/02/2008	13:00	0.68	06/03/2008	12:30	0.82
Recorded by:	S Davis	5	CH	necked by:	I Swain	Ann	roved by:	I Swain	(S-20)		n en en	^

Checked by: I Swain Recorded by: S Davis Approved by: I Swain 30/01/08-07/03/08 Date: 16/04/2008 Date: 17/04/2008 Date: SI GWR 2.03 07/01/2008 Form No. Revision No. Issue Date



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Project No. F15056

Engineer Ove Arup & Partners Ltd

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Government

Groundwater Readings
For Installations

Fig no.

NOTES: SPIE=Piezometer, SP=Standpipe

For multiple installations, use different Installation IDs.

For piezometers installation depth = tip depth. For standpipes = base of pipe

COMMENTS SBHM01 RC installation extends 0.50m above ground level. - symbol indicates water level is above GL

All groundwater levels are recorded from ground level

		llation Det		els are recor	000 11011	. groone		ed Water Lev	/el			
Exploratory Hole ID	Tuna	Depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
	Туре	m	IU	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m
SBHC01 RC	SPIE	8.05		20/03/2008	16:30	2.57	04/04/2008	08:00	2.59	18/04/2008	07:40	2.66
SBHD03 CP	SPIE	10.00		20/03/2008	16:45	0.58	04/04/2008	08:13	0.53	18/04/2008	08:00	0.60
SBHD05 RC	SPIE	12.00		20/03/2008	16:00	1.08	04/04/2008	09:15	1.22	18/04/2008	08:30	1.32
SBHD06 RC	SP	15.00		20/03/2008	17:55	1.20	04/04/2008	09:30	1.33	18/04/2008	08:40	1.44
SBHD08 RC	SPIE	29.50		19/03/2008	18:30	1.28	04/04/2008	10:00	1.39	18/04/2008	08:52	1.52
SBHE02RD	SPIE	25.00		20/03/2008	16:20	2.23	04/04/2008	08:50	2.46	18/04/2008	09:00	2.54
SBHE04 RC	SPIE	17.20		20/03/2008	15:45	2.20	04/04/2008	09:00	1.80	18/04/2008	08:15	1.80
SBHF01 RC	SPIE	19.00		20/03/2008	15:30	5.50	04/04/2008	08:40	5.55	18/04/2008	13:58	5.58
SBHF02A CP	SPIE	17.00		20/03/2008	15:10	5.60	04/04/2008	10:28	5.70	18/04/2008	13:45	5.77
SBHF03 RC	SPIE	18.00		20/03/2008	14:55	7.20	04/04/2008	10:36	7.38	18/04/2008	13:40	7.42
SBHH01 RC	SPIE	25.00		20/03/2008	14:25	3.60	04/04/2008	15:00	3.60	18/04/2008	13:10	3.62
SBHH02 RC	SPIE	14.90		20/03/2008	14:30	4.27	04/04/2008	15:05	3.64	18/04/2008	13:13	3.70
SBHH05 RC	SPIE	21.50		20/03/2008	17:30	2.17	04/04/2008	15:15	2.78	18/04/2008	11:34	2.90
SBHH06 CP	SP	12.30		17/03/2008	15:20	3.88	04/04/2008	15:20	3.89	17/04/2008	14:15	3.90
SBHH07A RC	SPIE	24.85		20/03/2008	13:55	1.33	04/04/2008	15:28	1.92	18/04/2008	11:43	0.88
SBHJ01 CP	SP	7.50		19/03/2008	14:15	1.81	03/04/2008	16:05	1.90	17/04/2008	12:40	1.80
SBHJ03 CP	SP	5.20		19/03/2008	16:40	0.78	03/04/2008	18:25	0.82	17/04/2008	15:55	0.80
SBHJ04	SP	13.10		17/03/2008	13:35	6.64	03/04/2008	18:10	6.74	17/04/2008	13:08	6.80
SBHJ05	SP	11.50		18/03/2008	13:50	9.02	03/04/2008	17:39	9.10	17/04/2008	13:31	9.11
SBHJ06 CP	SP	4.10		17/03/2008	12:55	1.29	03/04/2008	17:43	1.33	17/04/2008	15:05	1.20
SBHJ07 CP	SP	10.40		17/03/2008	10:25	1.59	03/04/2008	17:47	1.50	17/04/2008	13:58	1.47
SBHJ08A CP	SP	7.40		18/03/2008	10:00	2.50	03/04/2008	17:55	2.50	17/04/2008	15:33	2.50
SBHJ09 CP	SP	2.20		18/03/2008	10:25	0.69	03/04/2008	17:58	0.82	17/04/2008	15:22	0.90
SBHJ10 CP	SP	10.00		17/03/2008	09:15	2.10	03/04/2008	17:50	2.00	17/04/2008	13:55	2.00
SBHK01 CP	SP	6.80		19/03/2008	10:45	0.88	03/04/2008	16:40	1.00	17/04/2008	11:40	0.94
SBHK02 CP	SP	11.20		19/03/2008	11:15	1.46	03/04/2008	16:45	1.48	17/04/2008	11:43	1.46
SBHK03 CP	SP	5.90		19/03/2008	11:45	1.04	03/04/2008	16:48	1.07	17/04/2008	11::46	0.98
SBHK04 CP	SP	12.20		19/03/2008	12:15	1.64	03/04/2008	16:52	1.67	17/04/2008	12:05	1.60
SBHL02 RC	SPIE	15.20		19/03/2008	12:50	2.44	03/04/2008	17:00	2.45	17/04/2008	12:00	2.45
SBHL03 RC	SPIE	15.00		20/03/2008	13:25	0.76	08/04/2008	15:40	0.64	18/04/2008	09:50	0.62
SBHM01 RC	SPIE	21.00		20/03/2008	13:05	-0.21	08/04/2008	15:48	-0.45	18/04/2008	11:55	0.01
SBHM02 RC	SPIE	20.00		20/03/2008	13:10	0.61	08/04/2008	15:52	0.61	18/04/2008	11:50	0.61
SBHN01A RC	SPIE	14.90		20/03/2008	12:55	12.14	08/04/2008	16:05	12.58	18/04/2008	12:48	13.27
SBHN02 RC	SPIE	20.40		20/03/2008	12:45	4.26	08/04/2008	16:12	2.64	18/04/2008	12:45	4.85
SBHN03 RC	SPIE	15.00		20/03/2008	12:30	1.60	08/04/2008	16:17	2.07	18/04/2008	12:35	2.37
SBHN04 RC	SPIE	10.00		20/03/2008	12:10	DRY	08/04/2008	16:28	DRY	18/04/2008	10:55	DRY

S Davis Recorded by: Checked by: I Swain Approved by: I Swain 17/03/08-17/04/08 Date: 21/04/2008 21/04/2008 Date: Date: SI GWR 2.03 07/01/2008 Form No. Revision No. Issue Date



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Engineer Ove Arup & Partners Ltd

Client Transport Wales, Welsh Assembly Government

Groundwater Readings
For Installations

Fig no.

NOTES: SPIE=Piezometer, SP=Standpipe

For multiple installations, use different Installation IDs.

For piezometers installation depth = tip depth. For standpipes = base of pipe

COMMENTS

Unable to locate LGBH05 and RBBH08. LGBH06 was blocked All groundwater levels are recorded from ground level

		allation Det		eis are recor		-		ed Water Lev	vel			
Exploratory Hole ID	_	Depth		Date	Time	Reading	Date	Time	Reading	Date	Time	Readin
	Type	m	ID	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m
SBHP01 RC	SPIE	8.00		20/03/2008	12:00	DRY	08/04/2008	16:40	DRY	18/04/2008	10:45	DRY
SBHP02 RC	SPIE	9.80		20/03/2008	11:45	5.59	08/04/2008	16:55	7.98	18/04/2008	10:30	8.20
SBHP03 RC	SPIE	5.00		20/03/2008	11:40	2.80	08/04/2008	16:50	DRY	18/04/2008	10:25	4.93
SBHQ01 RC	SPIE	11.80		20/03/2008	10:40	6.72	08/04/2008	17:13	7.24	18/04/2008	10:10	7.48
SBHQ02 RC	SPIE	6.00		20/03/2008	10:45	4.91	08/04/2008	17:10	DRY	18/04/2008	10:05	DRY
SBHQ03 RC	SPIE	11.00		20/03/2008	10:50	6.76	08/04/2008	17:05	7.69	18/04/2008	10:15	8.00
SBHQ04 RC	SPIE	8.00		20/03/2008	11:30	6.97	08/04/2008	17:02	DRY	18/04/2008	10:40	DRY
SBHQ06 RC	SPIE	7.35		20/03/2008	11:20	4.47	08/04/2008	17:20	6.63	18/04/2008	12:20	4.79
SWSJ08	SP	3.30		19/03/2008	15:10	0.44	03/04/2008	16:00	0.46	17/04/2008	12:35	0.42
SWSJ13	SP	2.50		17/03/2008	13:25	DRY	03/04/2008	18:12	DRY	17/04/2008	13:12	DRY
SWSJ21	SP	6.00		18/03/2008	14:30	4.42	03/04/2008	17:33	5.89	17/04/2008	13:32	6.50
SWSJ23	SP	7.80		18/03/2008	15:05	7.58	03/04/2008	17:35	7.20	17/04/2008	13:35	7.20
SWSJ34	SP	6.00		19/03/2008	08:55	2.36	03/04/2008	17:23	3.26	17/04/2008	13:46	DRY
SWSJ37	SP	5.60		18/03/2008	11:15	0.55	03/04/2008	17:25	0.67	17/04/2008	13:42	0.63
LGBH02	SP	8.88		17/03/2008	12:55	7.48	03/04/2008	18:05	7.46	17/04/2008	13:00	7.48
LGBH03	SP	8.90		17/03/2008	13:15	7.24	03/04/2008	18:08	7.32	17/04/2008	13:03	7.30
LGBH04	SP	10.50		18/03/2008	13:20	8.87	03/04/2008	17:40	8.90	17/04/2008	13:29	8.94
LGBH09	SP	7.00		17/03/2008	11:00	1.08	03/04/2008	17:45	1.15	17/04/2008	15:08	1.05
LGBH10	SP	14.60		18/03/2008	15:20	8.31	03/04/2008	17:27	8.20	17/04/2008	13:40	8.70
LGBH11	SP	11.20		18/03/2008	11:40	6.88	03/04/2008	17:18	7.00	17/04/2008	15:38	7.08
LGBH12	SP	7.05		17/03/2008	10:00	1.30	03/04/2008	17:49	1.47	17/04/2008	15:15	1.36
RBBH07	SP	6.25		19/03/2008	13:25	0.66	03/04/2008	15:50	0.68	17/04/2008	12:30	1.10
RBBH09	SP	7.05		19/03/2008	14:40	1.18	03/04/2008	16:07	1.21	17/04/2008	12:42	1.25
RBBH10	SP	6.85		19/03/2008	13:45	0.70	03/04/2008	16:03	0.75	17/04/2008	12:39	0.78
ecorded by:	S Davis	S	Ch	necked by:	I Swain	App	roved by:	I Swain				_ (

Checked by: Recorded by: S Davis I Swain Approved by: I Swain 17/03/08-17/04/08 Date: 21/04/2008 Date: 21/04/2008 Date: SI GWR 2.03 Form No. Revision No. Issue Date 07/01/2008



A5 Appendix 5

Relevant Extract of Additional Environment Data

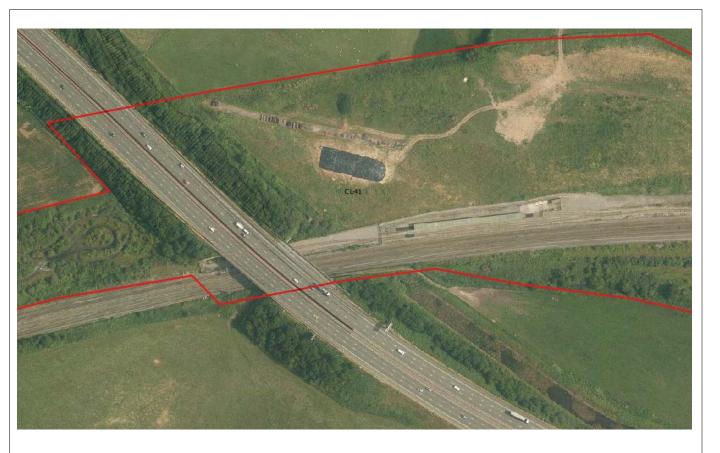


Plate 01: Extract of 2013/2014 Aerial Photograph showing disturbed ground, stored materials and what is though to be an area of plastic sheeting.



Plate 02: Extract of 2014 High Resolution Aerial Photograph showing disturbed ground and stored materials. Note small scale earthworks outside the Site boundary in agricultural land.

Ollerit.	Weish Government	
Project:	M4CaN	

Job Ref: JER6591 Checked By: Date: Oct 2015

Annex D26

Data Set Outside Individual Land Contamination Assessment Reports

M4CAN
Soil Analysis Results & Screening Assessment
Allignment outside of CL sites - chainage 0 to +6,600

Sample Reference Specimen Depth (m)																				1 BH311 0.5 0.8 - 0.9			BH314 BH3 0.6 - 0.7 1 - 1				BH316 1.5 - 1.6												3H403 T	P312 T	TP312 T
ecimen Depth (m) Level (m)		51.9	51.3	50.7	7 48.8	48.2	25 47	7.85 48	3.65 48.	.05 45.0	65 53.2	5 52.85	68.15	67.35	66.7	66.1	56.4	55.8	55.3	74.75 74.3	35 74.89	79.7	61.6	61.2	61.2 59.	.3 24.7	5 23.95	25.45	18.05	17.45 16	5.95 17.9	95 13.5	55 15.	.4 10.29	25 5.4	4 5.95	5 4.65	5.2	4.9		9.15
nple Type		ES	ES		ES	ES	ES	ES	ES	ES	ES				ES		ES E			ES			ES ES	ES		ES		S E		ES	ES	ES							ES E		ES E
ology Code	Units	MG	MG	MG	MG	CLAY	CLAY	MG	CLAY	CLAY	MG	MG	MG	SAND	MG	NG I	MG C	LAY CLA	Y MG	MG	CLAY	GRAVEL	MG MG	SILT	SILT	MG	MG	LAY N	G MG	MG	SILT	GRAVEL	CLAY	GRAVEL	CLAY	CLAY	CLAY	CLAY	JAY C	LAY G	GRAVEL C
ter Code		2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 G	61 2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	1015 GI	2015 GI 2	015 GI 201	IS GI 2015	GI 2015 GI	2015 GI	2015 GI	2015 GI 201	5 GI 2015	GI 2015 GI	2015 GI	2015 GI	2015 GI 21	015 GI 2015	GI 2015 G	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI 2	.015 GI 2	2015 GI 2
Inorganics	ma/ka																				_				_								_		_				=		
mony nic	mg/kg mg/kg	17	48	39	200	10	5.8	30	3.1	2.4	32	5.8	27	8.5	11	5.9	43	3.4	4 4	8 36	3	2.6	33	32 2	2 1.5	23	1.1	3.7	19	7 <1	2.8	<1	<1	8.6	22	16	10	14	20	1.7	3.4
ım	mg/kg																																								
/llium	mg/kg								_																					_						₩		$\perp \! \! \perp \! \! \perp$		\rightarrow	\longrightarrow
ron ron Water Soluble	mg/kg mg/kg	0.49	<0.4	<0.4	1.2	<0.4	<0.4	4 <0.4	4 <0.4	<0.4	<0.4	<0.4	4.5	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	0.4 1	<0.4	<0.4	1 (0.88 <0	0.4 <0.4	<0.4	<0.4	2.6	0.56	.1 0.8	0.65	0.56	<0.4	<0.4	1.9	0.72	1	0.63	1.5	<0.4	<0.4
Imium	mg/kg	0.36	0.58	4.4	1.2	0.43	<0.1	1 0.39	0.1	<0.1	3.2	0.2	0.7	0.21	0.58	0.24	0.71	0.12	0.15 0.	24 0.85	1.3	0.19	10	4.8 0.	15 <0.1	18	0.42	0.18	0.39	1 <0.	<0.1	<0.1	<0.1	<0.1	0.13	0.12	<0.1	0.14	0.11	<0.1	<0.1
omium	mg/kg	9.7	45		720	58	37	11	45	39	16	38	16	39	37	44	7.1	27	32 1	5 21	44	58	8.8 17	16 4	8 58	9.4	38	35	15	2 37	38	43	53	33	56	65	33	46	51	35	43
oper	mg/kg	4.3	11	12	63	13	76	3.7	11	10	3.3	11	7.1	11	8.1	14	3.1	5.6	9.4 9	.6 11	12	9.7	17	12 1	5 11	36	27	12	6.5	i0 6.4	11	12	11	11	14	22	13	12	22	7.2	11
n d	mg/kg mg/kg	14	37	980	26	18	6.7	58	10	89	110	15	44	24	21	31	25	13	20 1	0 46	20	13	130	95 2	9 23	560	27	25	26 6	00 15	16	26	14	11	49	47	19	28	34	11	13
rcury	mg/kg		0.2	<0.1	0.45	0.15	<0.1	1 0.2	<0.1	<0.1	0.19	<0.1	<0.1	<0.1	<0.1	<0.1	0.18	<0.1	<0.1 <	0.1 0.14	0.17	<0.1	0.23	0.17 0.	13 <0.1	0.17	<0.1	<0.1	<0.1 0	57 <0.:	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	<0.1	
lybdenum	mg/kg																																						=		-
kel	mg/kg		11 <0.2	12	650	44	44	6.3	59	52	6.8	51	14	33	32	61	6.4	39	45	8 19	45	57	7.5 <0.2	10 4	4 68	9.3	64	35	8.5	2 51	40	52	53	42	47	48	31	45	42	42	51
enium adium	mg/kg mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	2 <0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.44	0.6	<0.2	0.26	0.4 <	1.2 <0.2	<0.2	<0.2	40.2	U.2 <l< td=""><td>3.2 <0.2</td><td>0.38</td><td>0.54</td><td><0.2</td><td>0.74 0</td><td>42 <0</td><td><0.2</td><td><0.2</td><td><0.2</td><td><0.2</td><td><0.2</td><td><0.2</td><td><0.2</td><td><0.2</td><td><0.2</td><td>0.4</td><td>0.52</td></l<>	3.2 <0.2	0.38	0.54	<0.2	0.74 0	42 <0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.4	0.52
c	mg/kg		37	130	140	48	41	73	68	59	200	68	64	82	86	97	60	51	63 3	5 95	77	140	510	220 8	1 83	1200	89	67	66 3	100 64	60	77	64		110	140	72	110	110	49	59
nide (total)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <	0.5	<0.5	<0.5	<0.5 ←	40.5 <0	0.5 < 0.5	<0.5	<0.5	<0.5	<0.5 <	0.5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
nide (free) moniacal Nitrogen as N	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5 <0.5	5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <	0.5	<0.5	<0.5	<0.5 ←	40.5 <0	0.5	<0.5	<0.5	<0.5	<0.5 <	0.5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Other	1118/118				_	_								_				_				_		_		_		_					_	_	_		_		_		
estos Presence Screen	None					0		0	0		0	0	0		0		0			0 0			0				0		0	0									=	0	$\overline{}$
estos Identification	%		1		<0.001	<0.001	1	<0.00	0.00	11	<0.001	< 0.001	<0.001		<0.001		<0.001		<0.	0.001		1	<0.001	-	T		<0.001		<0.001 <0	001					\bot	$\perp =$	+ =	$\vdash $	\Box	<0.001	-
ss on Ignition	% %	 	1	-	2.1	+	-	+	_	+	+	+	3		0.58		4.4		_	_	+	 	3.9	_	_	0.32	0	-+		.1	+	0.28	_	+	0.51	0.76	+'	\vdash	-+	-	$\overline{}$
tal Organic Carbon	pH Units	9.1	9.5	9.5	12		8.9	9,7	9.1	8.8	9.7	8.8		8.1	10.7	9.4		8.5	8 10	0.1 9.6	7.1	7.8	9.6	9.6	7 7.4	9.4		6.5		.4 10.3	8.6							8	8.2	7.6	7.9
aterial >2mm	%																																								
lphate (soluble)	g/l		I —	\vdash	\perp			\perp			\perp	\perp				-	-	$ \top$	$-\Gamma$		1 =	_	\vdash			1	\perp	\neg	-T			1	\perp	1 =	+ =	\vdash	+ =	$\vdash \neg$	\perp	$ \Box$	-
Organics	MJ/kg	-																																				-			
Bs (vs Aroclor 1254)	mg/kg		Т	1	T	т —	$\overline{}$	_	$\overline{}$	_	_	_									_	T				_					_	_	_	_	$\overline{}$	$\overline{}$	$\overline{}$		-	$\overline{}$	$\overline{}$
enols Monohydric enol	mg/kg																																								
enol	mg/kg																																		1	$\overline{}$	\blacksquare	\blacksquare	\rightarrow	\rightarrow	\vdash
enols (total) BTEX	mg/kg				<0.3				<0.3		<0.3	<0.3	<0.3				<0.3	<0.3	<0.3				<0.3	(0.3												_		$oldsymbol{}$		<0.3	<0.3
O (C4-C12)	mg/kg	—	_		_	_					_	Т									_	Т				_						_	_	_	$\overline{}$	_	_		$\overline{}$	$\overline{}$	$\overline{}$
BE	mg/kg mg/kg																																		+		+		-	-	
nzene	mg/kg				<0.001					<0.001	<0.001			<0.001	<0.001		<0.001	<0.001					<0.001 <			<0.001				001 <0.00					1	$\overline{}$	\blacksquare	\blacksquare	\rightarrow	\rightarrow	\vdash
uene yl benzene	mg/kg mg/kg	-			<0.001				_	<0.001	<0.001 <0.001			<0.001	<0.001	_	<0.001	<0.001	_		_		<0.001 <0	0.001		<0.001				001 <0.0		_		_	+	-	+'	\vdash	-	-	-
& p Xylene	mg/kg				<0.001						<0.001				<0.001		<0.001						<0.001 <			<0.001				001 <0.0					+-	-	-	\vdash	-	-	-
Xylene	mg/kg				< 0.001					< 0.001	<0.001			< 0.001	<0.001		<0.001	<0.001					<0.001 <	0.001		<0.001			<0	001 <0.0	01										-
TPH H >C6-C8.																					_											_		_		_		_	_		
H >C8-C10.	mg/kg mg/kg					4		<1	<1				<1			<1 <1			<1 <1		_				1	+	<1		<1		_	_	<1		+-	<1		<1		<1	
H >C10-C12.	mg/kg					<1		<1	<1			<1	<1			<1			<1.					· ·	1		<1		<1				<1			<1		<1		<1	<1
H >C12-C16.	mg/kg					⊲		<1	<1			<1	<1			<1			◁					<	1		<1		<1				<1		\perp	<1		<1	=	<1	<1
H >C16-C21. H >C21-C35.	mg/kg mg/kg	1				4		<1	<1				4			<1	_		ব		_	_			1	_	<1		<1	_	_	_	<1		+	4		<1		<1 <1	
iphatics C5-C6	mg/kg				<0.1			- 14	- 14		<0.1			<0.1	<0.1		<0.1		-				<0.1		•	<0.1				0.1 <0.:			-		+	-	+-		-		
iphatics >C6-C8	mg/kg				<0.1					<0.1	<0.1				<0.1		<0.1						<0.1 ←			<0.1				0.1 <0.:									=		-
iphatics >C8-C10 iphatics >C10-C12	mg/kg				<0.1				_	<0.1	<0.1			<0.1	<0.1		<0.1				_		<0.1			<0.1			<	0.1 <0.:	_	_	_	_	+-	\vdash	+	\vdash	\rightarrow	\rightarrow	\rightarrow
phatics >C10-C12 phatics >C12-C16	mg/kg mg/kg	.	-		<1	+	+	_	_		<1				<1	_	<1		_	_	+	_	<1		_	<1		-		1 4		_		-	+	-	+-	\vdash	-+	\rightarrow	-
phatics >C16-C21	mg/kg				<1					<1	<1			<1	<1		<1						<1	<1		<1				1 4							-		-		
phatics >C21-C35	mg/kg				<1				_	<1	<1			<1	<1		<1	<1					<1	<1		<1				1 <1						₩		$\perp \! \! \perp \! \! \perp$		\rightarrow	\longrightarrow
al Aliphatics C5-C35 phatics >C35-44	mg/kg mg/kg	 	1	-	<1	+	-	+	_		<1	+	 	- 1	<1		<1	<1	_	_	+	 	<1	<1	_	<1	+	-+		1 <1	+	+	_	+	+	+	+'	\vdash	-+	-	$\overline{}$
omatics >C5-C7	mg/kg mg/kg	l		-	<0.1	+	_	+	_		<0.1			<0.1	<0.1	-	<0.1	<0.1			+	_	<0.1		_	<0.1	1	-		0.1 <0.:		_	_	1	+-	\vdash	+-	\vdash	-+	\rightarrow	\rightarrow
matics C6-C7	mg/kg							\perp													\perp																				
omatics >C7-C8	mg/kg				<0.1						<0.1	_		<0.1			<0.1				_	_	<0.1			<0.1				0.1 <0.:			_	_		₩_		\vdash	, —	— ∓	-
matics >EC8-EC10 matics >EC10-EC12	mg/kg mg/kg	1	1	 	<0.1		-	+	_		<0.1				<0.1		<0.1		_	_	+	1	<0.1		_	<0.1		-		0.1 <0.:		+	+	1	+	\leftarrow	+	\vdash	\rightarrow	\rightarrow	$\overline{}$
omatics >EC10-EC12	mg/kg mg/kg				<1			_			<1				<1		<1				1	T	<1			<1				1 4		1		1	+-	\vdash	-	\vdash	-+	-+	-
omatics >EC16-EC21	mg/kg				<1					<1	<1			<1	<1		<1	<1					<1	<1		<1				1 4											
omatics >EC21-EC35	mg/kg	!		-	<1					<1	<1	1		<1	<1		<1	<1		_	_	_	<1	<1	_	<1	\perp			1 4	_	_	_	-	+	+		\vdash	\rightarrow	\rightarrow	\vdash
al Aromatics C6-C35 matics >C35-44	mg/kg mg/kg	 	 	 	<1	+	_	+	_	<1	<1	_	_	<1	<1		<1	<1		_	+	 	<1	<1	_	<1	+	-		1 4	+	+	_	+	+-	\vdash	+-	\vdash	-+	\rightarrow	-
al Aliphatic TPH	mg/kg				<5						<5				<5		<5						<5			<5				5 5											
al Aromatic TPH	mg/kg		1		<5			-		<5	<5			<5	<5		<5	<5	\neg	-		1	<5	<5	T	<5				S <s< td=""><td></td><td></td><td></td><td></td><td>\bot</td><td>$\perp =$</td><td>+ =</td><td>\vdash</td><td>\Box</td><td>\Box</td><td>-</td></s<>					\bot	$\perp =$	+ =	\vdash	\Box	\Box	-
(Aliphatics and Aromatics C5-C35) al petroleum hydrocarbons	mg/kg ug/kg				<10	<u> </u>				<10	<10			<10	<10		<10	<10					<10	<10		<10				10 <10	_	_			土	世	$\pm \pm \prime$	ш	二十	<u></u>	一
PAH aphthene	mg/ka	<0.1	<0.1	<0.1	<0.1	<0.1	on 1	1 <0.1	<n1< td=""><td><0.1</td><td><0.1</td><td><0.1</td><td><0.1</td><td><0.1</td><td><0.1</td><td><0.1</td><td><0.1</td><td><0.1</td><td><0.1</td><td>11 <01</td><td><0.1</td><td><0.1</td><td>an 1 -</td><td>01 4</td><td>11 <01</td><td><0.1</td><td><0.1</td><td><0.1</td><td><0.1</td><td>01 0</td><td><0.1</td><td><0.1</td><td><0.1</td><td>40.1</td><td><0.1</td><td>40.1</td><td><0.1</td><td><0.1</td><td><0.1</td><td><0.1</td><td><0.1</td></n1<>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	11 <01	<0.1	<0.1	an 1 -	01 4	11 <01	<0.1	<0.1	<0.1	<0.1	01 0	<0.1	<0.1	<0.1	40.1	<0.1	40.1	<0.1	<0.1	<0.1	<0.1	<0.1
naphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1 <0.1	1 <0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 <	0.1	<0.1	<0.1	<0.1 · · · · · · · · · · · · · · · · · · ·	0.1	0.1	<0.1	<0.1	<0.1	<0.1	0.1 <0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
naphthylene hracene	mg/kg	< 0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1 <0.1	1 <0.1	<0.1	<0.1	0.19	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 <	0.1	<0.1	<0.1	<0.1	0.1	0.1 <0.1	0.13	<0.1	<0.1	<0.1 <	0.1 <0.:	<0.1	0.31	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
z(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1 <0.1	1 <0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 <	0.1	<0.1	<0.1	0.1 0.1 0.1 0.1 0.1 0.1 0.1	0.1	0.1 <0.1	0.97	<0.1	<0.1	<0.1 <	0.1 <0.:	<0.1	0.59	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
zo(a)pyrene zo(b)fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1 <0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 <	0.41	<0.1	<0.1	40.1	0.1	11 <0.1	0.34	<0.1	<0.1	<0.1	0.1 <0.1	<0.1	0.63	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
nzo(ghi)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1 <0.1	1 <0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 <	0.1	<0.1	<0.1	<0.1	0.1	0.1 <0.1	0.29	<0.1	<0.1	<0.1	0.1 <0.1	<0.1	0.36	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
nzo(k)fluoranthene	mg/kg	< 0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1 <0.1	1 <0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	©.1 <	0.1 <0.1	0.28	<0.1	<0.1	<0.1 <	0.1 <0.1	<0.1	0.14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
ysene	mg/kg	< 0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1 <0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 <	0.1 1.1	<0.1	<0.1	<0.1	0.1 <	0.1 <0.1	0.46	<0.1	<0.1	<0.1 <	0.1 <0.1	<0.1	0.77	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
enzo(ah)anthracene	IIIg/kg	VO.1	<0.1	V0.1	NU.1	VU.1	VO.1	1 \0.1	1.0.1	V0.1	VO.1	VU.1	VU.1	V0.1	V0.1	VO.1	V0.1	VU.1	VU.1	1.0	VO.1	V0.1	VU.1	40.1	7.1	VU.1	VU.1	VU.1	VU.1	0.1	VU.1	V0.1	VU.1	VU.1	VU.1	VU.1	VU.1	VU.1	NU.1	VU.1	VU.1
oranthene	mg/kg mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	1 <0.1	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	0.1	<0.1	< 0.1	< 0.1	<0.1 <	0.1 <0.1	<0.1	< 0.1	<0.1	<0.1	< 0.1	<0.1	< 0.1	< 0.1	<0.1	< 0.1	< 0.1
jorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1 <0.1	1 <0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 <	0.1	<0.1	<0.1	<0.1	0.1	0.1 <0.1	0.65	<0.1	<0.1	<0.1	0.1 <0.:	<0.1	0.51	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
deno(123cd)pyrene		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1 <0.1	1 <0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 <	0.1	<0.1	<0.1	<0.1 · · · · · · · · · · · · · · · · · · ·	0.1	0.1	<0.1	<0.1	<0.1	<0.1 <	0.1 <0.:	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
deno(123cd)pyrene	mg/kg	-0.1										0.2		1 201	1 201 T	<0.1	< 0.1	< 0.1	<0.1	11 I <01	<0.1	I < 0.1	I 401 I 4	0.1	0.1	0.79	<0.1	<0.1	<0.1 <	01 I <0°	1 401	1 1 2		1 40.1				1 -01	. <01	<0.1	<0.1
deno(123cd)pyrene	mg/kg mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	40.1	<0.1	<0.1	0.3	v0.1	<0.1	r0.1	z0.1	z0.1	20.1	-01	11 0.22	40.0	40.1	40.1	01 -	11 404	0.04	40.1	40.1	40.1	0.1	40.1	1.5	<0.1	10.1	<0.1	40.1	<0.1	<0.1	<0.1		-01
Fluorene indeno(123cd)pyrene Naphthalene Phenanthrene Pyrene PAH 16 Total	mg/kg mg/kg mg/kg	<0.1 <0.1 <0.1	<0.1	<0.1	0.22	<0.1 <0.1 <2	<0.1	1 <0.1	l <0.1	<0.1	<0.1	0.32	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 <	0.23	<0.1	<0.1	<0.1	<0.1 <0	0.1 <0.1	0.81	<0.1	<0.1	<0.1 <	0.1 <0.:	<0.1	1.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2	7

Not applicable Insufficient sample numbers to undertake 9SUCL statistical analysis Chromium VI criteria used Bemental Mercury criteria used No S4ULs available, C4SL used instead

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	Selected S4ULs Criteria	No. Data Exceeding S4ULs Criteria
0	0					_
44	41	None > LOD 200	None > LOD 1.1	BH304 @ 48.85mbGL	170	0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD		12	0
44 0	18 0	4.5	0.49	BH308 @ 68.15mbGL	46000	0
44	31	None > LOD 81	None > LOD 0.11	BH318 @ 17.45mbGL	190	0
44	44	720	7.1	BH304 @ 48.85mbGL	33	27
44	44	76	3.1	BH304 @ 47.85mbGL	44000	0
						0
44	44	980	6.7	BH302 @ 50.7mbGL	1300	0
44 0	14 0	0.57	0.11	BH318 @ 17.45mbGL	30	0
44	44	None > LOD 650	None > LOD 3.9	BH304 @ 48.85mbGL	980	0
44	11	0.74	0.26	BH318 @ 18.05mbGL	1800	0
					5000	0
44	43	3100	35	BH318 @ 17.45mbGL	170000	0
44	0	None > LOD	None > LOD			44
44	0	None > LOD	None > LOD			44 0
						0
18	18	0	0	BH304 @ 48.85mbGL		0
18	0	None > LOD	None > LOD	BH304 @ 48.831110GC		18
0	0	None > LOD	None > LOD			0
11	11	4.4	0	BH310 @ 56.4mbGL		0
44	44	12	6.5	BH304 @ 48.85mbGL	6-9	21
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD		0.24	0
	Ť				440	0
					440	0
12	0	None > LOD	None > LOD		440	0
0	0	None > LOD None > LOD	None > LOD None > LOD			0
12	0				27	0
12	0	None > LOD None > LOD	None > LOD None > LOD		56000	0
12	0	None > LOD	None > LOD		5700	0
12	0	None > LOD	None > LOD		5900	0
12	0	None > LOD	None > LOD		6600	0
15	0	None > LOD	None > LOD		7800	0
15 15	0	None > LOD None > LOD	None > LOD None > LOD		2000 9200	0
15	0	None > LOD	None > LOD None > LOD		10000	0
15	0	None > LOD	None > LOD		7600	0
15	1	43	43	BH318 @ 18.05mbGL	7800	0
12	0	None > LOD	None > LOD		3200	0
12	0	None > LOD	None > LOD		7800	0
12	0	None > LOD	None > LOD		2000	0
12 12	0	None > LOD None > LOD	None > LOD None > LOD		9700 25000	0
12	0	None > LOD	None > LOD		450000	0
12	0	None > LOD	None > LOD		450000	0
0	0	None > LOD	None > LOD			0
12	0	None > LOD	None > LOD		450000	0
12	0	None > LOD	None > LOD		26000	0
0	0	None > LOD	None > LOD		7800	0
12	0	None > LOD None > LOD	None > LOD None > LOD		56000 3500	0
12	0	None > LOD None > LOD	None > LOD None > LOD		3500 9200	0
12	0	None > LOD	None > LOD		10000	0
12	0	None > LOD	None > LOD		7600	0
12	0	None > LOD	None > LOD		7800	0
0	0	None > LOD	None > LOD			0
12	0	None > LOD	None > LOD		7800	0 12
12	0	None > LOD None > LOD	None > LOD None > LOD			12
0	0	None > LOD None > LOD	None > LOD None > LOD		t	12 0
12	0	None > LOD	None > LOD			12
44	0	None > LOD	None > LOD		29000	0
44	0	None > LOD	None > LOD		29000	0
44	3	0.31	0.13	BH320 @ 13.55mbGL	150000	0
44	2	0.97	0.59	BH316 @ 24.75mbGL	49	0
44 44	3	0.63 0.56	0.34 0.26	BH320 @ 13.55mbGL BH320 @ 13.55mbGL	11 13	0
44	2	0.56	0.26	BH320 @ 13.55mbGL BH320 @ 13.55mbGL	13	0
44	2	0.79	0.29	BH316 @ 24.75mbGL	370	0
44	3	1.1	0.46	BH311 @ 74.35mbGL	93	0
44	0	None > LOD	None > LOD		1.1	0
44	5	1.6	0.1	BH320 @ 13.55mbGL	6300	0
44	0	None > LOD	None > LOD		20000	0
44	2	0.65	0.51	BH316 @ 24.75mbGL	150	0
44 44	0	None > LOD	None > LOD	DUDDO O 43 FF who:	190 6200	0
	3	1.3	0.3 0.22	BH320 @ 13.55mbGL TP312 @ 10.85mbGL	6200 15000	0
44						
44	6	8.6	2	BH320 @ 13.55mbGL	13000	41

Sample Reference Specimen Depth (m) OD Level (m)	-	BH301 0.4 - 0.5	BH302 E	BH302 BI	H304 B	BH304 B	BH304	BH305 0.4 - 0.5	BH305 1 - 1.2	BH305	BH307 0.4 - 0.5	0.8 - 0.9 C	BH308 0 - 0.5	BH308 0.8 - 0.9	BH309 0.4 - 0.5	BH309	BH310 BH3 0.4 - 0.7 1 - :	10 BH310	BH311 7 0.4 - 0.5	BH311 0.8 - 0.9	BH312	BH313	BH314 0.6 - 0.7	BH314 1 - 1.2	BH315	BH315	BH316 E	BH316 BH	317 BH31	BH318	BH318	BH319 B	H320 BI	H321 BI	H322 E	BH327 0.4 - 0.5	BH401 0 - 0.4	BH401 1.3 - 1.4	BH402 0.7 - 0.8	BH403 1	P312 T	P312 TF	/318
DD Level (m)		51.95	51.3	50.7	48.85	48.25	47.85	48.65	48.05	45.65	53.25	52.85	68.15	67.35	66.7	66.1	56.4	55.8	5.3 74.	75 74.3	5 74.8	15 79.7	61.6	61.2	61.2	59.3	24.75	23.95	25.45	8.05 17.4	45 16.95	17.95	13.55	15.4	10.25	5.4	5.95	4.65	5.2	4.9	10.85	9.15	5.8
ample type	_	ES	ES E	ES ES	S E	S E	ES	ES	ES	ES	ES	ES E	ES	ES	ES	ES	ES ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES E	ES ES	ES	ES	ES	ES E	S ES	S ES	S E	ES	ES	ES	ES	ES E	S E	ES ES	S
Geology Code	Units	MG	MG I	MG M	ig c	CLAY C	CLAY	MG	CLAY	CLAY	MG	MG P	MG	SAND	MG	MG	MG CLA	Y CLAY	MG	MG	CLAY	GRAVEL	MG	MG	SILT	SILT	MG I	MG CL	AY MG	MG	MG	SILT G	RAVEL C	LAY G	RAVEL C	CLAY	CLAY	CLAY	CLAY	CLAY C	LAY G	GRAVEL CI	AY
Cluster Code		2015 GI	2015 GI 2	2015 GI 20	015 GI 2	2015 GI 2	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI 2	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI 201	5 GI 2015 G	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI 20	15 GI 2015	GI 2015 GI	2015 GI	2015 GI 2	015 GI 20	015 GI 20	015 GI 2	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI 2	015 GI 2	015 GI 2	015 GI
VOCs																																											
1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane	ug/kg																		_	_	_	_				_		_	_	_	_											+	
1,1,1-Trichloroethane	ug/kg ug/kg	-									_								_	+		+									_											\rightarrow	
1,1,2-Trichloroethane	ug/kg																																									$\overline{}$	_
1,1-Dichloroethane 1,1-Dichloroethene	ug/kg ug/kg																		_	_		_							_	_	_		_	_	_							-+	
1,1-Dichloropropene	ug/kg																																									-	
1,2,3-Trichlorobenzene 1,2,3-Trichloropropane	ug/kg																																										
1,2,3-Trichloropropane 1,2,4-Trichlorobenzene	ug/kg ug/kg																		_	_		_							_	_	_		_	_	_							-+	
1,2,4-Trimethylbenzene	ug/kg																																									-	
1,2-Dibromo-3-Chloropropane	ug/kg																																									=	
1,2-Dibromoethane 1,2-Dichlorobenzene	ug/kg ug/kg			-	-	-													_	_	-	+				_		-		_	_		-	-							-	-+	
1,2-Dichloroethane	ug/kg																																									-	
1,2-Dichloropropane	ug/kg																																									=	
1,3,5-Trimethylbenzene 1,3-Dichlorobenzene	ug/kg ug/kg			-	-	-													_	_	-	+				_		-		_	_		-	-							-	-+	
1,3-Dichloropropane	ug/kg																																										
1,4-Dichlorobenzene	ug/kg		\vdash			-				\vdash		-												\Box		\vdash	\vdash					\vdash	Ţ						\Box	\vdash		-	
2.2-Dichloropropane 2-Chlorotoluene	ug/kg ug/kg	1	\vdash	-+	-+	-+				\vdash		 					\vdash	-	+	+	+	+	_	\vdash		_	\vdash	-+	_	_	+	\vdash	-	-	-	-			\vdash	\vdash	-	-+	
4-Chlorotoluene	ug/kg																																									$=$ \pm	
4-Isopropyltoluene	ug/kg		\vdash							\vdash		-1			_		-		_	1	1	1	_	\vdash	_	\vdash	\vdash			_		\vdash							\vdash	-		— Г	
Bromobenzene Bromochloromethane	ug/kg ug/kg	1		-+	-+															1	1	1									1		-	-	-	-			\vdash			\rightarrow	
Bromochloromethane Bromodichloromethane Bromoform	ug/kg ug/kg																																									=	_
Bromoform Bromomethane	ug/kg ug/kg	-	\vdash		-+	\rightarrow		-	-	\vdash		\vdash		\vdash		-	\vdash	_	-	+	+	+	-	\vdash		_	\vdash	-	-	_	_	\vdash	\rightarrow	-			—	—	\vdash	\vdash		\rightarrow	
Carbon Disulphide	ug/kg			+	+														\pm																							= $+$	
Chlorobenzene	ug/kg ug/kg																																									=	
Chloroethane Chloroethene	ug/kg ug/kg																		_	_	_	_				_		_	_	_	_											+	
Chloroform	ug/kg																																									-	
Chloromethane	ug/kg																																									=	
cis-1,2-Dichloroethene cis-1,3-Dichloropropene	ug/kg ug/kg			-	-	-													_	_	-	+				_		-		_	_		-	-							-	-+	
Dibromochloromethane Dibromomethane	ug/kg																																									-	
Dibromomethane	ug/kg																																									\rightarrow	
Dichlorodifluoromethane Dichloromethane	ug/kg ug/kg																																									-	
Hexachlorobutadiene (HCBD)	ug/kg ug/kg ug/kg																																										
Isopropylbenzene	ug/kg	-			-	-													_		-	-								_	_										_	\rightarrow	
n-Butylbenzene n-propylbenzene	ug/kg ug/kg ug/kg																																									-	
n-propylbenzene Sec-Butylbenzene	ug/kg																																										
Styrene Text Butulhannana	ug/kg																		_	_	_	_				_		_	_	_	_											+	
Tert-Butylbenzene Tetrachloroethene	ug/kg ug/kg																																									-	_
Tetrachloromethane (Carbon Tetra Chloride) trans-1,2-Dichloroethene	ug/kg																																									\rightarrow	
trans-1,2-Dichloropenee	ug/kg ug/kg																		_	_	_	_								_	_											-	
Tribromomethane	ug/kg																																										
Trichloroethene Trichloroffuncementhane	ug/kg																		_	_	_	_				_		_	_	_	_											+	
Trichlorofluoromethane Vinyl Chloride	ug/kg ug/kg																																									-	_
SVOCs								_															_			_																	
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	mg/kg mg/kg			-	-	-													_	_	-	+				_		-		_	_		-	-							-	-+	
2 4-Dichlorophenol	mg/kg																																										
2,4-Dinitrotoluene	mg/kg mg/kg mg/kg	!															\vdash		_	_	+	-	_	\vdash			\vdash			_	1	\vdash								\vdash		\rightarrow	
2,4-Dinitrotoluene	mg/kg	1		-+	-+							-+								1	1	1									1		-+	-+							-	-+	
2-Chloronaphthalene	mg/kg																																										
2-Chlorophenol 2-Methyl-4,6-Dinitrophenol	mg/kg mg/kg	1	\vdash	-+	-+	-+						\vdash				-	\vdash	-	+	+	+	+	-	\vdash	_	\vdash	\vdash	-	_	_	+	-	\rightarrow	-+	-	-			\vdash		-	-+	
2-Methylnaphthalene	mg/kg mg/kg																																										
2-Methylphenol 2-Nitroaniline	mg/kg					-				\vdash		-								_	_	1		\vdash			\vdash					\vdash	Ţ			-			\Box	-1		-	
2-Nitrophenol	mg/kg mg/kg			-+	-+							-+								1	1	1									1		-+	-+							-	-+	
3-Nitroaniline	mg/kg																																									=	_
4-Bromophenyl Phenyl Ether 4-Chloro-3-Methylphenol	mg/kg mg/kg mg/kg	 	\vdash		-+	-+		-		\vdash		\vdash				-	\vdash	-	+	+	+	+	-	\vdash	_	_	\vdash	-	_	_	_	\vdash	-	-	-	-	_	_	\vdash	\vdash	-	-+	
4-Chloroaniline	mg/kg			-+	-+															1	1	1								_	1		-	-	-	-			\vdash			\rightarrow	
4-Chlorophenyl Phenyl Ether	mg/kg mg/kg	l .																	1														\rightarrow	-					\Box		\neg	\dashv	
4-Methylphenol 4-Nitroaniline	mg/kg mg/kg	1	\vdash	-+	-+	-+						\vdash				-	\vdash	-	+	+	+	+	-	\vdash	_	\vdash	\vdash	-	_	_	+	-	\rightarrow	-+	-	-			\vdash		-	-+	
I-Nitrophenol	mg/kg																																									士	-
Azobenzene Bis(2-chloroethoxy)methane	mg/kg mg/kg	1	-							\vdash							-					_	_	\vdash		\vdash	\vdash					\vdash					\vdash		\vdash	-		— Г	
Bis(2-chloroethoxy)methane Bis(2-chloroethyl)ether	mg/kg mg/kg	 	\vdash	-	-	-				\vdash		\vdash					\vdash	-	_	+	+	+		\vdash	—			-	-		_	 	+	-					\vdash	\vdash	-+	-+	
Bis(2-chloroisopropyl)ether																																										$=$ \pm	
Bis(2-ethylhexyl)phthalate	mg/kg mg/kg	-	\vdash	-+	-+	\rightarrow		-	-	\vdash		\vdash		\vdash		-	\vdash	_	_	+	+	+	-	\vdash		_	\vdash	-	-	_	_	\vdash	\rightarrow	-			—	—	\vdash	\vdash		\rightarrow	
Butylbenzylphthalate Carbazole	mg/kg	1		-+	-+															1	1	1								_	1		-	-	-	-			\vdash			\rightarrow	
Carbazole Dibenzofuran	mg/kg mg/kg																																									$=$ \pm	_
Diethylphthalate	mg/kg		\vdash							\vdash		-1			_		-		_	1	1	1	_	\vdash	_	\vdash	\vdash			_		\vdash							\vdash	\vdash		— Г	
Dimethylphthalate Di-N-Butyl Phthalate	mg/kg mg/kg	1		-+	-+							-+								1	1	1									1		-+	-+							-	-+	
Di-N-Octyl Phthalate	mg/kg																																									=	_
Hexachlorobenzene (HCB) Hexachlorocyclopentadiene	mg/kg	!															\vdash		_	_	+	-	_	\vdash			\vdash			_	1	\vdash								\vdash		\rightarrow	
Hexachloroethane	mg/kg mg/kg	1		-+	-+							-+								1	1	1									1		-+	-+							-	-+	
sophorone	mg/kg																																									=	_
Nitrobenzene Ni Nitroso - Di Ni Propulamina	mg/kg	1	 													-	\vdash	_	_	+	+	+	-	\vdash		_	\vdash		_	_	_	\vdash	-		_				\vdash	\vdash	_	-+	
N-Nitroso-Di-N-Propylamine Pentachlorophenol (PCP)	mg/kg mg/kg	 								-									_	-	_	_				_			_	_	+			-	-							-+	

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	Selected S4ULs Criteria	No. Data Exceeding S4ULs Criteria
0	0	None > LOD	None > LOD			0
0	0	None > LOD None > LOD	None > LOD None > LOD			0
0	0	None > LOD	None > LOD		t	0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD		102	0
0	0	None > LOD	None > LOD			0
0	0	None > LOD None > LOD	None > LOD		220	0
0	0	None > LOD None > LOD	None > LOD None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD None > LOD	None > LOD None > LOD			0
	0					0
0	0	None > LOD None > LOD	None > LOD None > LOD			0
0	0	None > LOD	None > LOD		_	0
0	0	None > LOD	None > LOD		1	0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD		11	0
0	0	None > LOD None > LOD	None > LOD		56	0
0	0	None > LOD None > LOD	None > LOD None > LOD		0.059	0
0	0	None > LOD	None > LOD		0.059	0
0	0	None > LOD None > LOD	None > LOD		75	0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD		31	0
0	0	None > LOD None > LOD	None > LOD None > LOD		51	0
0	0	None > LOD None > LOD	None > LOD None > LOD		t	0
0	0	None > LOD	None > LOD		 	0
0	0	None > LOD	None > LOD		1	0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD		19	0
0	0	None > LOD	None > LOD		2.9	0
0	0	None > LOD None > LOD	None > LOD None > LOD			0
0	0	None > LOD None > LOD	None > LOD None > LOD			0
0	0	None > LOD None > LOD	None > LOD		1.2	0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD		0.059	0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0		None > LOD None > LOD	None > LOD None > LOD			0
0	0	None > LOD None > LOD	None > LOD None > LOD			0
0	0	None > LOD None > LOD	None > LOD None > LOD		 	0
	, i					0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD None > LOD	None > LOD		-	0
0	0	None > LOD None > LOD	None > LOD None > LOD			0
0	0	None > LOD None > LOD	None > LOD None > LOD			0
0	0	None > LOD None > LOD	None > LOD		 	0
0	0	None > LOD	None > LOD		1	0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
		L				0
0	0	None > LOD	None > LOD		-	0
0	0	None > LOD None > LOD	None > LOD None > LOD		1	0
0	0	None > LOD	None > LOD		 	0
0	0	None > LOD	None > LOD		 	0
0	0	None > LOD	None > LOD		1	0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD			0
0	0	None > LOD	None > LOD		30	0
	0	None > LOD	None > LOD			0
0				·		0
0	0	None > LOD	None > LOD			
0	0	None > LOD	None > LOD			0
0		None > LOD None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD None > LOD			0 0

M4CAN
Soil Analysis Results & Screening Assessment
Allignment outside of CL sites - chainage +6,600 to +8,900
16/07/2015

Sample Reference Specimen Depth (m)		BH405 0.3 - 0.5	BH406 0.3 - 0.7	BH407 0.8 - 1.2	BH409 0.5 - 0.7	BH410 0.3 - 0.7	BH410 1 - 1.2	BH411 0.5 - 0.6	BH411 1 - 1.1	BH411 2 - 2.1	BH411 3 - 3.1	BH411 4 - 4.1	BH411 5 - 5.1	TP402	TP403	TP404
OD Level (m) Sample Type Geology Code	Units	5.9 ES CLAY	5.85 ES CLAY	5.6 ES CLAY	5.9 ES CLAY	6.15 ES CLAY	5.45 ES CLAY	6.05 ES MG	5.55 ES MG	4.55 ES CLAY	3.55 ES CLAY	2.55 ES SILT	1.55 ES CLAY	5.15 ES CLAY	5.35 ES CLAY	5.35 ES CLAY
Cluster Code		2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI
Inorganics Antimony	mg/kg															
Arsenic Barium Beryllium	mg/kg mg/kg mg/kg	15	12	15	13	23	15	20	19	21	12	18	24	15	11	11
Boron Boron Water Soluble Cadmium	mg/kg mg/kg mg/kg	1.4	1.7	1.5	1.7	0.3	0.44	3.1	3.2	3.3	2.4 <0.1	4.1	6 <0.1	1.5 0.11	1.7	2.4 <0.1
Chromium Copper Iron	mg/kg mg/kg mg/kg	93 15	35 11	50	49 12	55 40	43	120 88	77 36	46	32 6.7	9.2	38 9.9	41	31 9.9	37 10
Lead Mercury Molybdenum	mg/kg mg/kg mg/kg	72 <0.1	26 <0.1	36 <0.1	31 <0.1	100 0.54	27 <0.1	100 0.32	110 0.27	25 <0.1	14 <0.1	15 <0.1	17 <0.1	29 <0.1	22 <0.1	23 <0.1
Nickel Selenium Vanadium	mg/kg mg/kg mg/kg	50 <0.2	31 <0.2	41 <0.2	41 <0.2	52 <0.2	38 <0.2	0.24	36 <0.2	45 <0.2	32 <0.2	36 <0.2	37 <0.2	42 <0.2	34 <0.2	32 <0.2
Zinc Cyanide (total) Cyanide (free)	mg/kg mg/kg mg/kg	220 <0.5 <0.5	79 <0.5 <0.5	120 <0.5 <0.5	120 <0.5 <0.5	170 <0.5 <0.5	90 <0.5 <0.5	160 <0.5 <0.5	160 <0.5 <0.5	96 <0.5 <0.5	70 <0.5 <0.5	82 <0.5 <0.5	91 <0.5 <0.5	100 <0.5 <0.5	86 <0.5 <0.5	98 <0.5 <0.5
Ammoniacal Nitrogen as N Other Asbestos Presence Screen	mg/kg None		1,010				1919	0	0	0	0	0	1910	1919	1919	10.0
Asbestos Identification Loss on Ignition Total Organic Carbon	% % %	0.92			0.93			<0.001	<0.001	<0.001	<0.001	<0.001				
pH Value Material >2mm Sulphate (soluble)	pH Units % g/I	7.2	8	7.5	7.2	7.6	8.2	9.2	9.1	8.5	9.1	8.4	8.5	8	8.2	8.3
Calorific Value Organics PCBs (vs Aroclor 1254)	MJ/kg mg/kg							1.1								
Phenols Monohydric Phenol Phenols (total)	mg/kg mg/kg mg/kg							<0.3	<0.3	<0.3		<0.3	<0.3			
GRO (C4-C12) MTBE	mg/kg mg/kg															
Benzene Toluene Ethyl benzene	mg/kg mg/kg mg/kg							<0.001 <0.001 <0.001				<0.001 <0.001 <0.001	<0.001 <0.001 <0.001			
m & p Xylene o Xylene TPH	mg/kg mg/kg							<0.001 <0.001				<0.001 <0.001	<0.001 <0.001			
TPH >C6-C8. TPH >C8-C10. TPH >C10-C12.	mg/kg mg/kg mg/kg				<1 <1 <1	<1 <1 <1			<1 <1 <1	<1 <1 <1						
TPH >C12-C16. TPH >C16-C21. TPH >C21-C35.	mg/kg mg/kg mg/kg				<1 <1 <1	<1 <1 <1			<1 <1 <1	<1 <1 <1						
Aliphatics C5-C6 Aliphatics >C6-C8 Aliphatics >C8-C10	mg/kg mg/kg mg/kg							<0.1 <0.1 <0.1				<0.1 <0.1 <0.1	<0.1 <0.1 <0.1			
Aliphatics >C10-C12 Aliphatics >C12-C16 Aliphatics >C16-C21	mg/kg mg/kg mg/kg							<1 <1 <1				<1 <1 <1	<1 <1 <1			
Aliphatics >C21-C35 Total Aliphatics C5-C35 Aliphatics >C35-44	mg/kg mg/kg mg/kg							<1				<1	<1			
Aromatics >C5-C7 Aromatics C6-C7 Aromatics >C7-C8	mg/kg mg/kg mg/kg							<0.1				<0.1	<0.1			
Aromatics >EC8-EC10 Aromatics >EC10-EC12 Aromatics >EC12-EC16	mg/kg mg/kg mg/kg							<0.1 <1 <1				<0.1 <1 <1	<0.1 <1 <1			
Aromatics >EC16-EC21 Aromatics >EC21-EC35 Total Aromatics C6-C35	mg/kg mg/kg mg/kg							<1				<1	<1			
Aromatics >C35-44 Total Aliphatic TPH Total Aromatic TPH	mg/kg mg/kg mg/kg							<1 <5 <5				<1 <5 <5	<1 <5 <5			
TPH (Aliphatics and Aromatics C5-C35) Total petroleum hydrocarbons PAH	mg/kg ug/kg							<10				<10	<10			
Acenaphthene Acenaphthylene Anthracene	mg/kg mg/kg mg/kg	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	1.9 0.56 1.4	2.6 0.83 0.99	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1
Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene	mg/kg mg/kg mg/kg	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	0.43 0.54 0.84	<0.1 <0.1 <0.1	2.9 2.4 4.5	1.7 1.7 2.3	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1
Benzo(ghi)perylene Benzo(k)fluoranthene Chrysene	mg/kg mg/kg mg/kg	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	0.49 0.28 0.8	<0.1 <0.1 <0.1	1.9 1.6 3.6	1.6 0.44 1.9	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1
Dibenzo(ah)anthracene Fluoranthene Fluorene	mg/kg mg/kg mg/kg	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 0.82 <0.1	<0.1 <0.1 <0.1	0.49 6.1 2.1	0.25 4.5 2.7	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1
Indeno(123cd)pyrene Naphthalene Phenanthrene	mg/kg mg/kg mg/kg	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	0.48 <0.1 <0.1	<0.1 <0.1 <0.1	1.4 1.7 4.1	0.71 1.8 4.6	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1
Pyrene PAH 16 Total VOCs	mg/kg mg/kg	<0.1	<0.1 <2	<0.1	<0.1 <2	0.87 5.6	<0.1 <2	4.7	3.8	<0.1 <2	<0.1	<0.1	<0.1 <2	<0.1	<0.1 <2	<0.1
1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,2-Trichloroethane	ug/kg ug/kg ug/kg															
1,1-Dichloroethane 1,1-Dichloroethene	ug/kg ug/kg ug/kg															
1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene	ug/kg ug/kg ug/kg ug/kg															
1,2,4-Trianobertzene 1,2-Dibromo-3-Chloropropane 1,2-Dibromoethane	ug/kg ug/kg ug/kg															
1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane	ug/kg ug/kg ug/kg															
1,3,5-Trimethylbenzene 1,3-Dichlorobenzene 1,3-Dichloropropane	ug/kg ug/kg ug/kg															
1,4-Dichlorobenzene 2,2-Dichloropropane 2-Chlorotoluene	ug/kg ug/kg ug/kg															
4-Chlorotoluene 4-Isopropyltoluene Bromobenzene	ug/kg ug/kg ug/kg															
Bromochloromethane Bromodichloromethane Bromoform	ug/kg ug/kg ug/kg															
Bromomethane Carbon Disulphide Chlorobenzene	ug/kg ug/kg ug/kg															
Chloroethane Chloroethene Chloroform	ug/kg ug/kg ug/kg															
Chloromethane cis-1,2-Dichloroethene cis-1,3-Dichloropropene	ug/kg ug/kg ug/kg															
Dibromochloromethane Dibromomethane Dichlorodifluoromethane	ug/kg ug/kg ug/kg															
Dichloromethane Hexachlorobutadiene (HCBD) Isopropylbenzene	ug/kg ug/kg ug/kg															
n-Butylbenzene n-propylbenzene Sec-Butylbenzene	ug/kg ug/kg ug/kg															
Styrene Tert-Butylbenzene Tetrachloroethene	ug/kg ug/kg ug/kg															
Tetrachloromethane (Carbon Tetra Chloric trans-1,2-Dichloroethene trans-1,3-Dichloropropene	ug/kg ug/kg ug/kg															
Tribromomethane Trichloroethene Trichlorofluoromethane	ug/kg ug/kg ug/kg															
Vinyl Chloride SVOCs 2,4,5-Trichlorophenol	ug/kg mg/kg															
2,4,6-Trichlorophenol 2,4-Dirchlorophenol 2,4-Dimethylphenol 2,4-Dimitrotoluene	mg/kg mg/kg mg/kg															
2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Chloronaphthalene 2-Chlorophenol	mg/kg mg/kg mg/kg															
2-Chlorophenol 2-Methyl-4,6-Dinitrophenol 2-Methylnaphthalene 2-Methylphenol	mg/kg mg/kg mg/kg mg/kg															
2-Methylphenol 2-Nitroaniline 2-Nitrophenol 3-Nitroaniline	mg/kg mg/kg															
3-Nitroaniline 4-Bromophenyl Phenyl Ether 4-Chloro-3-Methylphenol 4-Chloroaniline	mg/kg mg/kg mg/kg mg/kg															
4-Chlorophenyl Phenyl Ether 4-Methylphenol 4-Nitroaniline	mg/kg mg/kg mg/kg															
4-Nitrophenol Azobenzene Bis(2-chloroethoxy)methane	mg/kg mg/kg mg/kg															
Bis(2-chloroethyl)ether Bis(2-chloroisopropyl)ether Bis(2-ethylhexyl)phthalate	mg/kg mg/kg mg/kg															
Butylbenzylphthalate Carbazole Dibenzofuran	mg/kg mg/kg mg/kg															
Diethylphthalate Dimethylphthalate Di-N-Butyl Phthalate	mg/kg mg/kg mg/kg															
Di-N-Octyl Phthalate Hexachlorobenzene (HCB) Hexachlorocyclopentadiene	mg/kg mg/kg mg/kg															
Hexachlorocyclopentagiene Hexachloroethane Isophorone Nitrobenzene	mg/kg mg/kg mg/kg mg/kg															
N-Nitroso-Di-N-Propylamine	···o/ "b	1														

Screening Values and Assessment

Exceeds S4ULs Criteria

Green Laboratory detection level higher than screening criterion

Not applicable Insufficient sample numbers to undertake 95UCL statistical analysis Chromium VI criteria used Elemental Mercury criteria used No S4ULs available, C4SL used instead

1	No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	Selected S4ULs Criteria	No. Data Exceeding S4ULs Criteria
1					BH411 @ 1.55mbGL	170	0
15					BH411 @ 1.55mbGL		0
15	15	15	120	31	BH411 @ 6.05mbGL	33	0 13
Column	15	15	110	14	BH411 @ 5.55mbGL	1300	0
10	0	0	None > LOD 52	None > LOD			0
15					BH411 @ 6.05mbGL	5000	0
S			None > LOD				15
1					BH411 @ 6.05mbGL		0
Column	0	0	None > LOD 3	None > LOD 0.92	BH411 @ 5.55mbGL		0
	0	0	None > LOD	None > LOD	BH411 @ 6.05mbGL	6-9	0
S	0	0	None > LOD	None > LOD		0.24	
1		0				440 440	0
2	0	0	None > LOD	None > LOD		440	0
3	3	0	None > LOD None > LOD	None > LOD None > LOD		56000	0
4 0 Non-100 Non-100 Non-100 0 0 0 0 0 0 0 0 0	3	0	None > LOD	None > LOD		5900	0
4 0 Non-100 Non-100 Non-100 0 0 0 0 0 0 0 0 0			None > LOD None > LOD				
A	4	0	None > LOD	None > LOD		10000	0
3	4	0	None > LOD None > LOD	None > LOD None > LOD		7800 3200	0
3	3	0	None > LOD None > LOD	None > LOD None > LOD		2000 9700	0
3	3	0	None > LOD None > LOD	None > LOD None > LOD		450000	0
O	3	0	None > LOD None > LOD	None > LOD None > LOD		26000	0
1	3	0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		7800 56000	0
3	3	0	None > LOD None > LOD	None > LOD None > LOD		9200 10000	0
3	3 0	0	None > LOD None > LOD	None > LOD None > LOD		7800	0
3 0 None 100 None 100 0 0 0 0 1 1 1 1 1	3	0	None > LOD None > LOD	None > LOD None > LOD		/800	3
15	3	0	None > LOD	None > LOD			3
15	15	2	0.83	0.56	BH411 @ 5.55mbGL	29000	0
15	15	3	2.4	0.54	BH411 @ 6.05mbGL BH411 @ 6.05mbGL	11	0
15	15 15	3	1.9 1.6	0.49 0.28	BH411 @ 6.05mbGL BH411 @ 6.05mbGL	1400 370	0
15 3	15 15	2	0.49 6.1	0.25 0.82	BH411 @ 6.05mbGL BH411 @ 6.05mbGL	1.1 6300	0
15 3	15 15	3	1.4 1.8	0.48 1.7	BH411 @ 6.05mbGL BH411 @ 5.55mbGL	150 190	0
O	15	3	4.7	0.87	BH411 @ 6.05mbGL		0
O							
O	0	0	None > LOD	None > LOD			0
O	0	0	None > LOD None > LOD	None > LOD None > LOD		102	0
O	0	0	None > LOD None > LOD	None > LOD None > LOD			0
O	0	0	None > LOD None > LOD	None > LOD None > LOD			0
O	0	0	None > LOD None > LOD	None > LOD None > LOD			0
O	0	0	None > LOD	None > LOD			0
O	0	0	None > LOD None > LOD	None > LOD None > LOD			0
O	0	0	None > LOD None > LOD	None > LOD None > LOD			0
0	0	0	None > LOD	None > LOD			0
0	0	0	None > LOD None > LOD	None > LOD None > LOD			0
0 0 0 None > LOD None > LOD None > LOD 0 0 0 None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LO	0	0	None > LOD None > LOD	None > LOD None > LOD		0.059	0
0 0 0 None > LOD None > LOD None > LOD 0 0 0 0 None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None >	0	0	None > LOD None > LOD	None > LOD None > LOD		99	0
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0 0 0 None > 100 None > 100 None > 100 0 0 0 None > 100 0 0 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None > 100 None	0	0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		31	0
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0 0 None>LOD None>LOD 0 0 None>LOD 0 0	0	0	None > LOD None > LOD	None > LOD None > LOD		30	0
U None>LOU None>LOU 110 0	0	0	None > LOD None > LOD	None > LOD None > LOD		2	0
	0	0	None > LOD	None > LOD	-	110	0

M4CAN Soil Analysis Results & Screening Assessment Allignment outside of CL sites - chainage +8,900 to +11,850 16/07/2015

16/07/2015		111001104	WSRU01	WSRU01	111001104		111001100	111001100	
Sample Reference Specimen Depth (m) OD Level (m)		WSRU01 0.31 - 0.6 2.35	1.3 - 1.6 1.36	WSRU01 2.3 - 2.6 0.36	WSRU01 3.3 - 3.6 -0.64	WSRU02 0.31 - 0.6 2.16	WSRU02 1.3 - 1.6 1.17	WSRU02 2.3 - 2.6 0.17	WSRU02 3.3 - 3.6 -0.83
Sample Type Geology Code	Units	ES ALUV	ES ALUV	ES ALUV	ES ALUV	ES ALUV	ES ALUV	ES ALUV	ES ALUV
Cluster Code		2008	2008	2008	2008	2008	2008	2008	2008
Inorganics Antimony Arsenic	mg/kg mg/kg	4.1 22	5 28	2.7 13	<1.5 <3	3.1 10	3.3 12	2.7 10	4.7 26
Barium Beryllium	mg/kg mg/kg	92 0.8	120 0.7	64 0.8	26 <0.4	81 0.7	83 0.9	55 0.8	66 0.7
Boron Boron Water Soluble Cadmium	mg/kg mg/kg mg/kg	12 0.3	8.4	9.1	<3.5 <0.3	9.5	11	7 <0.3	8.4 <0.3
Chromium Copper	mg/kg mg/kg	40 31	46 40	36 21	13 7	38 30	48 38	34 20	35 15
Iron Lead Mercury	mg/kg mg/kg	29000 51 <0.6	30000 78 0.8	35000 27 <0.6	7 <0.6	30000 63 <0.6	34000 82 <0.6	35000 25 <0.6	31000 14 <0.6
Molybdenum Nickel	mg/kg mg/kg mg/kg	<0.6	<0.6 36	1.1	<0.6 12	<0.6 <0.6 28	<0.6	0.9	0.6
Selenium Vanadium	mg/kg mg/kg	<3 41	<3 41	<3 48	<3 16	<3 44	<3 51	<3 46	<3 43
Zinc Cyanide (total) Cyanide (free)	mg/kg mg/kg mg/kg	240 <1	290 <1	140 <1	43 <1	240 <1	300 <1	130	120
Ammoniacal Nitrogen as N Other	mg/kg	75	70	40	<15	99	110	35	37
Asbestos Presence Screen Asbestos Identification	None %	0	0	0	0	0	0	0	0
Loss on Ignition Total Organic Carbon pH Value	% pH Units	6.8 1.9 8.19	6.4 6.2 8.3	3.7 2.1 8.52	1.4 0.4 8.28	6.7 2.7 8.2	7.2 2.9 8.34	3.6 1.5 8.54	4.3 2.4 8.44
Material >2mm Sulphate (soluble)	% g/l	0.20	0.0	0.02	0.20			0.01	
Calorific Value Organics PCBs (vs Aroclor 1254)	MJ/kg	0.10	2.2	0.005	0.005	0.01			0.005
Phenols Monohydric Phenol	mg/kg mg/kg mg/kg	0.18 <0.15 <0.1	<0.15 <0.1	<0.035 <0.15 <0.1	<0.035 <0.15 <0.1	0.21 <0.15 <0.1	0.74	<0.035 <0.15 <0.1	<0.035 <0.15 <0.1
Phenols (total) BTEX	mg/kg								
GRO (C4-C12) MTBE	mg/kg mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene Toluene Ethyl benzene	mg/kg mg/kg mg/kg	<0.009 <0.005 <0.004	<0.009 <0.005 <0.004	<0.009 <0.005 <0.004	<0.009 0.006 <0.004	<0.009 <0.005 <0.004	<0.009 <0.005 <0.004	<0.009 <0.005 <0.004	<0.009 <0.005 <0.004
m & p Xylene o Xylene	mg/kg mg/kg	<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
TPH >C6-C8.	mg/kg								
TPH >C8-C10. TPH >C10-C12. TPH >C12-C16.	mg/kg mg/kg mg/kg								
TPH >C16-C21. TPH >C21-C35.	mg/kg mg/kg								
Aliphatics C5-C6 Aliphatics >C6-C8 Aliphatics >C8-C10	mg/kg mg/kg mg/kg	<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 <0.01	<0.01 <0.01 <0.01
Aliphatics >C10-C12 Aliphatics >C12-C16	mg/kg mg/kg	<0.01 <0.1	<0.01 7.6	<0.01 1.9	<0.01 <0.1	<0.01 <0.1	<0.01 5.2	<0.01 <0.1	<0.01 <0.1
Aliphatics >C16-C21 Aliphatics >C21-C35	mg/kg mg/kg	5.2 69	49 210	3.9 16	7.8 15	13 88	20 130	<0.1 8.1	<0.1 <0.1
Total Aliphatics C5-C35 Aliphatics >C35-44 Aromatics >C5-C7	mg/kg mg/kg mg/kg	74	260	22	23	100	160	8.1	<0.1
Aromatics C6-C7 Aromatics >C7-C8	mg/kg mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC8-EC10 Aromatics >EC10-EC12 Aromatics >EC12-EC16	mg/kg mg/kg	<0.01 <0.01 0.41	<0.01 <0.01 9.6	<0.01 <0.01 <0.1	<0.01 <0.01 <0.1	<0.01 <0.01 <0.1	<0.01 <0.01 0.72	<0.01 <0.01 <0.1	<0.01 <0.01 0.13
Aromatics >EC16-EC21 Aromatics >EC21-EC35	mg/kg mg/kg mg/kg	3.3 80	26 190	<0.1 14	<0.1 <0.1	4.4 44	7.5 73	1.9 17	0.19 38
Total Aromatics C6-C35 Aromatics >C35-44	mg/kg mg/kg	83	220	14	<0.1	49	81	18	38
Total Aliphatic TPH Total Aromatic TPH TPH (Aliphatics and Aromatics C5-C35)	mg/kg mg/kg mg/kg	160	490	36	23	150	240	27	38
Total petroleum hydrocarbons PAH	mg/kg		450						
Acenaphthene Acenaphthylene	mg/kg mg/kg	0.073	0.26	0.021	<0.014	0.075	0.097	0.029	0.021
Anthracene Benz(a)anthracene Benzo(a)pyrene	mg/kg mg/kg mg/kg	0.16 0.5 0.5	0.68 1.6 1.4	0.039 0.1 0.072	<0.009 0.026 <0.012	0.19 0.59 0.57	0.2 0.61 0.62	0.062 0.12 0.09	0.052 0.18 0.12
Benzo(b)fluoranthene Benzo(ghi)perylene	mg/kg mg/kg	0.61 0.38	1.6 0.99	0.095 0.048	0.018 <0.01	1.1 0.35	1.1 0.43	0.13 0.048	0.15 0.062
Benzo(k)fluoranthene Chrysene Dibenzo(ah)anthracene	mg/kg mg/kg	0.49 0.6 0.13	1.1 1.7 0.43	0.057 0.11 0.013	<0.025 0.018 <0.008	0.4 0.73 0.097	0.48 0.73 0.12	0.077 0.13 0.017	0.071 0.15 0.025
Fluoranthene Fluorene	mg/kg mg/kg mg/kg	0.13 0.88 0.16	2.8	0.013 0.038	<0.008 <0.025 <0.012	0.097	1.1	0.23	0.24
Indeno(123cd)pyrene Naphthalene	mg/kg mg/kg	0.36 0.22	0.86 0.85	0.031 0.065	<0.011 0.016	0.31 0.22	0.41 0.28	0.04 0.084	0.057 0.05
Phenanthrene Pyrene PAH 16 Total	mg/kg mg/kg mg/kg	6.3 0.55 0.65	19 1.8 2.1	0.12 0.13	0.13 0.031 0.024	7.2 0.61 0.76	7.9 0.66 0.81	1.4 0.15 0.17	0.11 0.18
VOCs 1,1,1,2-Tetrachloroethane	ug/kg	<10	<10	<10	<10	<10	<10	<10	<10
1,1,2,2-Tetrachloroethane 1,1,1-Trichloroethane	ug/kg ug/kg	<10 <7 <10	<10 <7 <10	<10 <7 <10	<10 <7 <10	<10 <7 <10	<10 <7 <10	<10 <7 <10	<10 <7 <10
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene	ug/kg ug/kg ug/kg	<8 <10	<8 <10	<8 <10	<8 <10	<8 <10	<8 <10	<8 <10	<8 <10
1,1-Dichloropropene 1,2,3-Trichlorobenzene	ug/kg ug/kg	<11 <11	<11 <11	<11 <11	<11 <11	<11 <11	<11 <11	<11 <11	<11 <11
1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	ug/kg ug/kg ug/kg	<17 <6 <9	<17 <6 <9	<17 <6 <9	<17 <6 <9	<17 <6 <9	<17 <6 <9	<17 <6 <9	<17 <6 <9
1,2-Dibromo-3-Chloropropane 1,2-Dibromoethane	ug/kg ug/kg	<14 <12	<14 <12	<14 <12	<14 <12	<14 <12	<14 <12	<14 <12	<14 <12
1,2-Dichlorobenzene 1,2-Dichloroethane	ug/kg ug/kg	<12 <5	<12 <5	<12 <5	<12 <5	<12 <5 <12	<12 <5	<12 <5	<12 <5 <12
1,2-Dichloropropane 1,3,5-Trimethylbenzene 1,3-Dichlorobenzene	ug/kg ug/kg ug/kg	<12 <8 <6	<12 <8 <6	<12 <8 <6	<12 <8 <6	<8 <6	<12 <8 <6	<12 <8 <6	<12 <8 <6
1,3-Dichloropropane 1,4-Dichlorobenzene	ug/kg ug/kg	<7 <5	<7 <5	<7 <5	<7	<7 <5	<7 <5	<7 <5	<7 <5
2.2-Dichloropropane 2-Chlorotoluene 4-Chlorotoluene	ug/kg ug/kg ug/kg	<12 <9 <12	<12 <9 <12	<12 <9 <12	<12 <9 <12	<12 <9 <12	<12 <9 <12	<12 <9 <12	<12 <9 <12
4-isopropyitoluene Bromobenzene	ug/kg ug/kg	<11 <10	<11 <10	<11 <10	<11 <10	<11 <10	<11 <10	<11 <10	<11 <10
Bromochloromethane Bromodichloromethane	ug/kg ug/kg	<14 <7	<14 <7	<14 <7	<14 <7	<14 <7	<14 <7	<14 <7	<14 <7
Bromoform Bromomethane Carbon Disulphide	ug/kg ug/kg ug/kg	<10 <13 <7	<10 <13 <7	<10 <13 46	<10 <13 48	<10 <13 <7	<10 <13 <7	<10 <13 46	<10 <13 25
Chlorobenzene Chloroethane	ug/kg ug/kg	<5 <14	<5 <14	<5 <14	<5 <14	<5 <14	<5 <14	<5 <14	<5 <14
Chloroethene Chloroform Chloromethane	ug/kg ug/kg	<8 <7	<8 <7	<8 <7	<8 <7	<8 <7	<8 <7	<8 <7	<8 <7
Chloromethane cis-1,2-Dichloroethene cis-1,3-Dichloropropene	ug/kg ug/kg ug/kg	<5 <14	<5 <14	<5 <14	<5 <14	<5 <14	<5 <14	<5 <14	<5 <14
Dibromochloromethane Dibromomethane	ug/kg ug/kg	<13 <9	<13 <9	<13 <9	<13 <9	<13 <9	<13 <9	<13 <9	<13 <9
Dichlorodifluoromethane Dichloromethane Hexachlorobutadiene (HCBD)	ug/kg ug/kg ug/kg	<4 <10 <12	<4 <10 <12	<4 <10 <12	<4 <10 <12	<4 <10 <12	<4 <10 <12	<4 <10 <12	<4 <10 <12
Isopropylbenzene n-Butylbenzene	ug/kg ug/kg	<5 <10	<5 <10	<5 <10	<5 <10	<5 <10	<5 <10	<5 <10	<5 <10
n-propylbenzene Sec-Butylbenzene Styrene	ug/kg ug/kg ug/kg	<11 <10 <10	<11 <10 <10	<11 <10 <10	<11 <10 <10	<11 <10 <10	<11 <10 <10	<11 <10 <10	<11 <10 <10
Tert-Butylbenzene Tetrachloroethene	ug/kg ug/kg	<12 <5	<12 <5	<12 <5	<12 <5	<12 <5	<12 <5	<12 <5	<12 <5
Tetrachloromethane (Carbon Tetra Chlori trans-1,2-Dichloroethene trans-1,3-Dichloropropene	ug/kg ug/kg	<14 <11 <14	<14 <11 <14	<14 <11 <14	<14 <11 <14	<14 <11 <14	<14 <11 <14	<14 <11 <14	<14 <11 <14
Tribromomethane Trichloroethene	ug/kg ug/kg ug/kg	<9	<9	<9	<9	<9	<9	<9	<9
Trichlorofluoromethane Vinyl Chloride	ug/kg ug/kg	<6 <10	<6 <10	<6 <10	<6 <10	<6 <10	<6 <10	<6 <10	<6 <10
SVOCs 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	mg/kg mg/kg	<0.1 <0.1	<0.1 <0.1	<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 2,4-Dimethylphenol	mg/kg mg/kg	<0.1 <0.1	<0.1 <0.1	<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-Dinitrotoluene 2,6-Dinitrotoluene 2-Chloronaphthalene	mg/kg mg/kg mg/kg	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<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 2-Methyl-4,6-Dinitrophenol	mg/kg mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Methylnaphthalene 2-Methylphenol	mg/kg mg/kg	<0.1 <0.1	<0.1 <0.1	<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-Nitroaniline 2-Nitrophenol 3-Nitroaniline	mg/kg mg/kg mg/kg	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<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-Bromophenyl Phenyl Ether 4-Chloro-3-Methylphenol	mg/kg mg/kg	<0.1 <0.1	<0.1 <0.1	<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-Chloroaniline 4-Chlorophenyl Phenyl Ether 4-Methylphenol	mg/kg mg/kg	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<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 4-Nitroaniline 4-Nitrophenol	mg/kg mg/kg mg/kg	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1
Azobenzene Bis(2-chloroethoxy)methane	mg/kg mg/kg	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1
Bis(2-chloroethyl)ether Bis(2-chloroisopropyl)ether	mg/kg mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-ethylhexyl)phthalate Butylbenzylphthalate Carbazole	mg/kg mg/kg mg/kg	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	0.14 <0.1 <0.1	<0.1 <0.1 <0.1	0.23 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1
Dibenzofuran Diethylphthalate	mg/kg mg/kg	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1
Dimethylphthalate Di-N-Butyl Phthalate Di-N-Octyl Phthalate	mg/kg mg/kg	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1
Di-N-Octyl Phthalate Hexachlorobenzene (HCB) Hexachlorocyclopentadiene	mg/kg mg/kg mg/kg	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1	<0.1 <0.1 <0.1
Hexachloroethane Isophorone	mg/kg mg/kg	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1
Nitrobenzene N-Nitroso-Di-N-Propylamine	mg/kg mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
N-Nitroso-Di-N-Propylamine Pentachlorophenol (PCP)	mg/kg mg/kg	<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/A Not applicable
Chromium VI criteria used
Elemental Mercury criteria used
Red No SAULs available, C4SL used instead

No.	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	Selected S4ULs Criteria	No. Data Exceed
nalyses 8	7	5	2.7	WSRU01 @ 1.36mbGL	Lincild	1
8	7 8	28 120	10 26	WSRU01 @ 1.36mbGL WSRU01 @ 1.36mbGL	170	0
8	7	0.9 None > LOD	0.7 None > LOD	WSRU02 @ 1.17mbGL	12 46000	0
8	7	12	7	WSRU01 @ 2.35mbGL WSRU01 @ 1.36mbGL	190	1 0
8	8	48 40	13 7	WSRU02 @ 1.17mbGL WSRU01 @ 1.36mbGL	33 44000	7
8	8	35000 82	12000 7	WSRU01 @ 0.36mbGL / WSRU02 @ 0.17mbGL WSRU02 @ 1.17mbGL	1300	0
8	1 3	0.8 1.1	0.8	WSRU01 @ 1.36mbGL WSRU01 @ 0.36mbGL	30	0 5
8	8	38 None > LOD	12 None > LOD	WSRU02 @ -0.83mbGL	980 1800	0
8	8	51 300	16 43	WSRU02 @ 1.17mbGL WSRU02 @ 1.17mbGL	5000 170000	0
8	0	None > LOD	None > LOD			8
8	7	110	35	WSRU02 @ 1.17mbGL		1
8	8	0	0	WSRU01 @ 2.35mbGL		0
8	0 8	None > LOD 7.2	None > LOD 1.4	WSRU02 @ 1.17mbGL		0
8	8	6.2 8.54	0.4 8.19	WSRU01 @ 1.36mbGL WSRU02 @ 0.17mbGL	6-9	0
0	0	None > LOD None > LOD	None > LOD None > LOD			0
0	0	None > LOD	None > LOD			0
8	4	2.2 0.74	0.18 0.74	WSRU01 @ 1.36mbGL WSRU02 @ 1.17mbGL	0.24 440	2
8	0	None > LOD None > LOD	None > LOD	WSROUZ @ 1.17HIDGE	440 440	0
					440	
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD 0.006	None > LOD 0.006	WSRU01 @ -0.64mbGL	27 56000	0
8	0	None > LOD None > LOD	None > LOD None > LOD		5700 5900	0
8	0	None > LOD	None > LOD		6600	0
0	0	None > LOD None > LOD	None > LOD None > LOD		7800 2000	0
0	0	None > LOD None > LOD	None > LOD None > LOD		9200 10000	0
0	0	None > LOD None > LOD	None > LOD None > LOD		7600 7800	0
8	0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		7800 3200 7800	0
8	0	None > LOD	None > LOD		2000	0
8	3	7.6	None > LOD 1.9	WSRU01 @ 1.36mbGL	9700 25000	0
8	7	49 210	3.9 8.1	WSRU01 @ 1.36mbGL WSRU01 @ 1.36mbGL	450000 450000	0
0	7	None > LOD	8.1 None > LOD	WSRU01 @ 1.36mbGL	450000	0
8	0	None > LOD None > LOD	None > LOD None > LOD		26000 7800	0
0	0	None > LOD None > LOD	None > LOD None > LOD		56000 3500	0
8	0	None > LOD 9.6	None > LOD 0.13	WSRU01 @ 1.36mbGL	9200 10000	0
8	6 7	26 190	0.19	WSRU01 @ 1.36mbGL WSRU01 @ 1.36mbGL	7600 7800	0
8	7	220 None > LOD	14 None > LOD	WSRU01 @ 1.36mbGL	7800	1 0
0	0	None > LOD None > LOD	None > LOD None > LOD			0
8	8	490 None > LOD	23 None > LOD	WSRU01 @ 1.36mbGL		0
8	7	0.26	0.021	WSRU01 @ 1.36mbGL	29000	0
8	7	0.18	0.008	WSRU01 @ 1.36mbGL	29000	0
8	7 8	0.68 1.6	0.039	WSRU01 @ 1.36mbGL WSRU01 @ 1.36mbGL	150000 49	0
8	7 8	1.4	0.072	WSRU01 @ 1.36mbGL WSRU01 @ 1.36mbGL	11 13	0
8	7	0.99 1.1	0.048 0.057	WSRU01 @ 1.36mbGL WSRU01 @ 1.36mbGL	1400 370	0
8	8 7	1.7 0.43	0.018 0.013	WSRU01 @ 1.36mbGL WSRU01 @ 1.36mbGL	93 1.1	0
8	7	2.8 0.6	0.17 0.035	WSRU01 @ 1.36mbGL WSRU01 @ 1.36mbGL	6300 20000	0
8	7 8	0.86 0.85	0.031 0.016	WSRU01 @ 1.36mbGL WSRU01 @ 1.36mbGL	150 190	0
8	8 8	19	0.13	WSRU01 @ 1.36mbGL WSRU01 @ 1.36mbGL	6200 15000	0
8	8	2.1	0.024	WSRU01 @ 1.36mbGL WSRU01 @ 1.36mbGL	25000	0
8	0	None > LOD	None > LOD			8
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD None > LOD	None > LOD None > LOD		102	0 8
8	0	None > LOD None > LOD	None > LOD None > LOD		220	0 8
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD None > LOD	None > LOD None > LOD			8 8
8	0	None > LOD None > LOD	None > LOD			8 8
8	0	None > LOD	None > LOD None > LOD			8
8	0	None > LOD None > LOD	None > LOD			8
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0 4	None > LOD 48	None > LOD 25	WSRU01 @ -0.64mbGL	11	8
8	0	None > LOD None > LOD	None > LOD None > LOD		56	0 8
8	0	None > LOD	None > LOD		0.059 99	0
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD None > LOD	None > LOD None > LOD		31	8
8	0	None > LOD None > LOD	None > LOD None > LOD			8 8
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD	None > LOD			8
8	0	None > LOD	None > LOD		19	0
8	0	None > LOD None > LOD	None > LOD		2.9	0 8
8	0	None > LOD	None > LOD		4.2	0
8	0	None > LOD None > LOD	None > LOD None > LOD		1.2	0 8
8	0	None > LOD	None > LOD		0.059	0
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD	None > LOD			0
8	0	None > LOD None > LOD	None > LOD None > LOD			8 8
8	0	None > LOD	None > LOD			8
8	0	None > LOD None > LOD	None > LOD			8
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD	None > LOD			8
8	2	0.23 None > LOD	0.14 None > LOD	WSRU02 @ 1.17mbGL		6
8	0	None > LOD	None > LOD			8
8	0	None > LOD None > LOD	None > LOD			8 8
8	0	None > LOD None > LOD	None > LOD None > LOD			8
8	0	None > LOD None > LOD	None > LOD None > LOD		30	8
	0	None > LOD	None > LOD		ļ	8
8	0	None > LOD	None > LOD			8
8	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD			8 8 8

M4CAN Soil Analysis Results & Screening Assessment Allignment outside of CL sites - chainage +11,850 to +19,650 16/07/2015

16/07/2015				ı																			
Sample Reference		SBHJ02CP	SBHJ02CP	SBHJ03CP	ЅВНЈ03СР	BH502	BH502	BH503	BH503	BH503	BH507	BH507	BH510	BH534	BH535	BH535	BH536A	TP503	TP515	TP516	TP516	TP517	TP517
Specimen Depth (m)		0.3	5	0.3	1	0.2 - 0.5	0.5 - 1	0.2 - 0.3	0.5 - 0.7	0.9 - 1.1	0.2 - 0.3	0.6 - 0.8	0 - 0.3	0.3 - 0.5	0.3 - 0.5	0.5 - 0.9	0.4 - 0.6	1	1	0 - 0.2	0.2 - 0.4	0 - 0.1	0.7 - 0.9
OD Level (m)		5.03	0.33	5.07	4.37	6	5.7	5.95	5.65	5.25	5.25	4.85	5.45	4.95	4.85	4.65	4.15	4.6	4.25	5.15	4.95	4.45	3.75
Sample Type		ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Geology Code	Units	ALLUV	PEAT	TOPSOIL	ALLUV	CLAY	CLAY	MG	MG	CLAY	MG	MG	CLAY	CLAY	CLAY	CLAY	MG	CLAY	CLAY	CLAY	CLAY	MG	CLAY
	05																						
Cluster Code		2008 GI	2008 GI	2008 GI	2008 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI
Inorganics																							
Antimony	mg/kg	2.4	<1.5	2.6	2.4																		
Arsenic	mg/kg	5	<3	6	5	19	21	22	10	19	19	17	14	11	20	19	24	33	10	8.3	11	<1	2.7
Barium	mg/kg	190	<6	100	53																		
Beryllium	mg/kg	0.9	<0.4	1.3	0.7																		
Boron	mg/kg					1.5	1.2	2.1	1.8	1.7	0.82	1.1	2.8	1.9	1.8	1.2	1.1	1	0.52	2.1	0.86	2	0.89
Boron Water Soluble	mg/kg	<3.5	37	<3.5	<3.5																		
Cadmium	mg/kg	<0.3	<0.3 <4.5	<0.3 44	<0.3	0.17	0.15 56	0.43	<0.1	<0.1 45	0.39	<0.1 35	0.48	<0.1 40	<0.1	<0.1	0.52	0.24	<0.1	<0.1	<0.1	0.19	2.5
Chromium Copper	mg/kg mg/kg	37 14	<4.5 <6	16	31 7	54 27	15	49 46	30 12	14	15	6.5	54 20	11	52 22	55 16	20 11	110 16	18 6.3	27 12	32 7.5	3.8 4.6	51 49
Iron	mg/kg	31000	950	35000	32000	- 27	13	40	12	14	13	0.5	20	- 11	- 22	10	- 11	10	0.5	12	7.5	4.0	43
Lead	mg/kg	46	<2	42	25	46	38	100	28	40	35	16	52	27	46	27	33	89	12	39	21	8	120
Mercury	mg/kg	<0.6	<0.6	<0.6	<0.6	<0.1	<0.1	0.12	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	<0.1	<0.1	<0.1	<0.1	0.35
Molybdenum	mg/kg	<0.6	<0.6	<0.6	<0.6																		
Nickel	mg/kg	32	<0.9	31	29	36	33	43	29	37	35	34	34	25	34	44	13	56	19	20	26	1.9	28
Selenium	mg/kg	<3	<3	<3	<3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.21	0.44	0.24	<0.2	<0.2	<0.2	0.56	<0.2	<0.2	0.5
Vanadium	mg/kg	49	1.6	54	43	440		***	7.0	400	430		450	400	400	450	42	470	4.5	400	70	30	300
Zinc Cvanide (total)	mg/kg	130 <1	4.7 <1	110 <1	110	110 <0.5	99 <0.5	160 0.5	76 <0.5	100 <0.5	130 <0.5	72 <0.5	150 <0.5	100 <0.5	180 <0.5	150 <0.5	43 <0.5	170 <0.5	45 <0.5	100 <0.5	70 <0.5	28 <0.5	260 <0.5
Cyanide (total) Cyanide (free)	mg/kg mg/kg	<.⊤	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ammoniacal Nitrogen as N	mg/kg mg/kg	<15	30	<15	21	~0.3	C.0.7	\U.J	\U.J	~0.3	~0.3	\U.J	\U.J	~0.3	~0.3	~0.3	~U.J	~0.3	~0.3	~0.3	~0.3	~0.3	~0.3
Other	·115/ Ng																						
Asbestos Presence Screen	None	0	0	0	0	0	0	0	0	0	0	0			0								
Asbestos Identification	%	-		-		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			<0.001								
Loss on Ignition	%	3.6	59		2.8																		
Total Organic Carbon	%	4	37		4.9												4.8						14
pH Value	pH Units	8.29	8.13	7.8	8.1	8.1	8	8.9	8	8	7.8	8.1	7.8	7.6	7.6	7.7	8.4	8	8.3	6.2	8.2	7.4	6.9
Material >2mm	%		-				-																
Sulphate (soluble) Calorific Value	g/l																						
	MJ/kg																						
Organics PCBs (vs Aroclor 1254)	mg/kg	<0.035	<0.035	<0.035	<0.035																		
Phenols Monohydric	mg/kg	<0.15	<0.15	<0.15	<0.15																		
Phenol	mg/kg	0		<0.1	<0.1			<0.5	<0.5														
Phenols	mg/kg							<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3			<0.3					<0.3	
BTEX																							
GRO (C4-C12)	mg/kg	<0.01	<0.01	<0.01	<0.01																		
MTBE	mg/kg	<0.01	<0.01	<0.01	<0.01			<0.001	<0.001														
Benzene	mg/kg	<0.009 <0.005	<0.009	<0.009	<0.009 <0.005			<0.001	<0.001 <0.001													<0.001	<0.001
Toluene Ethyl benzene	mg/kg mg/kg	<0.005	<0.005 <0.004	<0.005 <0.004	<0.005			<0.001 <0.001	<0.001													<0.001	<0.001 <0.001
m & p Xylene	mg/kg	<0.01	<0.01	<0.01	<0.01			<0.001	<0.001													<0.001	<0.001
o Xylene	mg/kg	< 0.01	< 0.01	<0.01	< 0.01			<0.001	<0.001													<0.001	<0.001
TPH																							
TPH >C6-C8.	mg/kg					<1	<1	<1	<1	<1	<1	<1			<1	<1							
TPH >C8-C10.	mg/kg					<1	<1	<1	<1	<1	<1	<1			<1	<1							
TPH >C10-C12.	mg/kg					<1	<1	<1	<1	<1	<1	<1			<1	<1							
TPH >C12-C16. TPH >C16-C21.	mg/kg mg/kg					<1 <1	<1	<1	<1	<1 <1	5.6 27	<1			<1	<1							
TPH >C21-C35.	mg/kg					<1	<1	<1	<1	<1	72	<1			<1	<1							
Aliphatics C5-C6	mg/kg	<0.01	<0.01	<0.01	<0.01																	<0.1	<0.1
Aliphatics >C6-C8	mg/kg	<0.01	<0.01	<0.01	<0.01																	<0.1	<0.1
Aliphatics >C8-C10	mg/kg	<0.01	<0.01	<0.01	<0.01																	<0.1	<0.1
Aliphatics >C10-C12	mg/kg	<0.01	<0.01	<0.01	<0.01																	<1	<1
Aliphatics >C12-C16	mg/kg	0.55	<0.1	0.78	0.14																	<1	<1
Aliphatics >C16-C21	mg/kg	1.9	<0.1	7	1																	<1	<1
Aliphatics >C21-C35	mg/kg	2.1	6.1	27	6																	<1	<1
Total Aliphatics C5-C35 Aliphatics >C35-44	mg/kg mg/kg	4.5	6.1	35	7.2		-															<1	<1
Aromatics >C5-7	mg/kg																					<0.1	<0.1
Aromatics C6-C7	mg/kg	<0.01	<0.01	<0.01	<0.01																		
Aromatics >C7-8	mg/kg																					<0.1	<0.1
Aromatics >EC8-EC10	mg/kg	<0.01	<0.01	<0.01	<0.01																	<0.1	<0.1
Aromatics >EC10-EC12	mg/kg	<0.01	<0.01	<0.01	<0.01																	<1	<1
Aromatics >EC12-EC16	mg/kg	0.35	<0.1	0.6	0.31																	<1	<1
Aromatics >EC16-EC21 Aromatics >EC21-EC35	mg/kg mg/kg	0.71 43	<0.1 110	3.1 31	0.7 11							 										<1	<1 <1
Total Aromatics C6-C35	mg/kg	44	110	35	12																	-71	~4
Aromatics >C35-44	mg/kg																					<1	<1
Total Aliphatic TPH	mg/kg																					<5	<5
Total Aromatic TPH	mg/kg																					<5	<5
TPH (Aliphatics and Aromatics C5-C35)	mg/kg	48	110	69	20																	.40	
Total petroleum hydrocarbons	mg/kg																					<10	<10
PAH Acenaphthene	ma/ka	0.056	<0.014	0.11	<0.014	0.41	0.18	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg mg/kg	0.056	<0.014	0.011	<0.014	0.41	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.035	<0.003	0.024	0.021	0.28	0.13	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene	mg/kg	0.087	0.022	0.42	0.053	2.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.55	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.25	<0.012	0.32	0.034	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
Benzo(b)fluoranthene	mg/kg	0.23	ļ	0.57	0.061	2.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.62	<0.01	0.22	0.032	0.91	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.095	<0.025	0.12	0.026	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene Dibenzo(ah)anthracene	mg/kg mg/kg	0.12 0.022	<0.01 <0.008	0.42 0.056	0.051 <0.008	3.1 0.18	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1	<0.1	0.44 <0.1	<0.1	<0.1 <0.1	<0.1 <0.1
Fluoranthene	mg/kg	0.022	<0.025	1.1	0.11	5	0.27	0.42	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.15	<0.1	0.17	0.29	<0.1	0.11	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.046	<0.012	0.15	0.02	0.5	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123cd)pyrene	mg/kg	0.21	0.062	0.19	0.023	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	mg/kg	0.26	<0.01	0.12	0.092	0.47	0.44	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.15	<0.021	0.91	0.093	5.3	0.27	0.39	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.31	<0.1	<0.1	0.35	<0.1	0.21	<0.1	<0.1	<0.1
Pyrene PALLIC Total	mg/kg	0.13	<0.022	0.81 5.7	0.089	4.6	0.39	0.36	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.21	0.31	<0.1	0.13	<0.1	<0.1	<0.1
PAH 16 Total	mg/kg	2.5	0.084	J 5./	0.71	29	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2

Screening Values and Assessment

Exceeds S4ULs Criteria

Green Laboratory detection level higher than screening criterion

Notes

N/A

Not applicable
IS

Insufficient sample numbers to undertake 95UCL statistical analysis Chromium VI criteria used
Elemental Mercury criteria used

Red

No S4ULs available, C4SL used instead

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	Selected S4ULs Criteria	No. Data Exceeding S4ULs Criteria
0	0	None > LOD	None > LOD			1
18	17	33	2.7	TP503 @ 4.6mbGL	170	0
0	0	None > LOD	None > LOD		42	1
0 18	0 18	None > LOD 2.8	None > LOD 0.52	BH510 @ 5.45mbGL	12 46000	0
0	0	None > LOD	None > LOD	81310 @ 3.4311002	40000	3
18	9	2.5	0.15	TP517 @ 3.75mbGL	190	0
18	18	110	3.8	TP503 @ 4.6mbGL	33	14
18 0	18 0	49 None > LOD	4.6 None > LOD	TP517 @ 3.75mbGL	44000	0
18	18	120	8	TP517 @ 3.75mbGL	1300	0
18	4	0.35	0.1	TP517 @ 3.75mbGL	30	0
0	0	None > LOD	None > LOD			4
18 18	18 5	56 0.56	1.9 0.21	TP503 @ 4.6mbGL TP516 @ 5.15mbGL	980 1800	0
0	0	None > LOD	None > LOD	11 510 @ 5.1511000	5000	0
18	18	260	28	TP517 @ 3.75mbGL	170000	0
18	1	0.5	0.5	BH503 @ 5.95mbGL		21
18 0	0	None > LOD None > LOD	None > LOD None > LOD			18 2
		None > LOD	NOTIC > LOD			
8	8	0	0	SBHJ02CP @ 5.03mbGL		0
8	0	None > LOD	None > LOD			8
0	0	None > LOD	None > LOD	CDUIDACD C C 22		0
2 18	2 18	14 8.9	4.8 6.2	SBHJ02CP @ 0.33mbGL BH503 @ 5.95mbGL	6-9	0
	1	3.5		2222 C 3.33202		0
						0
						0
0	0	None > LOD	None > LOD		0.24	0
0	0	None > LOD	None > LOD		440	0
2	0	None > LOD	None > LOD		440	0
9	0	None > LOD	None > LOD		440	0
0	0	None > LOD	None > LOD			4
2	0	None > LOD	None > LOD			6
4	0	None > LOD	None > LOD		27	0
4	0	None > LOD	None > LOD		56000	0
4	0	None > LOD None > LOD	None > LOD None > LOD		5700 5900	0
4	0	None > LOD	None > LOD		6600	0
		<u>'</u>				
9	0	None > LOD	None > LOD		7800	0
9	0	None > LOD None > LOD	None > LOD None > LOD		2000 9200	0
9	1	5.6	5.6	BH507 @ 5.25mbGL	10000	0
9	1	27	27	BH507 @ 5.25mbGL	7600	0
9	1	72	72	BH507 @ 5.25mbGL	7800	0
2	0	None > LOD None > LOD	None > LOD None > LOD		3200 7800	0
2	0	None > LOD	None > LOD		2000	0
2	0	None > LOD	None > LOD		9700	0
2	0	None > LOD	None > LOD		25000	0
2	0	None > LOD None > LOD	None > LOD None > LOD		450000 450000	0
0	0	None > LOD	None > LOD		450000	0
2	0	None > LOD	None > LOD		450000	0
2	0	None > LOD	None > LOD		26000	0
0	0	None > LOD	None > LOD		7800	0
2	0	None > LOD None > LOD	None > LOD None > LOD		56000 3500	0
2	0	None > LOD	None > LOD		9200	0
2	0	None > LOD	None > LOD		10000	0
2	0	None > LOD None > LOD	None > LOD None > LOD		7600 7800	0
					7800	0
0	0	None > LOD	None > LOD			
					7800	0
0	0 0 0	None > LOD	None > LOD		7800	0 2
0 2 2 2	0 0 0	None > LOD None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD None > LOD		7800	0 2 2
0 2 2 2 2 0	0 0 0 0	None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD		7800	0 2 2 0
0 2 2 2	0 0 0	None > LOD None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD None > LOD		7800	0 2 2
0 2 2 2 2 0 2	0 0 0 0 0 0	None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD	BH502 @ 6mbGL	29000	0 2 2 0 2
0 2 2 2 0 2 0 2	0 0 0 0 0 0 0	None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD	BH502 @ 6mbGL	29000 29000	0 2 2 0 2
0 2 2 2 0 2 18 18	0 0 0 0 0 0	None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD	BH502 @ 6mbGL BH502 @ 6mbGL	29000 29000 150000	0 2 2 0 2 0 2
0 2 2 2 0 2 0 2	0 0 0 0 0 0 0	None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD	BH502 @ 6mbGL	29000 29000	0 2 2 0 2
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0 2 2 2 2 0 2 2 18 18 18 18 18 18 18 18 18 18 18 18 18	0 0 0 0 0 0 0 0 1 1 2 2 2 1 1 1 1 1 1 2 2 2 7 7	None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD None > LOD	BH502 @ 6mbGL BH502 @ 6mbGL BH502 @ 6mbGL BH502 @ 6mbGL BH502 @ 6mbGL BH502 @ 6mbGL BH502 @ 6mbGL BH502 @ 6mbGL BH502 @ 6mbGL BH502 @ 6mbGL BH502 @ 6mbGL BH502 @ 6mbGL BH502 @ 6mbGL BH502 @ 6mbGL BH502 @ 6mbGL	29000 29000 150000 49 111 13 1400 370 93 1.1 6300 20000 150	0 2 2 0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Sample Reference		SBHJ02CP	SBHJ02CP	SBHJ03CP	SBHJ03CP	BH502	BH502	BH503	BH503	BH503	BH507	BH507	BH510	BH534	BH535	BH535	BH536A	TP503	TP515	TP516	TP516	TP517	TP517
Specimen Depth (m)		0.3	5	0.3	1	0.2 - 0.5	0.5 - 1	0.2 - 0.3	0.5 - 0.7	0.9 - 1.1	0.2 - 0.3	0.6 - 0.8	0 - 0.3	0.3 - 0.5	0.3 - 0.5	0.5 - 0.9	0.4 - 0.6	1	1	0 - 0.2	0.2 - 0.4	0 - 0.1	0.7 - 0.9
OD Level (m)		5.03	0.33	5.07	4.37	6	5.7	5.95	5.65	5.25	5.25	4.85	5.45	4.95	4.85	4.65	4.15	4.6	4.25	5.15	4.95	4.45	3.75
Sample Type Geology Code	Units	ES ALLUV	ES PEAT	ES TOPSOIL	ES ALLUV	ES CLAY	ES CLAY	ES MG	ES MG	ES CLAY	ES MG	ES MG	ES CLAY	ES CLAY	ES CLAY	ES CLAY	ES MG	CLAY	ES CLAY	ES CLAY	ES CLAY	ES MG	CLAY
Geology Code	Oilles	ALLUV	PEAI	TOPSOIL	ALLUV	CLAT	CLAT	IVIG	IVIG	CLAT	IVIG	IVIG	CLAT	CLAT	CLAT	CLAT	IVIG	CLAT	CLAT	CLAT	CLAT	IVIG	CLAT
Cluster Code		2008 GI	2008 GI	2008 GI	2008 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI
VOCs																							
1,1,1,2-Tetrachloroethane	ug/kg	<10	<10	<10	<10			<2	<2														
1,1,2,2-Tetrachloroethane 1,1,1-Trichloroethane	ug/kg ug/kg	<10 <7	<10 <7	<10 <7	<10 <7			<1	<1														
1,1,2-Trichloroethane	ug/kg	<10	<10	<10	<10			<10	<10														
1,1-Dichloroethane	ug/kg	<8	<8	<8	<8			<1	<1														
1,1-Dichloroethene 1,1-Dichloropropene	ug/kg ug/kg	<10 <11	<10 <11	<10 <11	<10 <11			<1	<1														
1,2,3-Trichlorobenzene	ug/kg	<11	<11	<11	<11			<2	<2														
1,2,3-Trichloropropane	ug/kg	<17	<17	<17	<17			<50	<50														
1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	ug/kg ug/kg	<6 <9	<6 <9	<6 <9	<6 <9			<2	<2														
1,2-Dibromo-3-Chloropropane	ug/kg	<14	<14	<14	<14			<50	<50														
1,2-Dibromoethane	ug/kg	<12	<12	<12	<12			<5	<5														
1,2-Dichlorobenzene 1,2-Dichloroethane	ug/kg ug/kg	<12 <5	<12 <5	<12 <5	<12 <5			<1 <2	<1 <2														
1,2-Dichloropropane	ug/kg	<12	<12	<12	<12			<1	<1														
1,3,5-Trimethylbenzene	ug/kg	<8	<8	<8	<8			<1	<1														
1,3-Dichlorobenzene 1,3-Dichloropropane	ug/kg ug/kg	<6 <7	<6 <7	<6 <7	<6 <7			<1	<1														
1,4-Dichlorobenzene	ug/kg	<5	<5	<5	<5			<1	<1														
2.2-Dichloropropane	ug/kg	<12	<12	<12	<12			-4	-4														
2-Chlorotoluene 4-Chlorotoluene	ug/kg ug/kg	<9 <12	<9 <12	<9 <12	<9 <12			<1	<1														
4-Isopropyltoluene	ug/kg	<11	<11	<11	<11			<1	<1														
Bromobenzene Bromochloromethane	ug/kg	<10 <14	<10 <14	<10 <14	<10 <14			<1 <5	<1 <5														
Bromodichloromethane	ug/kg ug/kg	<7	<7	<7	<7			<5	<5														
Bromoform	ug/kg	<10	<10	<10	<10																		
Bromomethane Carbon Disulphide	ug/kg	<13 <7	<13 <7	<13 <7	<13 <7			<20	<20														
Chlorobenzene	ug/kg ug/kg	<5	<5	<5	<5			<1	<1														
Chloroethane	ug/kg	<14	<14	<14	<14			<2	<2														
Chloroform	ug/kg ug/kg	<8	<8	<8	<8			<1	<1									-					
Chloromethane	ug/kg	<7	<7	<7	<7			<1	<1														
cis-1,2-Dichloroethene	ug/kg	<5	<5	<5	<5			<1	<1														
cis-1,3-Dichloropropene Dibromochloromethane	ug/kg ug/kg	<14 <13	<14 <13	<14 <13	<14 <13			<10 <10	<10 <10														
Dibromomethane	ug/kg	<9	<9	<9	<9			<1	<1														
Dichlorodifluoromethane	ug/kg	<4	<4	<4	<4			<1	<1														
Dichloromethane Hexachlorobutadiene (HCBD)	ug/kg ug/kg	<10 <12	<10 <12	<10 <12	<10 <12			<1	<1														
Isopropylbenzene	ug/kg	<5	<5	<5	<5			<1	<1														
n-Butylbenzene	ug/kg	<10	<10	<10	<10			<1	<1														
n-propylbenzene Sec-Butylbenzene	ug/kg ug/kg	<11 <10	<11 <10	<11 <10	<11 <10			<1	<1														
Styrene	ug/kg	<10	<10	<10	<10			<1	<1														
Tert-Butylbenzene	ug/kg	<12	<12	<12	<12			<1	<1														
Tetrachloroethene Tetrachloromethane (Carbon Tetra Chloride)	ug/kg ug/kg	<5 <14	<5 <14	<5 <14	<5 <14			<1	<1														
trans-1,2-Dichloroethene	ug/kg	<11	<11	<11	<11			<1	<1														
trans-1,3-Dichloropropene	ug/kg	<14	<14	<14	<14			<10	<10														
Tribromomethane Trichloroethene	ug/kg ug/kg	<9	<9	<9	<9			<1	<1														
Trichlorofluoromethane	ug/kg	<6	<6	<6	<6			<1	<1														
Vinyl Chloride SVOCs	ug/kg	<10	<10	<10	<10																		
2,4,5-Trichlorophenol	mg/kg	<0.1	<0.1	<0.1	<0.1			<0.5	<0.5														
2,4,6-Trichlorophenol	mg/kg	<0.1	<0.1	<0.1	<0.1			<0.5	<0.5														
2,4-Dichlorophenol	mg/kg	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1			<0.5 <0.5	<0.5 <0.5														
2,4-Dimethylphenol 2,4-Dinitrotoluene	mg/kg mg/kg	<0.1	<0.1	<0.1	<0.1			<0.5	<0.5														
2,6-Dinitrotoluene	mg/kg	<0.1	<0.1	<0.1	<0.1			<0.5	<0.5														
2-Chloronaphthalene 2-Chlorophenol	mg/kg mg/kg	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1			<0.5 <0.5	<0.5 <0.5														
2-Methyl-4,6-Dinitrophenol	mg/kg							<0.5	<0.5														
2-Methylnaphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1			<0.5	<0.5								-						
2-Methylphenol 2-Nitroaniline	mg/kg mg/kg	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1			<0.5 <0.5	<0.5 <0.5														
2-Nitrophenol	mg/kg	<0.1	<0.1	<0.1	<0.1			<0.5	<0.5														
3-Nitroaniline	mg/kg	<0.1	<0.1	<0.1	<0.1			<0.5	<0.5														
4-Bromophenyl Phenyl Ether 4-Chloro-3-Methylphenol	mg/kg mg/kg	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1			<0.5 <0.5	<0.5 <0.5														
4-Chloroaniline	mg/kg	<0.1	<0.1	<0.1	<0.1			<0.5	<0.5														
4-Chlorophenyl Phenyl Ether 4-Methylphenol	mg/kg	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1			<0.5 <0.5	<0.5 <0.5														
4-Metnyipnenoi 4-Nitroaniline	mg/kg mg/kg	<0.1	<0.1	<0.1	<0.1			<0.5	<0.5														
4-Nitrophenol	mg/kg	<0.1	<0.1	<0.1	<0.1			<0.5	<0.5														
Azobenzene Bis(2-chloroethoxy)methane	mg/kg mg/kg	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1			<0.5 <0.5	<0.5 <0.5									-					
Bis(2-chloroethyl)ether	mg/kg	<0.1	<0.1	<0.1	<0.1			<0.5	<0.5														
Bis(2-chloroisopropyl)ether	mg/kg		-					<0.5	<0.5										\vdash				
Bis(2-ethylhexyl)phthalate Butylbenzylphthalate	mg/kg mg/kg	<0.1 <0.1	<0.1 <0.1	0.54 <0.1	<0.1			<0.5 <0.5	<0.5 <0.5														
Carbazole	mg/kg	<0.1	<0.1	<0.1	<0.1			<0.5	<0.5														
Dibenzofuran	mg/kg	<0.1	<0.1	<0.1	<0.1			<0.5	<0.5								-						
Diethylphthalate Dimethylphthalate	mg/kg mg/kg	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1			<0.5 <0.5	<0.5 <0.5														
Di-N-Butyl Phthalate	mg/kg	<0.1	<0.1	<0.1	<0.1			<0.5	<0.5														
Di-N-Octyl Phthalate	mg/kg	<0.1	<0.1	<0.1	<0.1			<0.5	<0.5														
Hexachlorobenzene (HCB) Hexachlorocyclopentadiene	mg/kg mg/kg	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1			<0.5 <0.5	<0.5 <0.5														
Hexachloroethane	mg/kg	<0.1	<0.1	<0.1	<0.1			<0.5	<0.5														
Isophorone	mg/kg	<0.1	<0.1	<0.1	<0.1			<0.5	<0.5														
Nitrobenzene n-nitrosodimethylamine	mg/kg mg/kg	<0.1	<0.1	<0.1	<0.1			<0.5 <0.5	<0.5 <0.5														
N-Nitroso-Di-N-Propylamine	mg/kg	<0.1	<0.1	<0.1	<0.1			<0.5	<0.5														
Pentachlorophenol (PCP)	mg/kg	<0.1	<0.1	<0.1	<0.1			<0.5	<0.5														

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	Selected S4ULs Criteria	No. Data Exceeding S4ULs Criteria
2	0	None > LOD	None > LOD			6
0	0	None > LOD	None > LOD			4
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD None > LOD	None > LOD None > LOD			6
2	0	None > LOD	None > LOD		102	0
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD		220	0
2	0	None > LOD None > LOD	None > LOD None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD None > LOD	None > LOD None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
0	0	None > LOD	None > LOD			4
2	0	None > LOD None > LOD	None > LOD None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
0	0	None > LOD None > LOD	None > LOD None > LOD			6 4
2	0	None > LOD None > LOD	None > LOD None > LOD			6
0	0	None > LOD	None > LOD		11	0
2	0	None > LOD	None > LOD		56	0
2	0	None > LOD	None > LOD		0.050	6
2	0	None > LOD None > LOD	None > LOD None > LOD		0.059	0
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD None > LOD	None > LOD			6
2	0	None > LOD	None > LOD None > LOD			6
0	0	None > LOD	None > LOD			4
2	0	None > LOD	None > LOD		31	0
2	0	None > LOD	None > LOD			6
2	0	None > LOD None > LOD	None > LOD None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD None > LOD	None > LOD None > LOD		19 2.9	0
2	0	None > LOD	None > LOD		2.9	6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			2
2	0	None > LOD	None > LOD None > LOD		1.2	6
0	0	None > LOD None > LOD	None > LOD		0.059	0
						-
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD None > LOD	None > LOD None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD None > LOD	None > LOD None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD None > LOD	None > LOD None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD None > LOD	None > LOD None > LOD			6
2	0	None > LOD None > LOD	None > LOD None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD None > LOD	None > LOD None > LOD			2 5
2	0	None > LOD None > LOD	None > LOD None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD			6
2	0	None > LOD None > LOD	None > LOD None > LOD			6
2	0	None > LOD None > LOD	None > LOD None > LOD			6
2	0	None > LOD	None > LOD		30	0
2	0	None > LOD	None > LOD			6
2	0	None > LOD None > LOD	None > LOD None > LOD			6
2	0	None > LOD None > LOD	None > LOD None > LOD			6
2	0	None > LOD	None > LOD			2
2	0	None > LOD	None > LOD			6
2	0	None > LOD	None > LOD		110	0

utside of CL sites - chainage +1		-		j																																		
ence oth (m)																																			P533 TP534 0 - 0.2 0 - 0.3			
		4.25 6.5 ES ES	6.35	5.85	5.35	10.65	11.15 10	10.75	28.05	27.55 ES	26.85 ES	24.85	24.05	23 2	22.65 22.0	05 28.9 2 ES	9.6 29.	.2 35.4	35	37.1 26.8	25.9	26.3 13.	75 20.8	20.3	20.2 20.5	19.75	19.55 5.	1 4.3	14.6 33.1	32.35	36.65	5 35.95	21.1 20	20.9 1	17.2 22.7 ES ES	31.75	14.1 13	.2 12.8
	Units	PEAT CLA	CLAY	CLAY	CLAY	SILT	SAND SA	AND S	AND/MG?	CLAY/MG?	GRAVEL/MG?	CLAY	CLAY	CLAY	MG MG	MG C	LAY CLA	Y CLAY	CLAY	MG CLAY	ND /BRECO	CLAY SAI	ID MG	MG	MG MG	MG	MG CL	Y CLAY	SILT MG	SANDSTON	NE MG	CLAY	CLAY CL	LAY C	CLAY CLAY	CLAY	CLAY CLA	Y CLA
		2015 GI 2015	GI 2015 GI	2015 GI	2015 GI	2015 GI	2015 GI 20:	015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI	2015 GI 20	015 GI 2015	GI 2015 GI 20	15 GI 2015	GI 2015 G	GI 2015 GI 2	015 GI 2015	GI 2015 GI	2015 GI 2019	6 GI 2015 GI	2015 GI 2	015 GI 2015 G	2015 GI	2015 GI 2011	6 GI 2015 GI	2015 GI 2015	GI 2015 GI	2015	GI 2015 GI	2015 GI 201	15 GI 20	015 GI 2015 GI	2015 GI 2	15 GI 2015	6 GI 2015
Inorganics	mg/kg		_								1	_						1			_			T T		1		_		_				一				
	mg/kg	<1 11	4	6.7	11	6.9	4.8	4.9	26	17	14	7.6	15	18	43 64	26	24 35	46	18	16 65	44	10 7.	1 40	57	45 52	50	74 9.	4 18	6 23	27	15	11	24 7	22	28 47	20	15 8.	4 17
	mg/kg mg/kg																																	+	\longrightarrow			
r Soluble	mg/kg mg/kg		0.59	<0.4	0.47	<0.4	<0.4 <	<0.4	<0.4	<0.4	<0.4	<0.4	0.48	0.64	<0.4 <0.	4 0.46	1.1 0.7	3 <0.4	1.6	0.61 0.8	<0.4	5.3 0.6	0.63	7.8	<0.4 <0.4	<0.4	<0.4 0.9	1.6	<0.4 0.71	0.59	0.55	<0.4	0.77 0.	i.61 C	0.61 0.83	2.1	1.2 0.5	9 0.73
	mg/kg	< 0.1 0.1	0.17	<0.1	<0.1	0.16	0.18 0	0.13	0.23	0.15 34	0.2					1 0.22 (0.96 1.4			
	mg/kg mg/kg		6.2	7.2	9.7	17	93	17		37	36	23	27	31	4.1 5.8	26 3 19	9.8 8.4	4 28	34 18	21 19	2.9	7.1 7.	7 11	87	<.5 <0.5	< 0.5	3.6 1	5 16	12 42 12 16	11	16	9.4	17	13	43 57 23 27	20	17 9.	1 22
	mg/kg mg/kg	<0.5 35	21	16	15	39	73	21	34	23	21	31			8 16	26	17 11	1 26	32	39 120	11	16 1	7 7.9	23	3.9 5.6	6.2	4.1 3	5 48	26 28	17					51 77			
	mg/kg	<0.1 <0.	<0.1	<0.1	<0.1	<0.1	<0.1 <	<0.1	0.21	<0.1	<0.1	<0.1	<0.1	0.13	<0.1 <0.	1 <0.1	0.1 <0.	1 0.11	<0.1	<0.1 0.13	0.38	<0.1 <0	.1 <0.1	<0.1	<0.1 <0.1	0.11	<0.1 <0	1 0.11	<0.1 0.1	0.11					<0.1 0.1			
m	mg/kg mg/kg	<0.5 17	10	17	17	9.8	16	14		29	41		32	23	9.9 10	12	21 20	66	27	23 42	12	14 2	9.4	19	5.3 7.2	8.6	11 1	3 19	12 37	28	21	20	31	27	32 41	28	25 20	22
	mg/kg mg/kg	0.35 0.2	0.51	0.42	0.49	<0.2	<0.2 <	<0.2	0.38	<0.2	0.35	<0.2	<0.2	0.22	<0.2 <0.	2 <0.2 (0.28 <0.	2 0.68	0.24	<0.2 0.78	<0.2	0.48 0.3	4 <0.2	<0.2	<0.2 <0.2	<0.2	<0.2 0.8	1.1	0.44 <0.2	0.22	0.52	0.37	0.39 <0	.0.2 <	<0.2 <0.2	0.2	0.35 <0	.2 <0.2
	mg/kg	1.6 50	39	37	33	44	110	51	110	84	110	92	71	300	25 38	71	67 57	190	100	110 300	62	150 8	9 44	190	17 20	27	31 7	52	51 120	83	100	75 -0.5	140 1	120	200 310	330	130 50	5 100
tal) ee)	mg/kg mg/kg	<0.5 <0.	<0.5	<0.5	<0.5	<0.5	<0.5 <	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5 <0.	5 <0.5	0.5 <0.	5 <0.5	<0.5	<0.5 <0.5	<0.5	<0.5 <0	.5 <0.5	<0.5	<0.5 <0.5	<0.5	<0.5 <0	.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5	<0.5 <	:0.5	<0.5 <0.5 <0.5 <0.5	<0.5	<0.5 <0	.5 <0.5
Nitrogen as N Other	mg/kg						_	_				4					_										_			_			_	_				
Presence Screen	None %		0						0						0 0	0.1	0 0	0	0	0			0		0 0	0	0		0 <0.00	0			=	工	\neg			
dentification nition	%		1 <0.001	<0.001					<0.001	<0.001				<	0.001	01 (0.001 <0.0	v1 <0.00	<0.001	<0.00			<0.001		-0.001 <0.001	<u.uu1< td=""><td>NU.001</td><td></td><td></td><td>1 <0.001</td><td><0.00</td><td></td><td></td><td>士</td><td>\rightarrow</td><td></td><td></td><td></td></u.uu1<>	NU.001			1 <0.001	<0.00			士	\rightarrow			
nic Carbon	% pH Units	5.8 6.2 7.5	6.7	7.3	6.8	6.5	6 f	6.3	7	6.6	7.1	7.1	6.7	8.1	9.9 9.1	8.5	7.9 8.4	4 7.4	7.2	7.6 7.5	7.4 9.1	8.5 7.	5 9.6	8.3	9.5 9.2	7.9	9.4 6.	1 5.7	1.1 6.8 7.3	8.2	6.7	6.9		0.56 6.5	7.2 8.9	7.9	7.6 7	6 77
2mm	%	/								***		1								, ,,,											3.7			#				
oluble) ilue	g/l MJ/kg																																	士				
Organics oclor 1254)	ma/ka				-																												_	_	$\overline{}$			
onohydric	mg/kg mg/kg																																	#				
	mg/kg mg/kg			<0.3	<0.3		<	<0.5	<0.3	<0.3					<0.3 <0.	3 .	:0.3 <0.	3 <0.3	<0.5	<0.5 <0.3	<0.3		<0.3	<0.3	<0.3 <0.3	<0.3	<0.3		<0.3	<0.3	<0.3		-+	+	\rightarrow			
BTEX	ma/ka		_								1	_						1			_			T T		1		_		_				一				
12)	mg/kg mg/kg							<1											<1	<1													-	=				
	mg/kg mg/kg				<1 <1			<1 <1							<1 <1			<1	<1	<1			<1	<1	<1				<1	<1	<1 <1		-+	+	\rightarrow			
ene	mg/kg				<1 <1			<1 <1							<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <			<1	4	<1				<1	<1				<1		<1 <1			#				
ene	mg/kg mg/kg				<1			<1							4 4			<1	<1	<1				<1	<1				<1		<1		二世	ᆂ				
TPH 8.	mg/kg	<1	<1	<1	Т		<1	<1	<1	<1							<1 <1				<1				<1	<1	<1					<1	-	-	$\overline{}$			
10. C12.	mg/kg	<1	<1 <1	<1			<1 .		<1 <1	<1							d d	L			<1 <1				<1 <1	<1						<1 <1		#				
C16.	mg/kg mg/kg	<1	<1	<1			<1	<1	<1	<1							<1 <1	L			<1				<1	<1	<1					<1		二				
C21. C35.	mg/kg mg/kg		<1 <1				<1 -		<1	<1							<1 <1				<1 <1				<1 <1	1.6						<1 <1	-+	+	\rightarrow			
C5-C6 >C6-C8	mg/kg mg/kg				<0.1 <0.1										<0.1 <0. <0.1 <0.				<0.1 <0.1	<0.1 <0.1				<0.1 <0.1	<0.1 <0.1				<0.1 <0.1		<0.1			4				
>C8-C10	mg/kg				< 0.1										<0.1 <0.	1		< 0.1	<0.1	< 0.1			<0.1	<0.1	<0.1				<0.1	<0.1	<0.1							
>C10-C12 >C12-C16	mg/kg mg/kg				<1 <1										41 41 41 41			<1	<1 <1 <1	<1 <1			<1	<1	<1				<1	<1	<1 <1		-+	+	\rightarrow			
>C16-C21 >C21-C35	mg/kg mg/kg				<1 <1										<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <			<1	<1	<1			<1	<1	<1				<1		<1 <1			4	-			
atics C5-C35	mg/kg																																					
C35-44 >C5-7	mg/kg mg/kg				<1 <0.1										<1 <1 <0.1				<0.1	<1 <0.1				<1 <0.1	<1 <0.1				<1		<1 <0.1		-	\pm	\pm			_
C6-C7 >C7-8	mg/kg mg/kg	\vdash	+	$\vdash \exists$	<0.1	-	-T	$-\mathbb{T}$				+	-	Τ.	<0.1 <0.	1		<∩ 1	<0.1	<0.1	+ =	$-\top$	<0.1	<0.1	<0.1	$+ \equiv$	-	_	<0.1	<0.1	<0.1	$+ \blacksquare$	$ \vdash$	$-\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	\dashv	$+ \mp$		-1-
>EC8-EC10	mg/kg				<0.1										<0.1 <0.	1		<0.1	<0.1	<0.1			< 0.1	<0.1	<0.1				< 0.1	< 0.1	<0.1			#	\dashv			
EC10-EC12 EC12-EC16	mg/kg mg/kg				<1 <1										<1 <1		ᆂ	<1	<1	<1			<1	<1 <1	<1				41	<1	<1 <1		=	士	\pm			ᆂ
>EC16-EC21 >EC21-EC35	mg/kg mg/kg		+	$\vdash \exists$	<1 <1	-		$-\mathbb{T}$				+	-		4 4 4 4			<1	<1	<1				<1	<1			_	<1		<1 <1		-	-F	\dashv	$+ \mp$		-1-
natics C6-C35 >C35-44	mg/kg																			<1														二 ニ	=			
atic TPH	mg/kg mg/kg				<1 <5										<1 <1 <5 <5	i		<5	<1 <5	<5			<1	<5	<1				<1	<5	<1 <5		$=$ \pm	\pm	\rightarrow			
natic TPH natics and Aromatics C5-C35)	mg/kg mg/kg				<5										<5 <5			<5	<5	<5			<5	<5	<5				<5	<5	<5		-+	+	-			
leum hydrocarbons	mg/kg				<10										<10 <1	0		<10	<10	<10			<10	<10	<10				<10	<10	<10		ightharpoonup	ユニ				ᆂ
PAH ne	mg/kg	0.26 <0.	0.15	<0.1	<0.1	<0.1	<0.1 <	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 <0.	1 <0.1	:0.1 <0.	1 <0.1	<0.1	<0.1 <0.1	<0.1	<0.1 <0	1 <0.1	<0.1	<0.1 <0.1	<0.1	<0.1 <0	1 <0.1	<0.1 <0.1	<0.1	<0.1	<0.1	<0.1 <	<0.1	<0.1 <0.1	<0.1	<0.1 <0	.1 <0.1
lene	ma/ka	0.29 <0. <0.1 0.1	<0.1	<0.1	<0.1	<0.1	<0.1 <	<0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1	<0.1	<0.1	<0.1 <0. 0.1 <0	1 <0.1	:0.1 <0.	1 <0.1	<0.1 <0.1	<0.1 <0.1 <0.1 <0.1	<0.1	<0.1 <0 <0.1 <0	.1 <0.1	<0.1 <0.1	<0.1 <0.1 <0.1 <0.1	<0.1	<0.1 <0	1 <0.1	<0.1 <0.1 <0.1 <0.1	<0.1 <0.1	<0.1	<0.1 <0.1	<0.1 <0	.0.1 < <0.1	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<0.1 <0.1	<0.1 <0	.1 <0.1
acene	mg/kg	<0.1 <0.	<0.1	<0.1	<0.1	<0.1	<0.1 <	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 <0.	1 <0.1	0.1 <0.	1 <0.1	<0.1	<0.1 <0.1	<0.1	<0.1 <0	1 <0.1	<0.1	<0.1 <0.1	<0.1	<0.1 <0	1 4.8	<0.1 <0.1	<0.1	<0.1	<0.1	<0.1 <	:0.1	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<0.1	<0.1 <0	1 <0.1
ene oranthene	mg/kg mg/kg	<0.1 <0.	<0.1	<0.1	<0.1	<0.1	<0.1 <	<0.1	<0.1	<0.1	<0.1 <0.1	<0.1	<0.1	<0.1	<0.1 <0.	1 <0.1	0.1 <0.	1 <0.1	<0.1	<0.1 <0.1 <0.1 <0.1	<0.1	<0.1 <0	1 <0.1	<0.1	<0.1 <0.1	<0.1	<0.1 <0	1 <0.1	<0.1 <0.1	<0.1	<0.1	<0.1	<0.1 <	:0.1	<0.1 <0.1	<0.1	<0.1 <0	.1 <0.1
erylene ranthene	mg/kg mg/kg	<0.1 <0.	<0.1	<0.1	<0.1	<0.1	<0.1 <	<0.1 <0.1	<0.1	<0.1	<0.1 <0.1	<0.1	<0.1	<0.1	<0.1 <0.	1 <0.1	:0.1 <0.	1 <0.1	<0.1 <0.1	<0.1 <0.1 <0.1 <0.1	<0.1 <0.1	<0.1 <0	1 <0.1	<0.1 <0.1	<0.1 <0.1 <0.1 <0.1	<0.1	<0.1 <0	1 <0.1	<0.1 <0.1 <0.1 <0.1	<0.1 <0.1	<0.1	<0.1	<0.1 <	.0.1 < <0.1	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<0.1 <0.1	<0.1 <0	.1 <0.1
	mg/kg	<0.1 <0. <0.1 <0.	<0.1	<0.1	<0.1	<0.1	<0.1 <	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 <0.	1 <0.1	0.1 <0.	1 <0.1	<0.1	<0.1 <0.1	<0.1	<0.1 <0	1 <0.1	<0.1	<0.1 <0.1	<0.1	<0.1 <0	1 1.6	<0.1 <0.1	<0.1	<0.1	<0.1	<0.1 <	:0.1	(0.1 < 0.1	<0.1	<0.1 <0	.1 <0.1
anthracene	mø/kø	18 0.2	0.38	< 0.1	<0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.28 <0.	1 0.35	0.1 <0.	1 <0.1	<0.1	<0.1 <0.1 <0.1 <0.1	<0.1	<0.1 <0 <0.1 <0	.1 <0.1	<u.1 0.14</u.1 	<0.1 <0.1 <0.1 <0.1	<0.1	<0.1 <0	1 <0.1	<0.1 <0.1 <0.1 <0.1	<0.1	<0.1 0.22	<0.1	<0.1 <0	U.1 <	<0.1 <0.1 <0.1 0.23	<u.1 0.3</u.1 	<0.1 <0	.1 <0.1
rd]myrene	mg/kg	0.17 <0. <0.1 <0.	0.16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 <0.	1 <0.1	0.1 <0.	1 <0.1	<0.1	<0.1 <0.1	<0.1	<0.1 <0	1 <0.1	<0.1	<0.1 <0.1	<0.1	<0.1 <0	1 <0.1	<0.1 <0.1	<0.1	<0.1	<0.1	<0.1 <	.0.1 <	<0.1 0.23 <0.1 <0.1 <0.1 <0.1	<0.1	<0.1 <0	.1 <0.1
cd)pyrene e	mg/kg	0.94 <0. 0.24 0.2	0.16	<0.1	<0.1	<0.1	<0.1 <	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1 <0.	1 <0.1	0.1 <0.	1 <0.1	<0.1	<0.1 <0.1	<0.1	<0.1 <0	1 <0.1	<0.1	<0.1 <0.1	<0.1	<0.1 <0	1 <0.1	<0.1 <0.1	<0.1	<0.1	<0.1	<0.1 <	:0.1	<0.1 <0.1	<0.1	<0.1 <0	1 <0.1
ene	mg/kg mg/kg	0.24 0.2 23 0.2 43 <2	0.25	<0.1 <0.1	<0.1 <0.1	<0.1	<0.1 <	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1	<0.1	<0.1	U.17 <0. 0.32 <0.	1 <0.1	:0.1 <0. :0.1 <0.	1 <0.1 1 <0.1	<0.1 <0.1	<0.1 <0.1 <0.1 <0.1	<0.1 <0.1	<0.1 <0 <0.1 <0	.1 <0.1	<0.1 <0.1	<0.1 <0.1 <0.1 <0.1	<0.1 <0.1	<0.1 <0 <0.1 <0	1 0.21	<0.1 <0.1 <0.1 <0.1	<0.1 <0.1	<0.1 0.22	<0.1 <0.1	<0.1 <0	U.1 <	<0.1 <0.1 <0.1 <0.1 <0.1 0.17 <0.1 0.24 <2 <2	0.36	<0.1 <0	.1 0.18
		43 <2		-	_		_	-3	-3			-2	- 0	-2	0 0	<2	0 0	, <2	<2	<2 <2	- (2	0 () 10	<2	0 0	<2	<2 <	2 6.9	<2 <2	<2	<2	<2	(2)	~	0 0	- 2	0 0	2 <2

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	Selected S4ULs Criteria	No. Data Exceedin S4ULs Criteria
0	0	N167	N 16"			0
48	47	None > LOD 74	None > LOD 4	BH566C @ 19.55mbGL	170	0
0	0	None > LOD	None > LOD	bi1300c @ 13.33iii00c	170	ő
0	0	None > LOD	None > LOD		12	0
48	29	9.1	0.4	BH537 @ 4.25mbGL	46000	0
0	0	None > LOD	None > LOD			0
48	41	1.9	0.13	BH561 @ 26.8mbGL	190	0
48	47	76	6.7	BH557 @ 35.4mbGL	33	16
48	45	93	2.8	BH541 @ 11.15mbGL	44000	0
0	0	None > LOD	None > LOD			0
48	47 11	120	3.9	BH561 @ 26.8mbGL	1300 30	0
48 0	0	0.38 None > LOD	0.1 None > LOD	BH561 @ 25.9mbGL	30	0
48	47	66	5.3	BH557 @ 35.4mbGL	980	0
48	23	1.1	0.2	TP518 @ 4.3mbGL	1800	0
0	0	None > LOD	None > LOD		5000	0
48	48	330	1.6	TP536 @ 31.75mbGL	170000	0
48	1	1.3	1.3	TP536 @ 31.75mbGL		47
48	0	None > LOD	None > LOD			48
0	0	None > LOD	None > LOD			0
		_	_			_
20	20	0 None > LOD	0 None > LOD			0
20	0	None > LOD None > LOD	None > LOD None > LOD		 	20
4	4	7.4	0.56	BH561 @ 25.9mbGL		0
48	48	9.9	5.7	BH555 @ 22.65mbGL	6-9	8
			- '			0
						0
						0
0	0	None > LOD	None > LOD		0.24	0
0	0	None > LOD	None > LOD		440	0
3 21	0	None > LOD None > LOD	None > LOD None > LOD		440 440	0
21		None > LOD	Notic > LOD		440	
0	0	None > LOD	None > LOD			0
3	ő	None > LOD	None > LOD			3
13	0	None > LOD	None > LOD		27	0
13	0	None > LOD	None > LOD		56000	0
13	0	None > LOD	None > LOD		5700	0
13	0	None > LOD	None > LOD		5900	0
13	0	None > LOD	None > LOD		6600	0
14	0	None > LOD	None > LOD		7800	0
14	0	None > LOD	None > LOD		2000	0
14	0	None > LOD	None > LOD		9200	0
14	0	None > LOD	None > LOD		10000	0
14	1	1.6	1.6	BH566B @ 19.75mbGL	7600	0
14	0	None > LOD	None > LOD		7800	0
12	0	None > LOD	None > LOD		3200	0
12	0	None > LOD None > LOD	None > LOD None > LOD		7800 2000	0
12	0	None > LOD	None > LOD		9700	0
12	0	None > LOD	None > LOD		25000	0
12	o o	None > LOD	None > LOD		450000	0
12	0	None > LOD	None > LOD		450000	0
0	0	None > LOD	None > LOD			0
12	0	None > LOD	None > LOD		450000	0
12	0	None > LOD	None > LOD		26000	0
0	0	None > LOD	None > LOD		7800	0
12 12	0	None > LOD None > LOD	None > LOD None > LOD		56000 3500	0
12	0	None > LOD None > LOD	None > LOD None > LOD		9200	0
12	0	None > LOD	None > LOD		10000	0
12	0	None > LOD	None > LOD		7600	0
12	ő	None > LOD	None > LOD		7800	0
0	0	None > LOD	None > LOD			0
12	0	None > LOD	None > LOD		7800	0
12	0	None > LOD	None > LOD			12
12	0	None > LOD	None > LOD			12
0 12	0	None > LOD None > LOD	None > LOD None > LOD			0 12
12		None > LOD	wone > LOD			12
48	2	0.26	0.15	BH537 @ 4.25mbGL	29000	0
48	1	0.29	0.15	BH537 @ 4.25mbGL BH537 @ 4.25mbGL	29000	0
48	2	0.17	0.1	BH538 @ 6.55mbGL	150000	0
48	1	4.8	4.8	TP518 @ 4.3mbGL	49	0
48	0	None > LOD	None > LOD		11	0
48	0	None > LOD	None > LOD		13	0
48	0	None > LOD	None > LOD		1400	0
48	0	None > LOD	None > LOD		370	0
48	1	1.6	1.6	TP518 @ 4.3mbGL	93	0
48 48	0 11	None > LOD 18	None > LOD 0.12	BH537 @ 4.25mbGL	1.1 6300	0
	11 2	18 0.17	0.12	BH537 @ 4.25mbGL BH537 @ 4.25mbGL	6300 20000	0
40	0	None > LOD	None > LOD	Br1337 @ 4.25⊞0GL	20000 150	0
48				1		
48				RH537 @ 4 25mh/3	190	0
48 48	2	0.94	0.16	BH537 @ 4.25mbGL TP536 @ 31.75mbGL	190 6200	0
48				BH537 @ 4.25mbGL TP536 @ 31.75mbGL BH537 @ 4.25mbGL	190 6200 15000	0 0

Sample Reference Specimen Depth (m)		BH537 0.3 - 0.5	BH538 0.2 - 0.4	BH539 BH539 0 - 0.2 0.5 - 0.7	BH539 1 - 1.2	BH540 0.2 - 0.5	BH541 BI	H541 BH543 5 - 0.8 0.3 - 0.5	BH543 0.8 - 1	BH543 1.5 - 1.6	BH543 3.5 - 3.6	BH548 BH550 0 - 0.3 0 - 0.5	BH555 B 0.4 - 0.5 1	H555 BH:	555A B - 0.8 0	H556 BH556 0 - 0.2 0.4 - 0.	6 0 - 0.2	BH557 0.4 - 1 0	BH558 .2 - 0.5 0	BH561 BH56	1 BH562 BH5 2 0.1 - 0.2 0.6 -	563 BH - 0.9 1 ·	H564 BH564 -1.2 1.5 - 1.6 0	BH565 I	BH565A BH566B 0.5 - 0.6 0.5 - 0.6	BH566C TP518 0.7 - 0.8 0 - 0.3	TP518 0.8 - 1	TP527 0 - 0.15	TP528 TI 0 - 0.2 0	P528 .8 - 1	TP529 TP529 0-0.1 0.7-0.8	TP532 TI 0 - 0.2 0.2	532 TP533 - 0.4 0 - 0.2	TP534 TP536 0 - 0.3 0 - 0.3	TP539 0 - 0.2	TP539 TP:	.40 TP542 0.4 0 - 0.4
OD Level (m) Sample Type Geology Code	Units	ES	ES	ES ES	ES	ES	ES	0.75 28.05 ES ES	ES	ES	ES	ES ES	ES	ES I	ES .	ES ES	ES	ES	ES	ES ES	ES E	S I	ES ES	ES	ES ES	ES ES	ES	ES	ES	ES	ES ES	ES	S ES	ES ES	ES	ES E	S ES
	1							AND SAND/MG?																													
Cluster Code		2015 GI	2015 GI	2015 GI 2015 GI	2015 GI	2015 GI 2	2015 GI 20	15 GI 2015 GI	2015 GI	2015 GI	2015 GI	2015 GI 2015 GI	2015 GI 20	115 GI 201	15 GI 20	015 GI 2015 G	ii 2015 Gi	2015 GI 2	015 GI 2	015 GI 2015	GI 2015 GI 201	.5 GI 201	15 GI 2015 GI 2	2015 GI	2015 GI 2015 GI	2015 GI 2015 G	2015 GI	2015 GI	2015 GI 20	115 GI	2015 GI 2015 GI	2015 GI 20	5 GI 2015 GI	2015 GI 2015 GI	2015 GI	2015 GI 201	GI 2015 GI
VOCs 1,1,1,2-Tetrachloroethane	ug/kg		Т		П			<2						1	Т			<2		<2							T			T							_
1,1,2,2-Tetrachloroethane	ug/kg ug/kg ug/kg							<1										<1		<1																	
1,1,2-Trichloroethane	ug/kg							<10										<10		<10																	
1,1-Dichloroethane 1,1-Dichloroethene	ug/kg ug/kg							<1 <1										<1		<1																	
1,1-Dichloropropene 1.2.3-Trichlorobenzene	ug/kg ug/kg	+						<1 <2							_			<1 <2		<1 <2																	-
1,2,3-Trichloropropane	ug/kg							<50										<50		<50																	
1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	ug/kg ug/kg							<2 <1										<2 <1		<2 <1																	
1,2-Dibromo-3-Chloropropane 1,2-Dibromoethane	ug/kg ug/kg							<50 <5										<50 <5		<50 <5				-													_
1,2-Dichlorobenzene 1.2-Dichloroethane	ug/kg ug/kg							<1 <2										<1 <2		<1 <2																	
1,2-Dichloropropane	ug/kg							<1										<1		<1																	
1,3,5-Trimethylbenzene 1,3-Dichlorobenzene	ug/kg ug/kg							<1 <1										<1		<1																	
1,3-Dichloropropane 1,4-Dichlorobenzene	ug/kg ug/kg							<1							_			<1		<1																	-
2.2-Dichloropropane	ug/kg																	<1		<1																	
2-Chlorotoluene 4-Chlorotoluene	ug/kg ug/kg							<1 <1										<1		<1																	
4-Isopropyltoluene Bromobenzene	ug/kg ug/kg				+			<1 <1		_				_				<1		<1 <1	1	- -					1						-1				_
Bromochloromethane Bromodichloromethane	ug/kg ug/kg							<5										<5 <5		<5																	4
Bromoform	ug/kg	1																																			
Bromomethane Carbon Disulphide	ug/kg ug/kg							<20										<20		<20		\pm															_
Chlorobenzene	ug/kg		$ \mp$		+ =	H		<1 <2	_		$\vdash \Box$		$\vdash \vdash$				+ =	<1 <2		<1 <2	+		_	-			+	$ \mp$					+		-7		+
Chloroethane Chloroethene	ug/kg ug/kg							<1										<1		<1																	
Chloroform Chloromethane	ug/kg ug/kg							<1 <1										<1		<1 <1																	
cis-1,2-Dichloroethene cis-1,3-Dichloropropene	ug/kg ug/kg							<1 <10							_			<1 <10		<1																	-
Dibromochloromethane Dibromomethane	ug/kg ug/kg							<10 <1										<10 <1		<10 <1																	
Dichlorodifluoromethane	ug/kg							<1										<1		<1																	
Dichloromethane Hexachlorobutadiene (HCBD)	ug/kg ug/kg							<1							-			<1		<1																	-
Isopropylbenzene n-Butylbenzene	ug/kg ug/kg							<1 <1										<1		<1 <1																	
n-propylbenzene	ug/kg							<1										<1		41																	
Sec-Butylbenzene Styrene Tert-Butylbenzene	ug/kg ug/kg ug/kg							<1										<1		<1																	_
Tert-Butylbenzene Tetrachloroethene	ug/kg ug/kg	-						<1 <1										<1		<1				-													_
Tetrachloromethane (Carbon Tetra Chloride) trans-1,2-Dichloroethene	ug/kg ug/kg							<1 <1										<1		<1																	
trans-1,3-Dichloropropene	ug/kg							<10										<10		<10																	
Tribromomethane Trichloroethene	ug/kg ug/kg							<1 <1										<1		<1 <1																	
Trichlorofluoromethane Vinyl Chloride	ug/kg ug/kg	-						<1										<1		<1				-													+
SVOCs					1 1		- 1	-0 E	1								_	<0.E		-0.E							_						1				
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	mg/kg mg/kg mg/kg						<	:0.5 :0.5										<0.5 <0.5		<0.5 <0.5																	
2,4-Dichlorophenol 2,4-Dimethylphenol	mg/kg						<	:0.5 :0.5										<0.5 <0.5		<0.5 <0.5																	-
2,4-Dinitrotoluene 2,6-Dinitrotoluene	mg/kg mg/kg							:0.5 :0.5										<0.5 <0.5		<0.5 <0.5																	
2-Chloronaphthalene	mg/kg							:0.5										<0.5		<0.5																	
2-Chlorophenol 2-Methyl-4,6-Dinitrophenol	mg/kg mg/kg						-	:0.5 :0.5 :0.5										<0.5 <0.5		<0.5																	
2-Methylnaphthalene 2-Methylphenol	mg/kg mg/kg							:0.5					\vdash				L	<0.5 <0.5		<0.5 <0.5							<u> </u>										
2-Nitroaniline 2-Nitrophenol	mg/kg mg/kg							:0.5 :0.5										<0.5 <0.5		<0.5 <0.5				\dashv													$-\mathbf{I}$
3-Nitroaniline 4-Bromophenyl Phenyl Ether	mg/kg						<	:0.5 :0.5										<0.5 <0.5		<0.5 <0.5				_			1										
4-Chloro-3-Methylphenol	mg/kg mg/kg							:0.5										< 0.5		< 0.5																	
4-Chloroaniline 4-Chlorophenyl Phenyl Ether	mg/kg mg/kg		\vdash				<	:0.5					\vdash	-			+	<0.5 <0.5		<0.5 <0.5	+ +	+		-+			+		-			-	-		+		-
4-Methylphenol 4-Nitroaniline	mg/kg mg/kg							:0.5 :0.5										<0.5 <0.5		<0.5 <0.5																	
4-Nitrophenol	mg/kg						<	:0.5										< 0.5		< 0.5																	
Azobenzene Bis(2-chloroethoxy)methane	mg/kg mg/kg							:0.5										<0.5 <0.5		<0.5 <0.5																	
Bis(2-chloroethyl)ether Bis(2-chloroisopropyl)ether	mg/kg mg/kg		\vdash				<	:0.5							$ \parallel$			<0.5 <0.5		<0.5 <0.5		+		-1			1	\vdash		-			-				
Bis(2-ethylhexyl)phthalate	mg/kg						<	:0.5 :0.5									1	<0.5 <0.5		<0.5				_			1										4
Butylbenzylphthalate Carbazole	mg/kg mg/kg							:0.5										<0.5		<0.5																	
Dibenzofuran Diethylphthalate	mg/kg mg/kg		\vdash		+		<	:0.5		<u> </u>				_ _				<0.5 <0.5		<0.5 <0.5	+		-				1 -										_
Dimethylphthalate Di-N-Butyl Phthalate	mg/kg						<	0.5 0.5										<0.5 <0.5		<0.5 <0.5																	4
Di-N-Octyl Phthalate	mg/kg mg/kg mg/kg						<	:0.5										<0.5		<0.5																	
Hexachlorobenzene (HCB) Hexachlorocyclopentadiene	mg/kg						<	:0.5 :0.5										<0.5 <0.5		<0.5 <0.5																	_
Hexachloroethane Isophorone	mg/kg mg/kg							:0.5 :0.5	1				\vdash		-			<0.5 <0.5		<0.5 <0.5	1	-					-						_		-		
Nitrobenzene	mg/kg						<	:0.5										< 0.5		<0.5																	
n-nitrosodimethylamine N-Nitroso-Di-N-Propylamine	mg/kg mg/kg mg/kg						<	:0.5 :0.5										<0.5 <0.5		<0.5 <0.5																	
Pentachlorophenol (PCP)	mg/kg	Ч					-	0.5	1	1			\bot					<0.5		<0.5																	

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	Selected S4ULs Criteria	No. Data Exceeding S4ULs Criteria
3	0	None > LOD	None > LOD		1	3
0	0	None > LOD	None > LOD			0
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD		i	3
3	ő	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD		İ	3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD		102	0
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD		220	0
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
0	0	None > LOD	None > LOD			0
3	0	None > LOD	None > LOD			3
3	o o	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD	1	l	3
3	o o	None > LOD	None > LOD	1	l	3
3	0	None > LOD	None > LOD		l	3
0	0	None > LOD	None > LOD		l	0
3	0	None > LOD	None > LOD		l	3
0	0	None > LOD	None > LOD		11	0
3	0	None > LOD	None > LOD		56	0
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD		0.059	0
3	0	None > LOD	None > LOD		99	0
3	0	None > LOD	None > LOD		22	3
3	0	None > LOD	None > LOD		l	3
3	0	None > LOD	None > LOD		l	3
0	0	None > LOD	None > LOD		l	3
3	0	None > LOD	None > LOD		l	3
0	0	None > LOD	None > LOD		l	3
0	0	None > LOD	None > LOD		l	0
3	0	None > LOD	None > LOD		31	0
0	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD		l	3
3	0	None > LOD	None > LOD		l	3
0	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
0	0	None > LOD	None > LOD		l	3
3	0	None > LOD	None > LOD		19	0
3	0	None > LOD	None > LOD		2.9	0
3	0	None > LOD	None > LOD		2.3	3
3	0	None > LOD	None > LOD			3
3	0					3
3	0	None > LOD None > LOD	None > LOD None > LOD		1.2	0
3	0	None > LOD	None > LOD		1.2	3
0	0	None > LOD	None > LOD		0.059	0
		None > LOD	None > LOD		0.059	U
3	0					3
3	0	None > LOD	None > LOD			3
3	0	None > LOD None > LOD	None > LOD None > LOD		l	3
3	0	None > LOD None > LOD	None > LOD None > LOD		-	3
3	0	None > LOD None > LOD	None > LOD None > LOD		 	3
3		None > LOD None > LOD			 	3
	0		None > LOD		 	
3	0	None > LOD None > LOD	None > LOD		-	3
3	0		None > LOD		-	3
3	0	None > LOD None > LOD	None > LOD None > LOD		l	3
3	0		None > LOD None > LOD		 	3
3	0	None > LOD			-	3
	0	None > LOD	None > LOD		 	
3	0	None > LOD None > LOD	None > LOD None > LOD		l	3
					 	
3	0	None > LOD None > LOD	None > LOD		 	3
3			None > LOD		 	3
	0	None > LOD	None > LOD		 	
3	0	None > LOD	None > LOD		 	3
3	0	None > LOD	None > LOD		 	3
		None > LOD	None > LOD		l	
3	0	None > LOD	None > LOD		-	3
3	0	None > LOD	None > LOD			3
		None > LOD	None > LOD		 	
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD		l	3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD		30	0
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD	None > LOD			3
3	0	None > LOD			110	0

M4CAN
Groundwater Sample Analysis & Screening Assessment
Non-CL Data
01/07/2015

 Geological Formation Legend

 MMMF
 Mercia Mudstone Marginal Facies
 TFD
 Tidal Flat Deposits
 SMF
 St Maughans Formation

 RTD
 River Terrace Deposits
 MMG
 Mercia Mudstone Group
 SMF
 St Maughans Formation

 TSF
 Tintern Sandstone Formation
 GFD
 Glaciofluvial Deposits
 SMF

Monitoring Round		Screenin	g Criteria				
Location				SBHD06	SBHD06	SBHJ03	SBHJ03
Location Type				BH	BH	BH	BH
Response Zone (RZ) Details				SAND/GRAVEL	SAND/GRAVEL	PEAT	PEAT
Drainage Area	Units	EQS	DWS	Wentloog Levels Area 2	Wentloog Levels Area 2	Caldicot Levels Area 4 Llanwern	Levels Area 4 Llanwern
Installation Details				7.5 - 15	7.5 - 15	3.4 - 5.2	3.4 - 5.2
Depth				1.39	15	0.7	5.2
Date Sampled				21/02/2008	19/03/2008	27/02/2008	17/03/2008
Metals							
Arsenic Dissolved Beryllium Dissolved	ug/l ug/l	50	10	1	<1	8 <1	7.9 <1
Boron Dissolved	ug/l	2000	1000			- 12	- 12
Calcium Dissolved	ug/l			68000	65000	77000	77000
Chromium Dissolved Copper Dissolved	ug/l ug/l	10	50 2000	3.1	<1 1.7	19 <1.6	5 2.6
Iron Dissolved	ug/I	1000	2000	<50	<50	7700	4900
Lead Dissolved	ug/l	1.2	10	<0.4	<0.4	<0.5	<0.4
Magnesium Dissolved	ug/l	30	50	43000	42000	94000	88000
Manganese Dissolved Nickel Dissolved	ug/l ug/l	3U 4	20	3.3	920 <1.5	2.9	3.2
Selenium Dissolved	ug/l	-	10	4	<1	8	6
Cadmium Dissolved	ug/l	0.15	5				
Vanadium Dissolved Zinc Dissolved	ug/l ug/l	75				5	3
Mercury Dissolved	ug/I	0.07	1				
Cadmium Total	ug/l	0.15	5	0.6	<0.4	18	1.6
Zinc Total	ug/l	75	_	150	67	1800	160
Mercury Total Non-Metal Inorganics	ug/l	0.07	1	0.05	0.01	<0.01	<0.01
Hardness Total	mg/l			350	340	580	550
Total Alkalinity as CaCO3	mg/l			380	340	2000	1300
BOD	mg/l	5		<1	2	78	56
COD Potassium Dissolved	mg/l mg/l			40 9.6	25 7.8	1000 41	110 36
Sodium Dissolved	mg/l		200	110	110	1200	15
Nitrate as NO3	mg/l		50	<0.3	0.3	<0.3	<0.3
Total Diss Sulphur	mg/l						
Sulphate (soluble)	mg/l	400	250	29 99	27	67	130
Chloride Sulphide	mg/l mg/l	250	250	99 <0.5	83 <0.5	<0.5	<0.5
Ammoniacal Nitrogen as N	mg/l	0.6		0.5	4.1	17	16
Unionised ammonia	mg/l						
Total Ammonium as NH4	mg/l		0.5	0.6 <0.01	<0.01	<0.01	<0.01
Phenols Monohydric Thiocyanate	mg/l mg/l			<0.01	<0.01	<0.01	<0.01
Total Cyanide	mg/l	0.001	0.05	< 0.05	<0.05	< 0.05	<0.05
Free Cyanide	mg/l						
Complex Cyanide	mg/l			14		79	
Carbon Dioxide Dissolved pH Value	ug/I pH units	6-9	6.5-10	7.84	7.55	7.5	7.77
Organics							
GRO (C4-C12)	ug/l			<10	<10	<10	<10
MTBE Benzene	ug/l ug/l	10	1	<10 <10	<10 <10	<10 <10	<10 <10
Toluene	ug/I	50	-	<10	<10	<10	<10
Ethyl benzene	ug/l	20		<10	<10	<10	<10
m & p Xylene	ug/l	30		<10	<10	<10	<10
o Xylene TPH	ug/l	30		<10	<10	<10	<10
Aliphatics C5-C6	ug/l			<10	<10	<10	<10
Aliphatics >C6-C8	ug/I	l		<10	<10	<10	<10
Aliphatics >C8-C10	ug/l			<10	<10	<10	<10
Aliphatics >C10-C12	ug/l			<10 <10	<10 <10	<10 <10	<10 350
Aliphatics >C12-C16 Aqueous Aliphatics >C16-C21 Aqueous	ug/l ug/l			<10 <10	<10	<10	350 140
Aliphatics >C21-C35 Aqueous	ug/l			<10	<10	<10	<10
Total Aliphatics C5-C35 Aqueous	ug/l			<10	<10	<10	500
Aliphatics >C35-44	ug/l						
Aromatics >C5-C7 Aromatics C6-C7	ug/l ug/l			<10	<10	<10	<10
Aromatics >C7-C8	ug/I			<10	<10	<10	<10
Aromatics >EC8-EC10	ug/l			<10	<10	<10	<10
Aromatics >EC10-EC12	ug/l			<10	<10	<10	<10
Aromatics >EC12-EC16 Aqueous Aromatics >EC16-EC21 Aqueous	ug/l ug/l			10000 1400	<10 <10	<10 <10	590 610
Aromatics >EC21-EC35 Aqueous	ug/I			240	<10	<10	510
Total Aromatics C6-C35 Aqueous	ug/l			12000	<10	<10	1700
Aromatics >C35-44	ug/l						
Total Aliphatic TPH Total Aromatic TPH	ug/l	 		-			
TPH (Aliphatics and Aromatics C5-C35)	ug/l ug/l			12000		<10	2200
Total petroleum hydrocarbons	ug/l						
TPH FTIR	ug/l						
TPH GC	ug/l						
PCBs PCB- ARO	uc/i						
PCB- ARU Cresols	ug/l ug/l						—
Pcb-101 2,2',4,5,5' - Pentachlorobipheny	ug/l						
	ug/l						
Pcb-118 2,3',4,4',5 - Pentachlorobipheny					i	i	I
Pcb-138 2,2',3,4,4',5' - Hexachlorobipher	ug/l						
Pcb-138 2,2',3,4,4',5' - Hexachlorobipher Pcb-153 2.2',4,4',5.5' - Hexachlorobipher	ug/l ug/l						
Pcb-138 2,2',3,4,4',5' - Hexachlorobipher	ug/l						

istone rormatio)fi	GFD	Glaciofluvial D	eposits																	
BH563	BH563	BH563	BH553	BH549	BH549	BH549	BH546	BH546	BH546	BH545	BH545	BH545	BH541	BH541	BH541	BH539	BH539	BH539	BH539	BH539	BH539
bnoos	BH	BH303	BH	DN343	BH	DN349	DF1340	BH BH	DR340	BN343	BH	BH343	DN341	BH	DH341	bnoog	DIDOO		BH BH	pussa	ECCUG
	MMMF		RTD		MMG			TSF						TSF		TSF	TFD	TFD	TSF	TFD	TSF
Magor	Magor	Magor	Magor	Magor	Magor	Magor	Magor	Magor	Magor	Magor	Magor	Magor	Magor	Magor	Magor	Magor	Magor	Magor	Magor	Magor	Magor
Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5	Area 5
East	East	East	East	East	East	East	East	East	East	East	East	East	East	East	East	East	East	East	East	East	East
12.37	4 - 15 12.09	13.06	3 - 6.9 6.42	Deep 9.37	Deep 11.51	Deep 10.18	3-10 5.14	3-10 6.77	3-10 6.72	6.75	7.16	7.34	2-11.5 6.67	2-11.5 6.73	2-11.5 6.73	Deep 1.97	Shallow 3.57	Shallow 2.1	Deep 2.84	Shallow 1.49	Deep 3.04
27/04/2015	05/05/2015	11/05/2015	07/05/2015	17/04/2015	24/04/2015	01/05/2015	17/04/2015	24/04/2015	01/05/2015	17/04/2015	24/04/2015	01/05/2015	31/03/2015	16/04/2015	21/04/2015	24/03/2015	14/03/2015	31/03/2015	31/03/2015	16/04/2015	16/04/2015
6.6	1.3	2.4	3.7	<lod< td=""><td><lod< td=""><td>1.6</td><td><lod< td=""><td><lod< td=""><td>1.3</td><td>1</td><td><lod< td=""><td>3.4</td><td>1.9</td><td><lod< td=""><td>25</td><td>2</td><td><lod< td=""><td>3.2</td><td>3.4</td><td>1.9</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>1.6</td><td><lod< td=""><td><lod< td=""><td>1.3</td><td>1</td><td><lod< td=""><td>3.4</td><td>1.9</td><td><lod< td=""><td>25</td><td>2</td><td><lod< td=""><td>3.2</td><td>3.4</td><td>1.9</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	1.6	<lod< td=""><td><lod< td=""><td>1.3</td><td>1</td><td><lod< td=""><td>3.4</td><td>1.9</td><td><lod< td=""><td>25</td><td>2</td><td><lod< td=""><td>3.2</td><td>3.4</td><td>1.9</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>1.3</td><td>1</td><td><lod< td=""><td>3.4</td><td>1.9</td><td><lod< td=""><td>25</td><td>2</td><td><lod< td=""><td>3.2</td><td>3.4</td><td>1.9</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	1.3	1	<lod< td=""><td>3.4</td><td>1.9</td><td><lod< td=""><td>25</td><td>2</td><td><lod< td=""><td>3.2</td><td>3.4</td><td>1.9</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	3.4	1.9	<lod< td=""><td>25</td><td>2</td><td><lod< td=""><td>3.2</td><td>3.4</td><td>1.9</td><td><lod< td=""></lod<></td></lod<></td></lod<>	25	2	<lod< td=""><td>3.2</td><td>3.4</td><td>1.9</td><td><lod< td=""></lod<></td></lod<>	3.2	3.4	1.9	<lod< td=""></lod<>
750	710	49	1900	<lod< td=""><td>40</td><td>47</td><td><lod< td=""><td>70</td><td>42</td><td><lod< td=""><td>43</td><td>160</td><td>800</td><td>1000</td><td>140</td><td>820</td><td>760</td><td>160</td><td>78</td><td>1000</td><td>960</td></lod<></td></lod<></td></lod<>	40	47	<lod< td=""><td>70</td><td>42</td><td><lod< td=""><td>43</td><td>160</td><td>800</td><td>1000</td><td>140</td><td>820</td><td>760</td><td>160</td><td>78</td><td>1000</td><td>960</td></lod<></td></lod<>	70	42	<lod< td=""><td>43</td><td>160</td><td>800</td><td>1000</td><td>140</td><td>820</td><td>760</td><td>160</td><td>78</td><td>1000</td><td>960</td></lod<>	43	160	800	1000	140	820	760	160	78	1000	960
45	6.7	27	<lod< td=""><td>6.1</td><td><lod< td=""><td><lod< td=""><td>4.1</td><td><lod< td=""><td><lod< td=""><td>11</td><td><lod< td=""><td>2.5</td><td>26</td><td>2.3</td><td>14</td><td>3.3</td><td>6.6</td><td>25</td><td>33</td><td>1.8</td><td>2.4</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	6.1	<lod< td=""><td><lod< td=""><td>4.1</td><td><lod< td=""><td><lod< td=""><td>11</td><td><lod< td=""><td>2.5</td><td>26</td><td>2.3</td><td>14</td><td>3.3</td><td>6.6</td><td>25</td><td>33</td><td>1.8</td><td>2.4</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>4.1</td><td><lod< td=""><td><lod< td=""><td>11</td><td><lod< td=""><td>2.5</td><td>26</td><td>2.3</td><td>14</td><td>3.3</td><td>6.6</td><td>25</td><td>33</td><td>1.8</td><td>2.4</td></lod<></td></lod<></td></lod<></td></lod<>	4.1	<lod< td=""><td><lod< td=""><td>11</td><td><lod< td=""><td>2.5</td><td>26</td><td>2.3</td><td>14</td><td>3.3</td><td>6.6</td><td>25</td><td>33</td><td>1.8</td><td>2.4</td></lod<></td></lod<></td></lod<>	<lod< td=""><td>11</td><td><lod< td=""><td>2.5</td><td>26</td><td>2.3</td><td>14</td><td>3.3</td><td>6.6</td><td>25</td><td>33</td><td>1.8</td><td>2.4</td></lod<></td></lod<>	11	<lod< td=""><td>2.5</td><td>26</td><td>2.3</td><td>14</td><td>3.3</td><td>6.6</td><td>25</td><td>33</td><td>1.8</td><td>2.4</td></lod<>	2.5	26	2.3	14	3.3	6.6	25	33	1.8	2.4
2.7	2.8	<lod< td=""><td>2.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.6</td><td>9.9</td><td><lod< td=""><td>8.1</td><td><lod< td=""><td>1.9</td><td>16</td><td>21</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	2.1	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.6</td><td>9.9</td><td><lod< td=""><td>8.1</td><td><lod< td=""><td>1.9</td><td>16</td><td>21</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.6</td><td>9.9</td><td><lod< td=""><td>8.1</td><td><lod< td=""><td>1.9</td><td>16</td><td>21</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.6</td><td>9.9</td><td><lod< td=""><td>8.1</td><td><lod< td=""><td>1.9</td><td>16</td><td>21</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.6</td><td>9.9</td><td><lod< td=""><td>8.1</td><td><lod< td=""><td>1.9</td><td>16</td><td>21</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.6</td><td>9.9</td><td><lod< td=""><td>8.1</td><td><lod< td=""><td>1.9</td><td>16</td><td>21</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>1.6</td><td>9.9</td><td><lod< td=""><td>8.1</td><td><lod< td=""><td>1.9</td><td>16</td><td>21</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>1.6</td><td>9.9</td><td><lod< td=""><td>8.1</td><td><lod< td=""><td>1.9</td><td>16</td><td>21</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>1.6</td><td>9.9</td><td><lod< td=""><td>8.1</td><td><lod< td=""><td>1.9</td><td>16</td><td>21</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	1.6	9.9	<lod< td=""><td>8.1</td><td><lod< td=""><td>1.9</td><td>16</td><td>21</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	8.1	<lod< td=""><td>1.9</td><td>16</td><td>21</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	1.9	16	21	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
<1	<lod< td=""><td><lod< td=""><td>4.4</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>4.4</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< 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8.5	41	1.5	16	19	1.5	<lod< td=""><td>1.4</td><td><lod< td=""><td><lod< td=""><td>3.1</td><td>4.7</td><td>94</td><td>3.3</td><td><lod< td=""><td>29</td><td>1.4</td><td>1.1</td><td>5.9</td><td>7.6</td><td>2.5</td><td>3.4</td></lod<></td></lod<></td></lod<></td></lod<>	1.4	<lod< td=""><td><lod< td=""><td>3.1</td><td>4.7</td><td>94</td><td>3.3</td><td><lod< td=""><td>29</td><td>1.4</td><td>1.1</td><td>5.9</td><td>7.6</td><td>2.5</td><td>3.4</td></lod<></td></lod<></td></lod<>	<lod< td=""><td>3.1</td><td>4.7</td><td>94</td><td>3.3</td><td><lod< td=""><td>29</td><td>1.4</td><td>1.1</td><td>5.9</td><td>7.6</td><td>2.5</td><td>3.4</td></lod<></td></lod<>	3.1	4.7	94	3.3	<lod< td=""><td>29</td><td>1.4</td><td>1.1</td><td>5.9</td><td>7.6</td><td>2.5</td><td>3.4</td></lod<>	29	1.4	1.1	5.9	7.6	2.5	3.4
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				0.028	0.046	0.056				0.023	0.047	0.032	<lod< td=""><td>0.054</td><td>1.4</td><td>0.45</td><td>0.23</td><td>0.78</td><td>0.17</td><td>0.41</td><td>0.041</td></lod<>	0.054	1.4	0.45	0.23	0.78	0.17	0.41	0.041
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8.5	7.8	8.4	7.6	7.5	8.3	7.9	7.7	8.4	7.9	7.5	8.3	8	8.1	8.6	8.3	7.7	7.8	7.8	7.9	8.4	8.6
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Monitoring Round Location	Units	Screening EQS	DWS	SBHD06	SBHD06	SBHJ03	SBHJ03
Phenois							
Dimethylphenols Trimethylphenols	ug/l ug/l						
2-Chlorophenol 2 - Methyl-4,6-Dinitrophenol	ug/l ug/l	50		<1	<1	<1	<1
2-Methylphenol 2-Nitrophenol	ug/l ug/l	100		<1	<1	⊲ ⊲	<1
2,4-Dichlorophenol 2,4-Dimethylphenol	ug/l ug/l	20		<1	<1	<1	<1
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	ug/l ug/l			<1	41	4	<1
4-Chloro-3-methylphenol 4-Methylphenol	ug/l ug/l	40 100		41	41	4	<1
4-Nitrophenol Pentachlorophenol	ug/l ug/l	0.4		<1	<1 <1	41	41
Phenol Phenols	ug/I mg/I	7.7		<1	41	4	<1
PAHs		0.0077					
2-Chloronaphthalene 2-Methylnaphthalene	ug/l ug/l			<1	<1	<1	<1
Acenaphthene Acenaphthylene	ug/l ug/l			<1 <1	<1	<1	<1
Anthracene Benzo(a)anthracene	ug/l ug/l	0.1		<1 <1	<1 <1	<1 <1	⊲ 1
Benzo(a)pyrene Benzo(b)fluoranthene	ug/l ug/l	0.00017 0.017	0.01	<1	<1	<1	<1
Benzo(ghi)perylene Benzo(k)fluoranthene	ug/l ug/l	0.0082 0.017	0.1	<1	<1	<1	<1 <1
Chrysene Dibenzo(a,h)anthracene	ug/l ug/l			<1	<1 <1	<1	<1
Fluoranthene Fluorene	ug/l ug/l	0.0063		<1	<1	<1 <1	<1
Indeno(1,2,3-cd)pyrene	ug/l	2	0.1	<1	4	<1 <1	41
Naphthalene Phenanthrene	ug/l ug/l	- 2		<1	<1	<1	<1
Pyrene Total PAHs (USEPA 16)	ug/l ug/l			<1	<1	<1	<1
Phthalates Bis(2-ethylhexyl) phthalate	ug/l	1.3		<2	<2	<2	<2
Butylbenzyl phthalate Di-n-butyl phthalate	ug/l ug/l	20 8		<1 <1	<1	<1	<1
Di-n-Octyl phthalate Diethyl phthalate	ug/l ug/l	20 200		<5 <1	<5 <1	<5 <1	<5 <1
Dimethyl phthalate VOCs	ug/l	800		<1	<1	<1	<1
Full suite 1.1.1.2-Tetrachloroethane	ug/l ug/l			<1	<1	<1	<1
1,1,1-Trichloroethane 1,1,1,2,2-Tetrachloroethane	ug/l ug/l	100 #N/A	#N/A	<1	4	<1 <1	41
1,1,2-Trichloroethane 1,1-Dichloroethane	ug/I ug/I	400	yA	<1	4	4	4
1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene	ug/I ug/I ug/I			<1	4	4	4
1,2,3-Trichlorobenzene	ug/l	0.4		<1	<1	<1	<1
1,2,3-Trichloropropane 1,2,4-Trichlorobenzene	ug/l ug/l	0.4		<1	<1	<1	<1
1,2,4-Trimethylbenzene 1,2-Dibromo-3-Chloropropane	ug/l ug/l			<1	<1	<1	<1
1,2-Dibromoethane 1,2-Dichlorobenzene	ug/l ug/l	20		<1	<1	<1	<1
1,2-Dichloroethane 1,2-Dichloropropane	ug/l ug/l	10	3	<1	<1	<1	<1
1,3,5-Trimethylbenzene 1,3-Dichloropropane	ug/l ug/l			<1	<1 <1	<1	<1
1,4-Dichlorobenzene 2-Chlorotoluene	ug/l ug/l	20		<1	<1	<1	<1 <1
4-Chlorotoluene 4-Isopropyltoluene	ug/l ug/l			<1 <1	<1	<1 <1	<1 <1
Benzene Bromohenzene	ug/l ug/l	10	1	<1	4	4	<1
Bromochloromethane Bromodichloromethane	ug/l ug/l		100	<1	4	4	<1
Bromoform Bromomethane	ug/l ug/l			<1	<1 <1	41	41
Carbon Disulphide Chlorobenzene	ug/l			<1 <1	4	41	41
Chloroethane	ug/l ug/l			<1	<1	<1	4
Chloroethene Chloroform	ug/l ug/l	2.5	100	<1	<1	<1	<1
Chloromethane cis-1,2-Dichloroethene	ug/l ug/l			<1 <1	<1	<1 <1	<1
cis-1,3-Dichloropropene Dibromochloromethane	ug/l ug/l		100	<1	<1	<1	41
Dibromomethane Dichlorodifluoromethane	ug/l ug/l			<1 <1	<1	<1	41
Dichloromethane Ethylbenzene	ug/l ug/l	20		<1 <1	<1	<1	<1 <1
Hexachlorobutadiene (HCBD) Isopropylbenzene	ug/l ug/l	0.6		<1	<1	<1	<1 <1
m,p xylenes Methyl tert-butyl ether (MTBE)	ug/l ug/l	30		<1	<1	<1	<1
n-Butylbenzene n-propylbenzene	ug/l ug/l			<1	<1	41	<1
O-Xylene Sec-Butylbenzene	ug/l ug/l	30		<1	<1	41	41
Styrene Tert-Butylbenzene	ug/l	50		<1	<1	41	4
Tetrachloroethene	ug/l ug/l	10 12	10	<1	4	4	4
Tetrachloromethane (Carbon Tetra Chlor Toluene	ug/l ug/l	12 50	3	<1	<1	2	<1 <1
trans-1,2-Dichloroethene trans-1,3-Dichloropropene	ug/l ug/l		100	<1 <1	4	4	<1
Tribromomethane Trichloroethene	ug/l ug/l	10	100 10	<1	<1	<1	<1
Trichlorofluoromethane Vinly Chloride	ug/l ug/l	#N/A	#N/A	<1 <1	4	<1	<1
Other Semi-Volatiles 1,2-Dichlorobenzene	ug/I	20		<1	<1	<1	<1
1,2,4-Trichlorobenzene 1,3-Dichlorobenzene	ug/l ug/l	0.4 20		<1	<1	<1	<1 <1
1,4-Dichlorobenzene 2-Nitroaniline	ug/l ug/l	20		<1 <1	<1	<1	<1 <1
2,4-Dinitrotoluene 2,6-Dinitrotoluene	ug/l ug/l			<1	<1	<1	<1
2-Methylnaphthalene 3-Nitroaniline	ug/l			<1	4	4	41
4-Bromophenylphenylether	ug/l			<1	4	4	4
4-Chloroaniline 4-Chlorophenylphenylether	ug/l ug/l			<1	<1	<1	<1
4-Nitroaniline Azobenzene	ug/l ug/l			<1	<1	<1	<1
Bis(2-chloroethoxy)methane Bis(2-chloroethyl)ether	ug/l ug/l			<1	<1	<1	<1 <1
Bis(2-chloroisopropyl)ether Carbazole	ug/l ug/l			<1	<1	<1	<1
Dibenzofuran Hexachlorobenzene	ug/l ug/l	0.05		<1	<1	<1	<1
Hexachlorobutadiene Hexachlorocyclopentadiene	ug/l ug/l	0.6		<1	<1	<1 <1	<1
Hexachloroethane Isophorone	ug/l ug/l			<1	41	4	41
	ug/I ug/I	-		<1	<1	<1	<1

BH563	BH563	BH563	BH553	BH549	BH549	BH549	BH546	BH546	BH546	BH545	BH545	BH545	BH541	BH541	BH541	BH539	BH539	BH539	BH539	BH539	BH539
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				100	100	400				100		100	100	100				100	100	100	100
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Monitoring Round		Screening	g Criteria																																
Location Location Type				BH537	BH537	BH537	BH537	BH537	BH537	BH536A	BH536A	BH536A	BH536A	BH536A	BH536A	BH536A	BH536A	BH534	BH534	BH534	BH534	BH534	BH534	BH533	BH533	BH533	BH533	BH533	BH533	BH510	BH510	BH510	BH510	BH510	BH510
Response Zone (RZ) Details				PEAT	MMG	PEAT	MMG	PEAT	MMG	RTD	TDF			RTD	TDF			TFD	MMG	TFD	MMG	TFD	MMG	TFD	TFD	TFD	TFD	TFD	TFD	TFD	TFD/MMG	TFD	TFD/MMG	TFD	TFD/MMG
Drainage Area	Units	EQS	DWS	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Levels	Caldicot Levels Area 4	Caldicot Levels Area 4
Installation Details Depth				Shallow 0.46	Deep 2.62	Shallow 0.18	Deep 1.16	Shallow 0.69	Deep 0.89	Deep 0	Shallow 0	1.02	1.98	Deep	Shallow	1.05	1.96	Shallow 0.76	Deep 0.9	Shallow 1.85	Deep 5.48	Shallow 1.92	Deep 6.63	Shallow 1.02	Deep 1.12	Shallow 3.85	Deep 5.87	Shallow 3.36	Deep 6.88	Shallow 0.68	Deep 0.87	Shallow 2.52	Deep 7.34	Shallow 2.82	Deep 5.84
Date Sampled				24/03/2015						03/03/2015				27/03/2015	27/03/2015				03/03/2015				17/03/2015				10/03/2015			04/03/2015		12/03/2015			18/03/2015
Metals	/1	50	10	1.8	2.1	12	5.8	2.8	-	1.3	1.5	<lod< th=""><th>2.1</th><th>4.1</th><th>8.5</th><th>3.5</th><th>4.8</th><th>9.6</th><th>10</th><th>4.3</th><th>AG</th><th>9</th><th>cc</th><th></th><th>8.8</th><th>12</th><th>12</th><th>16</th><th>16</th><th>6.7</th><th>17</th><th>22</th><th>42</th><th>10</th><th>27</th></lod<>	2.1	4.1	8.5	3.5	4.8	9.6	10	4.3	AG	9	cc		8.8	12	12	16	16	6.7	17	22	42	10	27
Arsenic Dissolved Beryllium Dissolved	ug/l ug/l					15			,										10		40		33		0.0	13	13	I.	10		17	22	43	10	
Boron Dissolved Calcium Dissolved	ug/l ug/l	2000	1000	730	820	150	79	900	1200	790	980	630	570	1000	1200	740	750	1700	300	1800	1000	1100	750	3600	4100	3100	4500	2600	3800	760	340	2300	600	1400	940
Chromium Dissolved	ug/l		50	4.5	3.2	84	36	2	3	8.4	8.4	2.1	2.1	26	51	46	56	37	53	26	120	68	130	27	26	78	63	86	91	20	56	36	62	57	120
Copper Dissolved Iron Dissolved	ug/l ug/l	10 1000	2000	1.1	1.6	33	22	<lod< td=""><td><lod< td=""><td>6</td><td>7.3</td><td><lod< td=""><td><lod< td=""><td>9.2</td><td>13</td><td><lod< td=""><td>3</td><td>88</td><td>77</td><td>4.8</td><td>26</td><td>18</td><td>47</td><td>7.6</td><td>17</td><td>16</td><td>17</td><td>54</td><td>82</td><td>5</td><td>52</td><td>23</td><td>24</td><td>39</td><td>150</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>6</td><td>7.3</td><td><lod< td=""><td><lod< td=""><td>9.2</td><td>13</td><td><lod< td=""><td>3</td><td>88</td><td>77</td><td>4.8</td><td>26</td><td>18</td><td>47</td><td>7.6</td><td>17</td><td>16</td><td>17</td><td>54</td><td>82</td><td>5</td><td>52</td><td>23</td><td>24</td><td>39</td><td>150</td></lod<></td></lod<></td></lod<></td></lod<>	6	7.3	<lod< td=""><td><lod< td=""><td>9.2</td><td>13</td><td><lod< td=""><td>3</td><td>88</td><td>77</td><td>4.8</td><td>26</td><td>18</td><td>47</td><td>7.6</td><td>17</td><td>16</td><td>17</td><td>54</td><td>82</td><td>5</td><td>52</td><td>23</td><td>24</td><td>39</td><td>150</td></lod<></td></lod<></td></lod<>	<lod< td=""><td>9.2</td><td>13</td><td><lod< td=""><td>3</td><td>88</td><td>77</td><td>4.8</td><td>26</td><td>18</td><td>47</td><td>7.6</td><td>17</td><td>16</td><td>17</td><td>54</td><td>82</td><td>5</td><td>52</td><td>23</td><td>24</td><td>39</td><td>150</td></lod<></td></lod<>	9.2	13	<lod< td=""><td>3</td><td>88</td><td>77</td><td>4.8</td><td>26</td><td>18</td><td>47</td><td>7.6</td><td>17</td><td>16</td><td>17</td><td>54</td><td>82</td><td>5</td><td>52</td><td>23</td><td>24</td><td>39</td><td>150</td></lod<>	3	88	77	4.8	26	18	47	7.6	17	16	17	54	82	5	52	23	24	39	150
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Nickel Dissolved	ug/l	4	20	2.8	1.6	4.3	<lod< td=""><td>1.5</td><td><lod< td=""><td>1.8</td><td>2.7</td><td><lod< td=""><td><lod< td=""><td>1.4</td><td>1.8</td><td>1.2</td><td>1.7</td><td>10</td><td>6.3</td><td>6.1</td><td>11</td><td>11</td><td>8.6</td><td>10</td><td>7.3</td><td>10</td><td>18</td><td>14</td><td>19</td><td>2.2</td><td>12</td><td><lod< td=""><td>4.5</td><td>13</td><td>13</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	1.5	<lod< td=""><td>1.8</td><td>2.7</td><td><lod< td=""><td><lod< td=""><td>1.4</td><td>1.8</td><td>1.2</td><td>1.7</td><td>10</td><td>6.3</td><td>6.1</td><td>11</td><td>11</td><td>8.6</td><td>10</td><td>7.3</td><td>10</td><td>18</td><td>14</td><td>19</td><td>2.2</td><td>12</td><td><lod< td=""><td>4.5</td><td>13</td><td>13</td></lod<></td></lod<></td></lod<></td></lod<>	1.8	2.7	<lod< td=""><td><lod< td=""><td>1.4</td><td>1.8</td><td>1.2</td><td>1.7</td><td>10</td><td>6.3</td><td>6.1</td><td>11</td><td>11</td><td>8.6</td><td>10</td><td>7.3</td><td>10</td><td>18</td><td>14</td><td>19</td><td>2.2</td><td>12</td><td><lod< td=""><td>4.5</td><td>13</td><td>13</td></lod<></td></lod<></td></lod<>	<lod< td=""><td>1.4</td><td>1.8</td><td>1.2</td><td>1.7</td><td>10</td><td>6.3</td><td>6.1</td><td>11</td><td>11</td><td>8.6</td><td>10</td><td>7.3</td><td>10</td><td>18</td><td>14</td><td>19</td><td>2.2</td><td>12</td><td><lod< td=""><td>4.5</td><td>13</td><td>13</td></lod<></td></lod<>	1.4	1.8	1.2	1.7	10	6.3	6.1	11	11	8.6	10	7.3	10	18	14	19	2.2	12	<lod< td=""><td>4.5</td><td>13</td><td>13</td></lod<>	4.5	13	13
Selenium Dissolved Cadmium Dissolved	ug/l ug/l	0.15	10 5	2.1 <lod< td=""><td>1.8 <lod< td=""><td>2.1 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>8.4 <lod< td=""><td>7.1 <lod< td=""><td>2.1 0.78</td><td>2.7 0.83</td><td>2.1 <lod< td=""><td>8 <lod< td=""><td><lod <lod< td=""><td>2.4 <lod< td=""><td>8.1 <lod< td=""><td><lod< td=""><td>10 <lod< td=""><td><lod< td=""><td><lod< td=""><td>66 <lod< td=""><td>13 <lod< td=""><td>9.9 <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>8.4 <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod 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Total Alkalinity as CaCO3	mg/l mg/l																																		
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Sulphate (soluble) Chloride	mg/l mg/l	400 250	250 250							37	38	39	38	42	60	38	38																		
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Ammoniacal Nitrogen as N Unionised ammonia	mg/l mg/l	0.6								0.15	0.12	0.19	0.76	0.23	0.25	0.19	0.23																		$\overline{}$
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Total Cyanide	mg/l	0.001	0.05	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< 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Carbon Dioxide Dissolved pH Value	ug/l pH units	6-9	6.5-10	7.6	8	7.7	8.1	8.6	8.8	8.7	8.8	8.2	8.1	8	8	8.6	8.7	7.9	8.3	7.6	7.8	7.6	8	7.2	7.2	7.4	7.3	7.6	7.2	7.6	8	7.8	7.8	7.6	8.4
Organics	priunits	0,5	0.5 10	7.0	Ü	7.7	0.1	0.0	0.0	0.7	0.0	0.2	0.1		Ü	0.0	0.7	7.5	0.5	7.0	7.0	7.0	Ü	7.2	7.2	7.4	7.3	7.0	7.2	7.0	Ü	7.0	7.0	7.0	- 0.4
GRO (C4-C12) MTBE	ug/l ug/l																																		
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TPH FTIR	ug/l				1																														
TPH GC PCBs	ug/I																																		
PCB- ARO	ug/l																																		
Cresols Pcb-101 2,2',4,5,5' - Pentachlorobiphe	ug/l ug/l																																	+	
Pcb-118 2,3',4,4',5 - Pentachlorobiphe	ug/l																																		
Pcb-138 2,2',3,4,4',5' - Hexachlorobip Pcb-153 2,2',4,4',5,5' - Hexachlorobip	ug/l ug/l																																		-
Pcb-180 2,2',3,4,4',5,5' - Heptachlorol Pcb-28 2,4,4' - Trichlororbiphenyl	l ug/l																																		
Pcb-28 2,4,4' - Trichlororbiphenyl Pcb-52 2,2',5,5' - Tetrachlorobiphenyl	ug/l l ug/l																																		

Monitoring Round		Screening Crit	eria																																
Location	Units	EQS	DWS	ВН537	BH537	BH537	BH537	BH537	BH537	BH536A	BH536A	BH536A	BH536A	BH536A	BH536A	BH536A	BH536A	BH534	BH534	BH534	BH534	BH534	BH534	BH533	BH533	BH533	BH533	BH533	BH533	BH510	BH510	BH510	BH510	BH510	BH510
Phenols Dimethylphenols Trimethylphenols	ug/l ug/l																																		
2-Chlorophenol 2 - Methyl-4,6-Dinitrophenol	ug/l ug/l	50																																	
2-Methylphenol 2-Nitrophenol	ug/l ug/l																																		
2,4-Dichlorophenol 2,4-Dimethylphenol 2,4,5-Trichlorophenol	ug/l ug/l ug/l	20																																	
2,4,6-Trichlorophenol 4-Chloro-3-methylphenol	ug/l ug/l	40																																	
4-Methylphenol 4-Nitrophenol	ug/l ug/l																																		
Pentachlorophenol Phenol Phenols	ug/l ug/l mg/l	7.7								<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<>	<lod< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<>																		
PAHs 2-Chloronaphthalene	ug/l																																		
2-Methylnaphthalene Acenaphthene	ug/l ug/l			<lod< td=""><td><lod< td=""><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< 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Di-n-butyl phthalate Di-n-Octyl phthalate Diethyl phthalate	ug/l ug/l ug/l	20 200																																	
Dimethyl phthalate VOCs	ug/I																																		
Full suite 1,1,1,2-Tetrachloroethane	ug/l ug/l	100																																	
1,1,1-Trichloroethane 1,1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	ug/l ug/l ug/l	100 #N/A 400	#N/A																															=	
1,1-Dichloroethane 1,1-Dichloroethene	ug/l ug/l																																		
1,1-Dichloropropene 1,2,3-Trichlorobenzene	ug/l ug/l	0.4																																	
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1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane	ug/l ug/l ug/l	20 10	3																																
1,3,5-Trimethylbenzene 1,3-Dichloropropane	ug/l ug/l																																		
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4-Chlorotoluene 4-Isopropyltoluene Benzene	ug/l ug/l ug/l	10	1	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< 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Chloroform Chloromethane cis-1.2-Dichloroethene	ug/l ug/l ug/l		100																																
cis-1,3-Dichloropropene Dibromochloromethane	ug/l ug/l		100																																
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trans-1,2-Dichloroethene trans-1,3-Dichloropropene	ug/l ug/l		400							-																									
Tribromomethane Trichloroethene Trichlorofluoromethane	ug/l ug/l ug/l	10	100 10																															=	
Vinly Chloride Other Semi-Volatiles	ug/l	#N/A	#N/A																																
1,2-Dichlorobenzene 1,2,4-Trichlorobenzene	ug/l ug/l																																		
1,3-Dichlorobenzene 1,4-Dichlorobenzene 2-Nitroaniline	ug/l ug/l ug/l	20																																=	
2,4-Dinitrotoluene 2,6-Dinitrotoluene	ug/l ug/l																																		
2-Methylnaphthalene 3-Nitroaniline	ug/l ug/l																																	\exists	
4-Bromophenylphenylether 4-Chloroaniline 4-Chlorophenylphenylether	ug/l ug/l ug/l																																		
4-Nitroaniline Azobenzene	ug/l ug/l																																		
Bis(2-chloroethoxy)methane Bis(2-chloroethyl)ether	ug/l ug/l																																	$\equiv \exists$	
Bis(2-chloroisopropyl)ether Carbazole Dibenzofuran	ug/l ug/l ug/l																																		
Hexachlorobenzene Hexachlorobutadiene	ug/l ug/l	0.05																																	
Hexachlorocyclopentadiene Hexachloroethane	ug/l ug/l																		=															$= \exists$	
Isophorone N-nitrosodi-n-propylamine Nitrobenzene	ug/l ug/l ug/l																																	=	
overneere	ug/I					1																													

Monitoring Round		Screening	Criteria	DUFOC	DUEOC	BH506	BUILDE	DUFOC	DUFOC	DUFOZA	DUFOZA	DUFOZA	DUFOZA	DUFOZA	DUFOZA	DUASS	DUATE	DUASS	DUATE	DUATE	DUATE	DUIAGO	DUIAGO	DUIAGO	DUADO	011400	BH404	DUADA	DUADA	DUADA	DUADA	DUIADA	DUIADS	DUADS	BUZZEC	DUIZZEC	BUZZEC	DUIZZEC	BURRE
Location Type	İ			опоче	BHSUG	BHSU0	Впоио	ВПЭОВ	BHSUG	DISUSA	БПЭОЗА	bnousa	БПЭИЗА	БПЭОЗА	BHOUSA	DR411	DU411	BH		DU411	DU411	DN4U0	DR4U6	BH	DT400	DR4U6	DN404	DR404	BH	DR404	DП404	DH4U1	BH	BN401	BH323C	впадас	BH	впэгэс	ВПЗИЗС
Response Zone (RZ) Details				TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG	TFD	MMG					TFD	GFD			TFD or GFD			GFD	TFD T	FD or GFD T	TFD or GFD	TFD or GFD	TFD	TFD	TFD	TFD	TFD	MMG	TFD	MMG
Drainage Area	Units	EQS	DWS	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Caldicot Levels Area 4	Wentloog Levels Area 2	Wentloog Levels Area 2	Wentloog Levels Area 2	Wentloog Levels Area 2	Wentloog Levels Area 2	Wentloog Levels Area 2	Wentloog Levels Area 2	Wentloog Levels Area 2	Wentloog Levels Area 2	Wentloog Levels Area 2	Wentloog Levels Area 2	Levels	Levels	Levels	Wentloog Levels Area 2	Wentloog Levels Area 2	Wentloog Levels Area 2	Wentloog Levels Area 2	Wentloog Levels Area 2	Wentloog Levels Area 2	Wentloog Levels Area 2	Wentloog Levels Area 2	Wentloog Levels Area 2	Wentloog Levels Area 2
Installation Details				Shallow	Deep 11.62	Shallow 5.83	Deep 10.17	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	5.80		6.17		Shallow 5.26	Deep	2.40	2.42	2.70	2.01	2 11	Deep !	Shallow		1.44	1 20	7.5-13		7.5-13	Shallow	Shallow 3.96	Deep	Shallow	Deep
Depth Date Sampled																											02/03/2015 02	/03/2015 09											
Metals																																							
Arsenic Dissolved Beryllium Dissolved	ug/l	50	10	10	18	5.2	25	22	43	32	6.4	69	12	19	9.1	8.4	15	5.5	10	9	9.4						<lod< td=""><td>6.2</td><td>7.1</td><td>2.5</td><td>1.8</td><td><lod< td=""><td><lod< td=""><td>1.1</td><td>2.4</td><td>3.3</td><td>1.4</td><td>17</td><td>2.4</td></lod<></td></lod<></td></lod<>	6.2	7.1	2.5	1.8	<lod< td=""><td><lod< td=""><td>1.1</td><td>2.4</td><td>3.3</td><td>1.4</td><td>17</td><td>2.4</td></lod<></td></lod<>	<lod< td=""><td>1.1</td><td>2.4</td><td>3.3</td><td>1.4</td><td>17</td><td>2.4</td></lod<>	1.1	2.4	3.3	1.4	17	2.4
Boron Dissolved	ug/l ug/l	2000	1000	850	610	640	510	1200	1500	810	540	1700	1800	820	610	1300	680	1400	780	680	840						480	610	830	160	210	2400	1200	1600	590	370	110	4100	950
Calcium Dissolved	ug/l																																						
Chromium Dissolved Copper Dissolved	ug/l ug/l	10	2000	18 9.4	37	7.3	28 7.8		17 16		4.5	320 73	41 7.4	36 48	20	6.6	7.5 4.1	6.5	7.8 3.9	<lod 3.3</lod 	<lod 2.6</lod 							<lod <</lod 		1.1 <lod< td=""><td>7.9 1.5</td><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td><lod <lod< td=""><td>3.8 <lod< td=""><td>1.4 <lod< td=""><td>25</td><td>16 1.4</td></lod<></td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<>	7.9 1.5	<lod <lod< td=""><td><lod <lod< td=""><td></td><td><lod <lod< td=""><td>3.8 <lod< td=""><td>1.4 <lod< td=""><td>25</td><td>16 1.4</td></lod<></td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td></td><td><lod <lod< td=""><td>3.8 <lod< td=""><td>1.4 <lod< td=""><td>25</td><td>16 1.4</td></lod<></td></lod<></td></lod<></lod </td></lod<></lod 		<lod <lod< td=""><td>3.8 <lod< td=""><td>1.4 <lod< td=""><td>25</td><td>16 1.4</td></lod<></td></lod<></td></lod<></lod 	3.8 <lod< td=""><td>1.4 <lod< td=""><td>25</td><td>16 1.4</td></lod<></td></lod<>	1.4 <lod< td=""><td>25</td><td>16 1.4</td></lod<>	25	16 1.4
Iron Dissolved	ug/l	1000	200																												9								
Lead Dissolved Magnesium Dissolved	ug/I	1.2	10	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>2.2</td><td>1.2</td><td></td><td></td><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< 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Manganese Dissolved Manganese Dissolved	ug/l ug/l	30	50																																				
Nickel Dissolved	ug/l	4	20	5.3	5.8	5.4	3.1	4.6					2.5			2.2		8.4	6.1	1.7	5.7							<lod< td=""><td></td><td>1.6</td><td></td><td></td><td>3.1</td><td></td><td>32</td><td></td><td>1.7</td><td></td><td>1.5</td></lod<>		1.6			3.1		32		1.7		1.5
Selenium Dissolved Cadmium Dissolved	ug/I	0.15	10 5			2.1 <lod< td=""><td></td><td></td><td></td><td>60 <lod< td=""><td></td><td>230</td><td>11 <lod< td=""><td>25 <lod< td=""><td>1.6 <lod< td=""><td></td><td></td><td></td><td></td><td>3.2 0.12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.4 <lod< td=""><td></td><td>2.4</td><td>1.9</td><td>1.5</td><td>2.4</td><td>6.5</td><td>4.1 <lod< td=""><td>1</td><td>48 <100</td><td>2.2</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>				60 <lod< td=""><td></td><td>230</td><td>11 <lod< td=""><td>25 <lod< td=""><td>1.6 <lod< td=""><td></td><td></td><td></td><td></td><td>3.2 0.12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.4 <lod< td=""><td></td><td>2.4</td><td>1.9</td><td>1.5</td><td>2.4</td><td>6.5</td><td>4.1 <lod< td=""><td>1</td><td>48 <100</td><td>2.2</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>		230	11 <lod< td=""><td>25 <lod< td=""><td>1.6 <lod< td=""><td></td><td></td><td></td><td></td><td>3.2 0.12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.4 <lod< td=""><td></td><td>2.4</td><td>1.9</td><td>1.5</td><td>2.4</td><td>6.5</td><td>4.1 <lod< td=""><td>1</td><td>48 <100</td><td>2.2</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	25 <lod< td=""><td>1.6 <lod< td=""><td></td><td></td><td></td><td></td><td>3.2 0.12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.4 <lod< td=""><td></td><td>2.4</td><td>1.9</td><td>1.5</td><td>2.4</td><td>6.5</td><td>4.1 <lod< td=""><td>1</td><td>48 <100</td><td>2.2</td></lod<></td></lod<></td></lod<></td></lod<>	1.6 <lod< td=""><td></td><td></td><td></td><td></td><td>3.2 0.12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.4 <lod< td=""><td></td><td>2.4</td><td>1.9</td><td>1.5</td><td>2.4</td><td>6.5</td><td>4.1 <lod< td=""><td>1</td><td>48 <100</td><td>2.2</td></lod<></td></lod<></td></lod<>					3.2 0.12									2.4 <lod< td=""><td></td><td>2.4</td><td>1.9</td><td>1.5</td><td>2.4</td><td>6.5</td><td>4.1 <lod< td=""><td>1</td><td>48 <100</td><td>2.2</td></lod<></td></lod<>		2.4	1.9	1.5	2.4	6.5	4.1 <lod< td=""><td>1</td><td>48 <100</td><td>2.2</td></lod<>	1	48 <100	2.2
Vanadium Dissolved	ug/l ug/l	0.13	,	\LOD	\LOD	1200	1200	100	100	1200	1200	100	1200	1000	\L00	0.000	\LUD	0.14	0.000	0.12	100						\L00	100	100	100	100	\L0D	1000	100	\LUD	100	100	100	100
Zinc Dissolved	ug/I	75		4		3.6		10		6.6	2.7		3.6				2.9			<lod< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.8</td><td></td><td></td><td>1</td></lod<>																2.8			1
Mercury Dissolved Cadmium Total	ug/l	0.07 0.15	1 5	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>2.3</td><td>1.9</td><td>0.97</td><td>0.92</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< 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Zinc Total	ug/l ug/l	75	-			+		1																															
Mercury Total	ug/l	0.07	1																																				
Non-Metal Inorganics																																							
Hardness Total Total Alkalinity as CaCO3	mg/l mg/l																																						
BOD	mg/I	5																																					-
COD	mg/l																																						
Potassium Dissolved Sodium Dissolved	mg/I mg/I		200																																				
Nitrate as NO3	mg/l		50																																				_
Total Diss Sulphur	mg/l																																						
Sulphate (soluble) Chloride	mg/I	400 250	250 250	860	3000	1300	2000	1800	2200							840	840	1200	800										37	49	60				19	21	22	20	24
Sulphide	mg/I mg/I	230	230	000	5000	1300	2000	1000	2200							010	0.0	1200	555										32	40	00				13			20	
Ammoniacal Nitrogen as N	mg/I	0.6		5.8	10	16	13	19	13							4.3	4.6	7.8	6.5										0.03	0.017	0.052				5.4	4.4	0.033	5	0.03
Unionised ammonia Total Ammonium as NH4	mg/I		0.5																																				
Phenois Monohydric	mg/l mg/l		0.5																																				
Thiocyanate	mg/I																																						
Total Cyanide Free Cyanide	mg/I	0.001	0.05	<100	<100	<lod< td=""><td><1.00</td><td><100</td><td><100</td><td><100</td><td><100</td><td><100</td><td><100</td><td><100</td><td><100</td><td><100</td><td><100</td><td><100</td><td><100</td><td><lod< td=""><td><100</td><td></td><td></td><td></td><td></td><td></td><td><100</td><td><100</td><td><100</td><td><100</td><td><100</td><td><100</td><td><100</td><td><100</td><td><100</td><td><lod< td=""><td><100</td><td><100</td><td><100</td></lod<></td></lod<></td></lod<>	<1.00	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<lod< td=""><td><100</td><td></td><td></td><td></td><td></td><td></td><td><100</td><td><100</td><td><100</td><td><100</td><td><100</td><td><100</td><td><100</td><td><100</td><td><100</td><td><lod< td=""><td><100</td><td><100</td><td><100</td></lod<></td></lod<>	<100						<100	<100	<100	<100	<100	<100	<100	<100	<100	<lod< td=""><td><100</td><td><100</td><td><100</td></lod<>	<100	<100	<100
Complex Cyanide	mg/l mg/l			\LOD	\L0D	1200	1200	1200	100	1200	1200	100	1200	1000	\L00	1200	\LUD	100	100	100	100						LOD	1000	100	\LUD	\LU0	\L0D	\L00	100	\LOD	\LOD	100	100	CLOD
Carbon Dioxide Dissolved	ug/l																																						
pH Value	pH units	6-9	6.5-10	8.8	8.8	8.2	8.2	7.2	7.4	7.4	7.4	7.3	7.8	8.1	8.4	8.2	7.6	7.9	7.5	7.7	7.5						8.2	8.2	8.4	8.4	8.5	7.9	8.1	8	7.9	7.8	8.4	7.9	8.6
Organics GRO (C4-C12)	ug/l																																						
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Aliphatics >C21-C35 Aqueous	ug/l			<lod< td=""><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td><lod< td=""><td><lod< td=""><td></td><td><lod< td=""><td></td><td></td><td></td><td><lod< td=""><td></td><td></td><td><lod< td=""><td><lod< td=""><td>810</td><td><lod< td=""><td><lod< td=""><td></td><td></td><td><lod< td=""><td></td><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod< td=""><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>		<lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td><lod< td=""><td><lod< td=""><td></td><td><lod< td=""><td></td><td></td><td></td><td><lod< td=""><td></td><td></td><td><lod< td=""><td><lod< td=""><td>810</td><td><lod< td=""><td><lod< td=""><td></td><td></td><td><lod< td=""><td></td><td></td><td></td><td></td><td><lod< 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Total Aliphatics C5-C35 Aqueous Aliphatics >C35-44	ug/l			<100	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><10n</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>31</td><td><100</td><td><100</td><td></td><td>-</td><td><iod< td=""><td><100</td><td><lod< td=""><td><i od<="" td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><100</td><td><lod< td=""><td><i od<="" td=""><td><100</td><td><lod< td=""></lod<></td></i></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></i></td></lod<></td></iod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< 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PCBs PCB- ARO	ug/l	1																																					
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Pcb-101 2,2',4,5,5' - Pentachlorobiphenyl	ug/l					\perp		H								<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>				<lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td></td><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>					<lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>				<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Pcb-118 2,3',4,4',5 - Pentachlorobiphenyl Pcb-138 2,2',3,4,4',5' - Hexachlorobiphenyl	ug/l ug/l					+	1	-	1							<lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td></td><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod <lod< td=""><td><10D</td><td><10D</td><td><lod <lod< td=""></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td></td><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod <lod< td=""><td><10D</td><td><10D</td><td><lod <lod< td=""></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td></td><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod <lod< td=""><td><10D</td><td><10D</td><td><lod <lod< td=""></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td></td><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod <lod< td=""><td><10D</td><td><10D</td><td><lod <lod< td=""></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod 				<lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td></td><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod <lod< td=""><td><10D</td><td><10D</td><td><lod <lod< td=""></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td></td><td></td><td></td><td></td><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod <lod< td=""><td><10D</td><td><10D</td><td><lod <lod< td=""></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod 					<lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod <lod< td=""><td><10D</td><td><10D</td><td><lod <lod< td=""></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod <lod< td=""><td><10D</td><td><10D</td><td><lod <lod< td=""></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod <lod< td=""><td><10D</td><td><10D</td><td><lod <lod< td=""></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod 				<lod< td=""><td><lod <lod< td=""><td><10D</td><td><10D</td><td><lod <lod< td=""></lod<></lod </td></lod<></lod </td></lod<>	<lod <lod< td=""><td><10D</td><td><10D</td><td><lod <lod< td=""></lod<></lod </td></lod<></lod 	<10D	<10D	<lod <lod< td=""></lod<></lod
Pcb-158 2,2',3,4,4',5' - Hexachlorobiphenyl	ug/l								1							<100	<lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod <lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </lod </td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod <lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </lod </td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod <lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </lod </td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>				<lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod <lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </lod </td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td></td><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod <lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </lod </td></lod<></td></lod<></td></lod<></td></lod<>					<lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod <lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </lod </td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod <lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </lod </td></lod<></td></lod<>	<lod< td=""><td></td><td></td><td></td><td><lod <lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </lod </td></lod<>				<lod <lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </lod 	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Pcb-180 2,2',3,4,4',5,5' - Heptachlorobiphen	ug/l															<lod< td=""><td><lod< td=""><td><lod <lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></td></lod<>	<lod< td=""><td><lod <lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></td></lod<></lod </td></lod<>	<lod <lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></td></lod<></lod 	<lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></lod </td></lod<>				<lod <lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></lod 	<lod< td=""><td></td><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<>					<lod <lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></lod<></lod 	<lod< td=""><td><lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<>	<lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<>				<lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod 	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Pcb-28 2,4,4' - Trichlororbiphenyl	ug/l ug/l ug/l					1			1							<lod <lod< td=""><td><lod <lod="" <lod<="" td=""><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td>\vdash</td><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<></lod </td></lod></td></lod<></lod 	<lod <lod="" <lod<="" td=""><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td>\vdash</td><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<></lod </td></lod>	<lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td>\vdash</td><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td></td><td></td><td></td><td><lod< td=""><td><lod< td=""><td>\vdash</td><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></td></lod<></td></lod<></lod 				<lod< td=""><td><lod< td=""><td>\vdash</td><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></td></lod<>	<lod< td=""><td>\vdash</td><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<>	\vdash				<lod <lod< td=""><td><lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod 	<lod< td=""><td><lod <lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></lod </td></lod<>	<lod <lod< td=""><td></td><td></td><td></td><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></lod 				<lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod 	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Pcb-52 2,2',5,5' - Tetrachlorobiphenyl	ug/I					-		-	-	-						-2.50	-200	-200	-230				-200	-200					-200	-200	-200				-200	-200	-200	-200	-200

September 1985	Monitoring Round Location	Units	Screening C	DWS	BH506	BH506	BH506	BH506	BH506	BH506	BH503A	BH503A	BH503A	BH503A	BH503A	BH503A	BH411	BH411	BH411	BH411	BH411	BH411	BH408	BH408	BH408	BH408	BH408	BH404	BH404	BH404	BH404	BH404	BH401	BH401	BH401	BH325C	BH325C	BH325C	BH325C	BH325C
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Monitoring Round		Screenin	g Criteria	BH324	BH324	BH324	BH324	BH324	BH324	BH320	BH320	BH320	BH320	BH315	BH315	BH313	BH313	BH312	BH312
Location Type				DR324	DE1324		BH BH	DR324	DE324	DH320	BH320	H	DH320		H	B B			H
				140 / 070	SMF		SMF	140 /070	SMF	SMF	70.1	7111	SMF	SN		SN		SN	
Response Zone (RZ) Details				MG / RTD	SIVIF	MG / RTD	SIME	MG / RTD	SMF	SMF	TILL	TILL	SMF	30	vir	30	vir	30	nr
	Units			Castleton	Castleton	Castleton	Castleton	Castleton	Castleton	Castleton	Castleton	Castleton	Castleton	Castleton	Castleton	Castleton	Castleton	Castleton	Castleton
Drainage Area	Oilles	EQS	DWS	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1
Installation Details				Shallow 1.10	Deep 3.10	Shallow 1.24	Deep 2.46	Shallow 1.28	Deep 2.49	Deep 0.82	Shallow 0.00	Shallow 0.87	Deep 2.53	Deep 7.98	7.72	1-1	11.75	15 3.88	- 11 8.76
Depth																			
Date Sampled				26/02/2015	27/02/2015	05/03/2015	05/03/2015	12/03/2015	12/03/2015	27/02/2015	06/03/2015	06/03/2015	13/03/2015	05/03/2015	12/03/2015	25/02/2015	11/03/2015	25/02/2015	11/03/2015
Metals																			
Arsenic Dissolved Beryllium Dissolved	ug/l ug/l	50	10	<lod< td=""><td><lod< td=""><td>1.7</td><td>1.6</td><td>1.5</td><td>1.2</td><td><lod< td=""><td>1.5</td><td>1.3</td><td>4.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.1</td><td>3.4</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>1.7</td><td>1.6</td><td>1.5</td><td>1.2</td><td><lod< td=""><td>1.5</td><td>1.3</td><td>4.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.1</td><td>3.4</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	1.7	1.6	1.5	1.2	<lod< td=""><td>1.5</td><td>1.3</td><td>4.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.1</td><td>3.4</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	1.5	1.3	4.1	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.1</td><td>3.4</td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>1.1</td><td>3.4</td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>1.1</td><td>3.4</td></lod<></td></lod<>	<lod< td=""><td>1.1</td><td>3.4</td></lod<>	1.1	3.4
Boron Dissolved	ug/I	2000	1000	92	200	94	40	510	530	2300	650	350	1100	41	610	53	410	120	400
Calcium Dissolved	ug/l																		
Chromium Dissolved	ug/l		50	<lod< td=""><td><lod< td=""><td><lod< td=""><td>5.8</td><td>4.2</td><td>2.4</td><td><lod< td=""><td>4.9</td><td><lod< td=""><td>7.7</td><td>3.1</td><td>20</td><td><lod< td=""><td>3.9</td><td><lod< td=""><td>19</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>5.8</td><td>4.2</td><td>2.4</td><td><lod< td=""><td>4.9</td><td><lod< td=""><td>7.7</td><td>3.1</td><td>20</td><td><lod< td=""><td>3.9</td><td><lod< td=""><td>19</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>5.8</td><td>4.2</td><td>2.4</td><td><lod< td=""><td>4.9</td><td><lod< td=""><td>7.7</td><td>3.1</td><td>20</td><td><lod< td=""><td>3.9</td><td><lod< td=""><td>19</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	5.8	4.2	2.4	<lod< td=""><td>4.9</td><td><lod< td=""><td>7.7</td><td>3.1</td><td>20</td><td><lod< td=""><td>3.9</td><td><lod< td=""><td>19</td></lod<></td></lod<></td></lod<></td></lod<>	4.9	<lod< td=""><td>7.7</td><td>3.1</td><td>20</td><td><lod< td=""><td>3.9</td><td><lod< td=""><td>19</td></lod<></td></lod<></td></lod<>	7.7	3.1	20	<lod< td=""><td>3.9</td><td><lod< td=""><td>19</td></lod<></td></lod<>	3.9	<lod< td=""><td>19</td></lod<>	19
Copper Dissolved Iron Dissolved	ug/l ug/l	10 1000	2000	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>11</td><td>9.7</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.4</td><td>2.1</td><td>8.8</td><td>5.3</td><td>13</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>11</td><td>9.7</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.4</td><td>2.1</td><td>8.8</td><td>5.3</td><td>13</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>11</td><td>9.7</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.4</td><td>2.1</td><td>8.8</td><td>5.3</td><td>13</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>11</td><td>9.7</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.4</td><td>2.1</td><td>8.8</td><td>5.3</td><td>13</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	11	9.7	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.4</td><td>2.1</td><td>8.8</td><td>5.3</td><td>13</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.4</td><td>2.1</td><td>8.8</td><td>5.3</td><td>13</td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>1.4</td><td>2.1</td><td>8.8</td><td>5.3</td><td>13</td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>1.4</td><td>2.1</td><td>8.8</td><td>5.3</td><td>13</td></lod<></td></lod<>	<lod< td=""><td>1.4</td><td>2.1</td><td>8.8</td><td>5.3</td><td>13</td></lod<>	1.4	2.1	8.8	5.3	13
Lead Dissolved	ug/l	1.2	10	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.2</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><l0d< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></l0d<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>1.2</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><l0d< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></l0d<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>1.2</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><l0d< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></l0d<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>1.2</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><l0d< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></l0d<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	1.2	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><l0d< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></l0d<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><l0d< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></l0d<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><l0d< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></l0d<></td></lod<></td></lod<>	<lod< td=""><td><l0d< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></l0d<></td></lod<>	<l0d< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></l0d<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Magnesium Dissolved	ug/l																		
Manganese Dissolved	ug/l	30	50		400	2.7	4100	2.4	4100	0.4	2	2.0	4.2	400	1.2	400	2	400	1.5
Nickel Dissolved Selenium Dissolved	ug/l ug/l	4	20 10	1 3.2	<lod 1.7</lod 	3.7 1.3	<lod 1.1</lod 	3.4 1.4	<lod 1</lod 	8.4 2.7	3.4	2.8 1.2	1.2	<lod 1.6</lod 	1.2 3.6	<lod 4.2</lod 	<lod< td=""><td><lod 3.2</lod </td><td>1.5 4.4</td></lod<>	<lod 3.2</lod 	1.5 4.4
Cadmium Dissolved	ug/I	0.15	5	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Vanadium Dissolved	ug/I					-				4.55			4.55				4.55		
Zinc Dissolved Mercury Dissolved	ug/l ug/l	75 0.07	1	<lod <lod< td=""><td><lod <lod< td=""><td>49 <lod< td=""><td><lod< td=""><td>2.9 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>1.3 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>10 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>1.1 <lod< td=""></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td>49 <lod< td=""><td><lod< td=""><td>2.9 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>1.3 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>10 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>1.1 <lod< td=""></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></td></lod<></td></lod<></lod 	49 <lod< td=""><td><lod< td=""><td>2.9 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>1.3 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>10 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>1.1 <lod< td=""></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></td></lod<>	<lod< td=""><td>2.9 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>1.3 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>10 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>1.1 <lod< td=""></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></td></lod<>	2.9 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>1.3 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>10 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>1.1 <lod< td=""></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod </td></lod<>	<lod <lod< td=""><td><lod <lod< td=""><td>1.3 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>10 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>1.1 <lod< td=""></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td>1.3 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>10 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>1.1 <lod< td=""></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod 	1.3 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>10 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>1.1 <lod< td=""></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod </td></lod<>	<lod <lod< td=""><td><lod <lod< td=""><td>10 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>1.1 <lod< td=""></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td>10 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>1.1 <lod< td=""></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></lod 	10 <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>1.1 <lod< td=""></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<>	<lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>1.1 <lod< td=""></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td>1.1 <lod< td=""></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td><lod <lod< td=""><td>1.1 <lod< td=""></lod<></td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td>1.1 <lod< td=""></lod<></td></lod<></lod 	1.1 <lod< td=""></lod<>
Cadmium Total	ug/I ug/I	0.07	5	\LUU	\LUU	\LUU	\LUU	\LUU	\LUU	\LUU	\LUU	\LUU	\LUU	\LUU	\LUU	\LUU	\LUU	\LUU	\LUU
Zinc Total	ug/l	75																	
Mercury Total	ug/I	0.07	1																
Non-Metal Inorganics	mg/l																		
Hardness Total Total Alkalinity as CaCO3	mg/l mg/l																		
BOD	mg/l	5																	
COD	mg/l																		
Potassium Dissolved Sodium Dissolved	mg/l mg/l		200																
Nitrate as NO3	mg/l		50																
Total Diss Sulphur	mg/l																		
Sulphate (soluble)	mg/l	400	250																
Chloride Sulphide	mg/l mg/l	250	250			19	15	33	18										
Ammoniacal Nitrogen as N	mg/l	0.6				0.026	0.018	0.3	0.21										
Unionised ammonia	mg/l																		
Total Ammonium as NH4	mg/l		0.5																
Phenols Monohydric Thiocyanate	mg/l																		
Total Cyanide	mg/l mg/l	0.001	0.05																
Free Cyanide	mg/l			<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><l0d< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></l0d<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><l0d< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></l0d<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><l0d< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></l0d<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><l0d< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></l0d<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><l0d< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></l0d<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><l0d< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></l0d<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><l0d< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></l0d<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><l0d< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></l0d<></td></lod<></td></lod<>	<lod< td=""><td><l0d< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></l0d<></td></lod<>	<l0d< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></l0d<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Complex Cuanida																			
Complex Cyanide	mg/l																		
Carbon Dioxide Dissolved	ug/l	6-9	6.5-10	8	8.2	8.1	8.5	8.2	8.5	7.7	8.4	8.1	7.9	8	8.4	8.2	8.3	8.1	8.4
PH Value Organics	ug/I pH units	6-9	6.5-10	8	8.2	8.1	8.5	8.2	8.5	7.7	8.4	8.1	7.9	8	8.4	8.2	8.3	8.1	8.4
Carbon Dioxide Dissolved pH Value Organics GRO (C4-C12)	ug/I pH units ug/I	6-9	6.5-10	8	8.2	8.1	8.5	8.2	8.5	7.7	8.4	8.1	7.9	8	8.4	8.2	8.3	8.1	8.4
Carbon Dioxide Dissolved pH Value Organics GRO (C4-C12) MTBE	ug/I pH units ug/I ug/I	6-9	6.5-10	8 <lod< td=""><td>8.2 <lod< td=""><td>8.1 <lod< td=""><td>8.5</td><td>8.2 <lod< td=""><td>8.5</td><td>7.7</td><td>8.4 <lod< td=""><td>8.1 <lod< td=""><td>7.9</td><td>8 <lod< td=""><td>8.4 <lod< td=""><td>8.2 <lod< td=""><td>8.3 <lod< td=""><td>8.1 <lod< td=""><td>8.4 <lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	8.2 <lod< td=""><td>8.1 <lod< td=""><td>8.5</td><td>8.2 <lod< td=""><td>8.5</td><td>7.7</td><td>8.4 <lod< td=""><td>8.1 <lod< td=""><td>7.9</td><td>8 <lod< td=""><td>8.4 <lod< td=""><td>8.2 <lod< td=""><td>8.3 <lod< td=""><td>8.1 <lod< td=""><td>8.4 <lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	8.1 <lod< td=""><td>8.5</td><td>8.2 <lod< td=""><td>8.5</td><td>7.7</td><td>8.4 <lod< td=""><td>8.1 <lod< td=""><td>7.9</td><td>8 <lod< td=""><td>8.4 <lod< td=""><td>8.2 <lod< td=""><td>8.3 <lod< td=""><td>8.1 <lod< td=""><td>8.4 <lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	8.5	8.2 <lod< td=""><td>8.5</td><td>7.7</td><td>8.4 <lod< td=""><td>8.1 <lod< td=""><td>7.9</td><td>8 <lod< td=""><td>8.4 <lod< td=""><td>8.2 <lod< td=""><td>8.3 <lod< td=""><td>8.1 <lod< td=""><td>8.4 <lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	8.5	7.7	8.4 <lod< td=""><td>8.1 <lod< td=""><td>7.9</td><td>8 <lod< td=""><td>8.4 <lod< td=""><td>8.2 <lod< td=""><td>8.3 <lod< td=""><td>8.1 <lod< td=""><td>8.4 <lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	8.1 <lod< td=""><td>7.9</td><td>8 <lod< td=""><td>8.4 <lod< td=""><td>8.2 <lod< td=""><td>8.3 <lod< td=""><td>8.1 <lod< td=""><td>8.4 <lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	7.9	8 <lod< td=""><td>8.4 <lod< td=""><td>8.2 <lod< td=""><td>8.3 <lod< td=""><td>8.1 <lod< td=""><td>8.4 <lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	8.4 <lod< td=""><td>8.2 <lod< td=""><td>8.3 <lod< td=""><td>8.1 <lod< td=""><td>8.4 <lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	8.2 <lod< td=""><td>8.3 <lod< td=""><td>8.1 <lod< td=""><td>8.4 <lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	8.3 <lod< td=""><td>8.1 <lod< td=""><td>8.4 <lod< td=""></lod<></td></lod<></td></lod<>	8.1 <lod< td=""><td>8.4 <lod< td=""></lod<></td></lod<>	8.4 <lod< td=""></lod<>
Carbon Dioxide Dissolved pH Value Organics GRO (C4-C12)	ug/I pH units ug/I																		<lod <lod< td=""></lod<></lod
Carbon Dioxide Dissolved pH Value Organics GRO (C4-C12) MTBE Benzene Toluene Ethyl benzene	ug/l pH units ug/l ug/l ug/l ug/l ug/l ug/l	10 50 20		<lod <lod <lod< td=""><td><lod< td=""><td><lod <lod <lod< td=""><td><lod <lod <lod< td=""><td><lod <lod <lod< td=""><td><lod <lod <lod< td=""><td><lod <lod< td=""><td><lod <lod <lod< td=""><td><lod <lod<="" td=""><td><to0 <to0< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></to0<></to0 </td></lod></td></lod<></lod </lod </td></lod<></lod </td></lod<></lod </lod </td></lod<></lod </lod </td></lod<></lod </lod </td></lod<></lod </lod </td></lod<></td></lod<></lod </lod 	<lod< td=""><td><lod <lod <lod< td=""><td><lod <lod <lod< td=""><td><lod <lod <lod< td=""><td><lod <lod <lod< td=""><td><lod <lod< td=""><td><lod <lod <lod< td=""><td><lod <lod<="" td=""><td><to0 <to0< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></to0<></to0 </td></lod></td></lod<></lod </lod </td></lod<></lod </td></lod<></lod </lod </td></lod<></lod </lod </td></lod<></lod </lod </td></lod<></lod </lod </td></lod<>	<lod <lod <lod< td=""><td><lod <lod <lod< td=""><td><lod <lod <lod< td=""><td><lod <lod <lod< td=""><td><lod <lod< td=""><td><lod <lod <lod< td=""><td><lod <lod<="" td=""><td><to0 <to0< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></to0<></to0 </td></lod></td></lod<></lod </lod </td></lod<></lod </td></lod<></lod </lod </td></lod<></lod </lod </td></lod<></lod </lod </td></lod<></lod </lod 	<lod <lod <lod< td=""><td><lod <lod <lod< td=""><td><lod <lod <lod< td=""><td><lod <lod< td=""><td><lod <lod <lod< td=""><td><lod <lod<="" td=""><td><to0 <to0< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></to0<></to0 </td></lod></td></lod<></lod </lod </td></lod<></lod </td></lod<></lod </lod </td></lod<></lod </lod </td></lod<></lod </lod 	<lod <lod <lod< td=""><td><lod <lod <lod< td=""><td><lod <lod< td=""><td><lod <lod <lod< td=""><td><lod <lod<="" td=""><td><to0 <to0< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></to0<></to0 </td></lod></td></lod<></lod </lod </td></lod<></lod </td></lod<></lod </lod </td></lod<></lod </lod 	<lod <lod <lod< td=""><td><lod <lod< td=""><td><lod <lod <lod< td=""><td><lod <lod<="" td=""><td><to0 <to0< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></to0<></to0 </td></lod></td></lod<></lod </lod </td></lod<></lod </td></lod<></lod </lod 	<lod <lod< td=""><td><lod <lod <lod< td=""><td><lod <lod<="" td=""><td><to0 <to0< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></to0<></to0 </td></lod></td></lod<></lod </lod </td></lod<></lod 	<lod <lod <lod< td=""><td><lod <lod<="" td=""><td><to0 <to0< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></to0<></to0 </td></lod></td></lod<></lod </lod 	<lod <lod<="" td=""><td><to0 <to0< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></to0<></to0 </td></lod>	<to0 <to0< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></to0<></to0 	<lod< td=""><td><lod< td=""><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<>	<lod< td=""><td><lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""></lod<></lod </td></lod<></td></lod<></td></lod<></lod </td></lod<>	<lod <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""></lod<></lod </td></lod<></td></lod<></td></lod<></lod 	<lod< td=""><td><lod< td=""><td><lod <lod< td=""></lod<></lod </td></lod<></td></lod<>	<lod< td=""><td><lod <lod< td=""></lod<></lod </td></lod<>	<lod <lod< td=""></lod<></lod
Carbon Dioxide Dissolved pH Value Organics GRO (C4-C12) MTBE Benzene Toluene Ethyl benzene m & p Xylene	ug/l pH units ug/l ug/l ug/l ug/l ug/l ug/l ug/l	10 50 20 30		<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod="" <lod<="" td=""><td><lod <lod <lod< td=""><td><lod <lod <lod <lod< td=""><td><lod <lod="" <lod<="" td=""><td><lod <lod="" <lod<="" td=""><td><lod< td=""><td><lod <lod="" <lod<="" td=""><td><lod <lod="" <lod<="" td=""><td><lod <lod="" <lod<="" td=""><td><lod <lod="" <lod<="" td=""><td><lod <lod <lod< td=""></lod<></lod </lod </td></lod></td></lod></td></lod></td></lod></td></lod<></td></lod></td></lod></td></lod<></lod </lod </lod </td></lod<></lod </lod </td></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod="" <lod<="" td=""><td><lod <lod <lod< td=""><td><lod <lod <lod <lod< td=""><td><lod <lod="" <lod<="" td=""><td><lod <lod="" <lod<="" 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Carbon Dioxide Dissolved pth Value Organics GRO (C4-C12) MTBE Benzene Toluene Ethyl benzene m & p Xylene Oxylene Aliphatics C5-C6 Aliphatics C5-C6 Aliphatics C5-C6 Aliphatics C5-C1 Aliphatics C5-C1 Aliphatics C5-C1 Aliphatics C5-C1 Aliphatics C5-C1 Aliphatics C5-C1 Aliphatics C5-C1 Aliphatics C5-C1 Aliphatics C5-C1 Aliphatics C5-C1 Aliphatics C5-C1 Aliphatics C5-C1 Aliphatics C5-C1 Aliphatics C5-C1 Aliphatics C5-C1 Aromatics C5-C1 Aromatics C5-C2 Aromatics C5-C2 Aromatics C5-C3 Aromatics C5-C3 Aromatics C5-C3 Aromatics C5-C3 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 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Carbon Dioxide Dissolved plt Value Organics GRO (C4-C12) MTSE Benzene Toluene Etityl benzene nä p. Sykiene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene Nykene	ug/l pH units ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	10 50 20 30		4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00	4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00	4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00	4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00	(100 (100 (100 (100 (100 (100 (100 (100	400 400 400 400 400 400 400 400 400 400	400 400 400 400 400 400 400 400 400 400	400 400 400 400 400 400 400 400 400 400	400 400 400 400 400 400 400 400 400 400	400 400 400 400 400 400 400 400 400 400	4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00	400 400 400 400 400 400 400 400 400 400	400 400 400 400 400 400 400 400 400 400	4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00	(00) (00) (00) (00) (00) (00) (00) (00)	4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00
Carbon Dioxide Dissolved pH Value Organics GRO (C4-C12) MTBE Benzene Toluene Ethyl benzene in & p Xylene o Xylene o Xylene Aliphatics >C5-C6 Aliphatics >C5-C6 Aliphatics >C1-C1 Aliphatics >C1-C1 Aliphatics >C1-C1 Aliphatics >C1-C1 Aliphatics >C1-C1 Aliphatics >C1-C3 Aliphatics >C1-C3 Aliphatics >C1-C3 Aliphatics >C1-C3 Aliphatics >C1-C3 Aliphatics >C1-C3 Aliphatics >C1-C3 Aliphatics >C1-C3 Aliphatics >C1-C3 Aliphatics >C1-C3 Aromatics >C1-C3 Aromatics >C1-C3 Aromatics >C1-C3 Aromatics >C1-C1 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromatics >C1-C1-C3 Aromati	ug/l pH units ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	10 50 20 30		001- 001- 001- 001- 001- 001- 001- 001-	4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00	(01) (02) (03) (03) (03) (03) (03) (03) (03) (03	0012 0012 0013 0013 0013 0013 0013 0013	(00) (00) (00) (00) (00) (00) (00) (00)	4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00	400 400 400 400 400 400 400 400 400 400	400 400 400 400 400 400 400 400	400 400 400 400 400 400 400 400 400 400	400 400 400 400 400 400 400 400 400 400	4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 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4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00	001- 001- 001- 001- 001- 001- 001- 001-	4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00
Carbon Dioxide Dissolved plt Value Organics GRO (C4-C12) MTSE Benzene Toluene Etityl benzene in 8.p Sylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xylene O Xy	ug/l pH units ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	10 50 20 30		001- 001- 001- 001- 001- 001- 001- 001-	4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00	(01) (02) (03) (03) (03) (03) (03) (03) (03) (03	0012 0012 0013 0013 0013 0013 0013 0013	(00) (00) (00) (00) (00) (00) (00) (00)	4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00	400 400 400 400 400 400 400 400 400 400	400 400 400 400 400 400 400 400	400 400 400 400 400 400 400 400 400 400	400 400 400 400 400 400 400 400 400 400	4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 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Carbon Dioxide Dissolved pth Value Organics GRO (C4-C12) MTBE Benzene Toluene Ethyl benzene m & p Xylene o Xylene Oxylene TPH Alliphatics C5-C6 Alliphatics C5-C6 Alliphatics C5-C1 Alliphatics C5-C1 Alliphatics C5-C1 Alliphatics C5-C1 Alliphatics C5-C1 Alliphatics C5-C1 Alliphatics C5-C3 Alliphatics C5-C3 Alliphatics C5-C3 Alliphatics C5-C3 Alliphatics C5-C3 Alliphatics C5-C3 Alliphatics C5-C3 Alliphatics C5-C3 Alliphatics C5-C3 Alliphatics C5-C3 Aromatics C5-C3 Aromatics C5-C3 Aromatics C5-C3 Aromatics C5-C3 Aromatics C5-C3 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Aromatics C5-C1 Total Aromatics C5-C1 Total Aromatics C5-C1 Total Aromatics C5-C1 Total Aromatics C5-C1 Total Aromatics C7-C1 Total Aromatics C7-C1 Total Aromatics C5-C1 Total Aromatics C5-C1 Total Aromatics C7-C1 Total Aromatics C7-C1 Total Aromatics C7-C1 Total Aromatics C7-C1 Total Aromatics C7-C1 Total Aromatics C7-C1 Total Aromatics C7-C1 Total 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Total C7-C1 Total C7-C1 Total C7-C1 Total C7-C1 Total	ug/l pH units ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	10 50 20 30		00.15 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 00.25 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Carbon Dioxide Dissolved pth Value Organics GRO (C4-C12) MTBE Benzene Toluene Ethyl benzene m & p Xylene o Xylene Oxylene TPH Alliphatics 2:G-C8 Alliphatics 2:G-C8 Alliphatics 2:G-C8 Alliphatics 2:G-C1 Alliphatics 2:G-C1 Alliphatics 2:G-C1 Alliphatics 2:G-C1 Alliphatics 2:G-C1 Alliphatics 2:G-C1 Alliphatics 2:G-C1 Alliphatics 2:G-C1 Alliphatics 2:G-C1 Alliphatics 2:G-C1 Alliphatics 2:G-C1 Alliphatics 2:G-C1 Alliphatics 2:G-C1 Aromatics 2:G-C3 Aromatics 2:G-C3 Aromatics 2:G-C3 Aromatics 2:G-C3 Aromatics 2:G-C3 Aromatics 2:G-C3 Aromatics 2:G-C3 Aromatics 2:G-C3 Aromatics 2:G-C3 Aromatics 2:G-C3 Aromatics 2:G-C3 Aromatics 2:G-C3 Total Alliphatics 2:G-C3 Total Aromatics 2:G-C3 Total Aromatics C5 Total Aromatics C5 Total Aromatics C5 Total Aromatics C7 Total Aromatics C7 Total Aromatics C7 Total Aromatics C7 Total Aromatics C7 Total Aromatics C7 Total Aromatics C7 Total Aromatics C7 Total Aromatics C7 Total Aromatics C7 Total Aromatics C7 Total Aromatics C7 Total Aromatics C7 Total 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Carbon Dioxide Dissolved plt Value Organics GRO (C4-C12) MTSE Benzene Toluene Ethyl benzene Toluene Ethyl benzene Toluene Ethyl benzene Toluene Oxylene THA Aliphatics 2-C6-C12 Aliphatics 2-C6-C12 Aliphatics 2-C6-C12 Aliphatics 2-C12-C13 Aliphatics 2-C12-C13 Aliphatics 2-C12-C13 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 Aliphatics 2-C13-C14 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Naphthaline Ug/l 2 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.0	.0D <lod .0D <lod .0D <lod< td=""><td><lod< td=""><td><lod <lod< td=""></lod<></lod </td></lod<></td></lod<></lod </lod 	<lod< td=""><td><lod <lod< td=""></lod<></lod </td></lod<>	<lod <lod< td=""></lod<></lod
Pyrene	.OD <lod< td=""><td><lod <lod< td=""><td><lod< td=""></lod<></td></lod<></lod </td></lod<>	<lod <lod< td=""><td><lod< td=""></lod<></td></lod<></lod 	<lod< td=""></lod<>
Phibalates	100	<lod <lod< td=""><td><lod <lod< td=""></lod<></lod </td></lod<></lod 	<lod <lod< td=""></lod<></lod
Butyleary phthalate ug/l 20		,	
Din-Oty pithalate ug/l 20			
Dimethy phthalate ug/l 800			
Full suite			
1,1,1-17-in/brorethane ug/l 100			=
1.1.2-Trichforcethane ug/l 400			
1,1-Dichloroethene ug/l			
1,2,3-Trichloropropane ug/l			
12.4-Firichiorobenzene ug/l 0.4 12.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprobenzene ug/l 1.4-Firichiprob			
1.2-Dibromo-3-Chloropropane ug/l			
1,2-Dichlorobenzene ug/l 20			
1,2-Dichloropropane ug/l 1,3,5-Trimethylbenzene ug/l			
1,3-Dichloropropane ug/l 1,4-Dichlorobenzene ug/l 20			
2-Chlorotoluene ug/l 4-Chlorotoluene ug/l			
	.OD <lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Bromobenzene ug/l Bromodolforomethane ug/l 100 100			
Bromodchromethane ug/l			
Bromomethane ug/l			
Chloroethane			
Chloroform ug/l 2.5 100 Chloromethane ug/l			
Cis-1,3-0ichloropethene ug/l			
Dibromochloromethane ug/l 100			
Dichlorodifluoromethane ug/l Dichloromethane ug/l 20			
Ethylbenzene	.OD <lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
	.OD <lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Methyl tetr-buryl ether (MTBS) ug/l			
	.OD <lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Sec Butylbenzene ug/l Styrene ug/l 50			
Tert-Buy/benzene ug/l			
Toluene ug/l 50 <100 <100 <100 <100 <100 <100 <100 <	.OD <lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
trans-1,3-Dichloropropene ug/l			
Tritoromethane			=
Intentoriousomentanie ug/			
Unit Semi-Volatiles Up/1 20			=
1,2-0-chlorobenzene ug/l 20			
1,0-0 transcentence			
Z,4-Unitrotouene ug/l 2,5-Dinitrotouene ug/l 2-Methyfniaphthalene ug/l			
2-metrynaprinaene ugr			
4-Chlorophenylether ug/l			
4-Nitroanline Ug/l			
Big(2-chloroethyr)methane ug/l			
Dibencoluran Ug/			
Hexachlorobutadiene ug/l 0.6 <td< td=""><td></td><td></td><td></td></td<>			
Hexachloroethane Ug/		1 1	

) DATA SU	MMARY								GROUNDWATER (ALL DATA) WATER	QUALITI 3C	KEENING AS		41 - PC -			
		No.	Analyses	Above LOD	Concen	tration	Location with Maximum		Min	_			Analyses	Above EQS		Analyses At	bove DWS
Parameter	Units	Analyses	No.	%'age	Range	Avergae	Concentration	Max	Min	Parameter	Units	EQS	No.	%'age	DWS	No.	%'ag
							OUEDA O CLUII			Metals				1 4 700		27	22.4
rsenic Dissolved	ug/l	117 11	91	77.8%	1 - 69 None > LOD	8.991 None > LOD	BH503A @ Shallow	69 None > LOD	None > LOD	Arsenic Dissolved Bervllium Dissolved	ug/l	50	2	1.7%	10	21	23.1
Beryllium Dissolved Boron Dissolved	ug/l ug/l	113	104	None > LOD 92.0%	40 - 4500	903.876	BH533 @ Deep	4500	None > LOD 40	Boron Dissolved	ug/l ug/l	2000	10	8.8%	1000	29	25.7
alcium Dissolved	ug/I	113	104	30.8%	65000 - 77000	22076.923	SBHD06 @ 7.5 - 15	77000	65000	Calcium Dissolved		2000	10	0.076	1000	29	25.7
Chromium Dissolved		117	87	74.4%	1.1 - 320	24.379	8H503A @ Shallow	320	1.1	Chromium Dissolved	ug/l			-	50	18	15.49
Copper Dissolved	ug/l ug/l	117	75	64.1%	1.1 - 320	63.262	@ Shallow	2000	1.1	Copper Dissolved	ug/l ug/l	10	32	27.4%	2000	0	None>
ron Dissolved	ug/I	17	75	52.9%	9 - 7700	953.471	SBHD06 @ 7.5 - 15	7700	9	Iron Dissolved	ug/I	1000	32	11.8%	2000	· ·	29.4
ead Dissolved	ug/I	117	12	10.3%	1-10	0.382	3811000 @ 7.5 - 13	10	1	Lead Dissolved	ug/I	1.2	5	4.3%	10	0	None>0
Magnesium Dissolved		16	4	25.0%	42000 - 94000	16687.500	SBHD06 @ 7.5 - 15	94000	42000	Magnesium Dissolved	ug/l	1.2	,	4.370	10		NOTIE
Manganese Dissolved	ug/l ug/l	16	10	62.5%	30 - 1600	265,000	SBHD06 @ 7.5 - 15	1600	30	Manganese Dissolved	ug/I	30	5	31.3%	50	2	12.5
Nickel Dissolved	ug/I	117	93	79.5%	1 - 32	4.483	BH401 @ 7.5-13	32	1	Nickel Dissolved	ug/l	4	39	33.3%	20	1	0.99
Selenium Dissolved	ug/I	117	98	83.8%	1 - 230	10.821	BH503A @ Shallow	230	1	Selenium Dissolved	ug/I	-	33	33.370	10	24	20.5
Cadmium Dissolved	ug/l	113	13	11.5%	0.086 - 5	0.157	@ Shallow	5	0.086	Cadmium Dissolved	ug/I	0.15	6	5.3%	5	0	None>
Vanadium Dissolved	ug/l	113	2	18.2%	3-5	0.727	SBHD06 @ 7.5 - 15	5	3	Vanadium Dissolved	ug/I	0.13	-	3.374	-		Hones
Zinc Dissolved		110	77	70.0%	1 - 75	7.305	Location @ Installation Details	75	1	Zinc Dissolved		75	0	None>EQS			_
Mercury Dissolved	ug/l ug/l	113	23	20.4%	0.07 - 2.4	0.200	BH536A @ Deep	2.4	0.07	Mercury Dissolved	ug/l ug/l	0.07	20	17.7%	1	8	7.19
Cadmium Total	ug/I	16	23	56.3%	0.15 - 18	2.228	SBHD06 @ 7.5 - 15	18	0.15	Cadmium Total	ug/I	0.07	5	31.3%	5	1	6.35
inc Total		13	7	53.8%	67 - 1800	184.769	SBHD06 @ 7.5 - 15	1800	67	Zinc Total		75	2	15.4%	-		0.3
	ug/l	16	8	50.0%	0.01 - 1	0.204	3811000 @ 7.5 - 15 @	1	0.01	Mercury Total	ug/l	0.07	3	18.8%		0	None>
Mercury Total	ug/l	10		30.0%	0.01 - 1	0.204	9	1	0.01		ug/l	0.07	,	10.070	1		NOTIE
Hardness Total	/	13	4	30.8%	340 - 580	140.000	SBHD06 @ 7.5 - 15	580	340	Non-Metal Inorganics	me/l						
	mg/l	13	4	30.8%	340 - 580	309.231	SBHD06 @ 7.5 - 15 SBHD06 @ 7.5 - 15	2000	340	Hardness Total Total Alkalinity as CaCO3				-	\vdash		+
Total Alkalinity as CaCO3	mg/l		-		340 - 2000 2 - 78		SBHD06 @ 7.5 - 15 SBHD06 @ 7.5 - 15	2000	340		mg/l	5	2	15.4%	\vdash		+
	mg/l	13	6	46.2% 30.8%	2 - 78 25 - 1000	11.615	001100000000000000000000000000000000000			BOD COD	mg/l	5	2	13.4%	\vdash		+
COD	mg/l	13 13	4	30.8%	7.8 - 41	90.385 7.262	SBHD06 @ 7.5 - 15	1000 41	25 7.8		mg/l			-	\vdash		+
otassium Dissolved	mg/l	13 16	7	30.8% 43.8%	7.8 - 41 15 - 1200	7.262 127.188	SBHD06 @ 7.5 - 15	41 1200	7.8 15	Potassium Dissolved	mg/l			+	200		6.3
odium Dissolved	mg/l						SBHD06 @ 7.5 - 15			Sodium Dissolved	mg/l			1		1	None>
Nitrate as NO3	mg/l	16	4	25.0%	0.3 - 50	9.394	@	50	0.3	Nitrate as NO3	mg/l			1	50	0	None
otal Diss Sulphur	mg/l	9	0	None > LOD	None > LOD	None > LOD	Laurian O lauri "	None > LOD	None > LOD	Total Diss Sulphur	mg/l	400	0	Non-For	250	3	18.8
sulphate (soluble)	mg/l	16	10	62.5%	27 - 400	137.688 344.787	Location @ Installation Details	400	27	Sulphate (soluble)	mg/l			None>EQS			
hloride	mg/l	61	55	90.2%	13 - 3000		DWS @	3000	13	Chloride	mg/l	250	14	23.0%	250	14	23.0
Sulphide	mg/l	13	0	None > LOD 87.9%	None > LOD	None > LOD	BH506 @ Shallow	None > LOD	None > LOD	Sulphide	mg/l		18	31.0%	\vdash		-
Ammoniacal Nitrogen as N	mg/l	58 9	51 0		0.017 - 19	2.772	RH209 @ 2USIIOM	19	0.017	Ammoniacal Nitrogen as N	mg/l	0.6	18	31.0%			_
Inionised ammonia	mg/l			None > LOD	None > LOD	None > LOD	5011005 0 7 5 45	None > LOD	None > LOD	Unionised ammonia	mg/l				0.5		7.6
otal Ammonium as NH4	mg/l	14	5	35.7%	0.5 - 21	1.650	SBHD06 @ 7.5 - 15	21	0.5	Total Ammonium as NH4	mg/l				0.5	1	7.1
henols Monohydric	mg/l	13	0	None > LOD	None > LOD	None > LOD		None > LOD	None > LOD	Phenols Monohydric	mg/l						_
hiocyanate	mg/l	9 16	6	None > LOD 37.5%	None > LOD 0.001 - 0.05	None > LOD 0.010	@	None > LOD 0.05	None > LOD 0.001	Thiocyanate Total Cyanide	mg/l	0.001	3	18.8%	0.05	0	None>
otal Cyanide	mg/l		0	411411	0.002 0.00	0.020	@	None > LOD	0.002	· · · · · · · · · · · · · · · · · · ·	mg/l	0.001	3	18.8%	0.05	U	None
ree Cyanide	mg/l	110 9	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD			None > LOD	Free Cyanide	mg/l						_
Complex Cyanide	mg/l			18.2%			SBHD06 @ 7.5 - 15	None > LOD	None > LOD	Complex Cyanide	mg/l						_
Carbon Dioxide Dissolved	ug/l	117	105		14 - 79	8.455	SBHD06 @ 7.5 - 15 BH537 @ Deep	79	14	Carbon Dioxide Dissolved	ug/l	6-9		6.8%	6.5-10	_	5.1
pH Value	pH units	117	105	89.7%	7.2 - 8.8	7.184	вн537 @ реер	8.8	7.2	pH Value	pH units	6-9	8	6.8%	6.5-10	ь	5.1
										Organics							
GRO (C4-C12)	ug/l	13 35	0	None > LOD	None > LOD	None > LOD		None > LOD	None > LOD	GRO (C4-C12)	ug/l						_
MTBE	ug/l			None > LOD	None > LOD	None > LOD		None > LOD	None > LOD	MTBE	ug/l		0	None>EQS			2.5
Benzene	ug/l	120	6	5.0%	1 - 10	0.275	Location @ Installation Details	10	1	Benzene	ug/l	10	-	None>EQS None>EQS	1	3	2.5
Toluene	ug/l	117	3	2.6%	50 - 50	1.282	Location @ Installation Details	50	50	Toluene	ug/l	50	0				_
Ethyl benzene	ug/l	117	3	2.6%	20 - 20	0.513	Location @ Installation Details	20	20	Ethyl benzene	ug/l	20	0	None>EQS			_
m & p Xylene	ug/l	117	3	2.6%	30 - 30	0.769	Location @ Installation Details	30	30	m & p Xylene	ug/l	30	0	None>EQS			_
Xylene	ug/l	117	3	2.6%	30 - 30	0.769	Location @ Installation Details	30	30	o Xylene	ug/l	30	U	None>EQS			_
										TPH							
	ug/l	117	0	None > LOD	None > LOD	None > LOD		None > LOD	None > LOD	Aliphatics C5-C6	ug/l						
Aliphatics >C6-C8	ug/l	117	0	None > LOD	None > LOD	None > LOD		None > LOD	None > LOD	Aliphatics C5-C6 Aliphatics >C6-C8	ug/l						
Aliphatics >C6-C8 Aliphatics >C8-C10	ug/l ug/l	117 117	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD		None > LOD None > LOD	None > LOD None > LOD	Aliphatics C5-C6 Aliphatics >C6-C8 Aliphatics >C8-C10	ug/l ug/l						
Aliphatics >C6-C8 Aliphatics >C8-C10 Aliphatics >C10-C12	ug/l ug/l ug/l	117 117 117	0	None > LOD None > LOD 0.9%	None > LOD None > LOD 4.3	None > LOD None > LOD gle Analysis > L	BH411 @ Shallow	None > LOD None > LOD 4.3	None > LOD None > LOD 4.3	Aliphatics C5-C6 Aliphatics >C6-C8 Aliphatics >C8-C10 Aliphatics >C10-C12	ug/l ug/l ug/l						
Aliphatics C5-C6 Aliphatics >C6-C8 Aliphatics >C8-C10 Aliphatics >C10-C12 Aliphatics >C12-C16 Aqueou	ug/l ug/l ug/l ug/l	117 117 117 117	0	None > LOD None > LOD 0.9% 2.6%	None > LOD None > LOD 4.3 61 - 350	None > LOD None > LOD gle Analysis > L 4.222	SBHD06 @ 7.5 - 15	None > LOD None > LOD 4.3 350	None > LOD None > LOD 4.3 61	Aliphatics C5-C6 Aliphatics > C6-C8 Aliphatics > C8-C10 Aliphatics > C10-C12 Aliphatics > C12-C16 Aqueous	ug/l ug/l ug/l ug/l						
Aliphatics >C6-C8 Aliphatics >C8-C10 Aliphatics >C10-C12 Aliphatics >C12-C16 Aqueou Aliphatics >C16-C21 Aqueou	ug/l ug/l ug/l ug/l u ug/l	117 117 117 117 117	0 0 1 3 3	None > LOD None > LOD 0.9% 2.6% 2.6%	None > LOD None > LOD 4.3 61 - 350 21 - 140	None > LOD None > LOD gle Analysis > L 4.222 1.684	SBHD06 @ 7.5 - 15 SBHD06 @ 7.5 - 15	None > LOD None > LOD 4.3 350 140	None > LOD None > LOD 4.3 61 21	Aliphatics C5-C6 Aliphatics > C6-C8 Aliphatics > C8-C10 Aliphatics > C10-C12 Aliphatics > C12-C12 Aliphatics > C12-C14 Aliphatics > C14-C14 Aliphatics > C16-C21 Aliphatics > C16-C21 Aliphatics > C16-C21 Aliphatics > C16-C21 Aliphatics > C16-C21 Aliphatics > C16-C21 Aliphatics > C16-C21 Aliphatics > C16-C21 Aliphatics > C16-C21 Aliphatics > C16-C21	ug/l ug/l ug/l ug/l ug/l						
Niphatics > C6-C8 Niphatics > C8-C10 Niphatics > C10-C12 Niphatics > C12-C16 Aqueou Niphatics > C16-C21 Aqueou Niphatics > C21-C35 Aqueou	ug/l ug/l ug/l ug/l ug/l ug/l ug/l	117 117 117 117 117 117	0 0 1 3 3	None > LOD None > LOD 0.9% 2.6% 2.6% 1.7%	None > LOD None > LOD 4.3 61 - 350 21 - 140 260 - 810	None > LOD None > LOD gle Analysis > L 4.222 1.684 9.145	SBHD06 @ 7.5 - 15 SBHD06 @ 7.5 - 15 BH411 @ Shallow	None > LOD None > LOD 4.3 350 140 810	None > LOD None > LOD 4.3 61 21 260	Aliphatics C5-C6 Aliphatics >C6-C8 Aliphatics >C8-C10 Aliphatics >C10-C12 Aliphatics >C10-C12 Aliphatics >C16-C21 Aliphatics >C16-C21 Aliphatics >C16-C21 Aliphatics >C16-C31 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >C31-C35 Aliphatics >	ug/l ug/l ug/l ug/l ug/l ug/l						
liphatics >C6-C8 liphatics >C8-C10 liphatics >C10-C12 liphatics >C12-C16 Aqueou liphatics >C16-C21 Aqueou liphatics >C21-C35 Aqueou fotal Aliphatics C5-C35 Aque	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	117 117 117 117 117 117 117	0 0 1 3 3 2	None > LOD None > LOD 0.9% 2.6% 2.6% 1.7% 7.7%	None > LOD None > LOD 4.3 61 - 350 21 - 140 260 - 810 500	None > LOD None > LOD gle Analysis > L 4.222 1.684 9.145 gle Analysis > L	SBHD06 @ 7.5 - 15 SBHD06 @ 7.5 - 15 BH411 @ Shallow SBHD06 @ 7.5 - 15	None > LOD None > LOD 4.3 350 140 810 500	None > LOD None > LOD 4.3 61 21 260 500	Aliphatics CS-CS Aliphatics > CS-C10 Aliphatics > CS-C10 Aliphatics > C10-C11 Aliphatics > C10-C12 Aliphatics > C12-C15 Aliphatics > C12-C15 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C13-C21 Aliphatics > C1	ug/l ug/l ug/l ug/l ug/l ug/l						
Niphatics > C6-C8 Niphatics > C8-C10 Niphatics > C10-C12 Niphatics > C12-C16 Aqueou Niphatics > C16-C21 Aqueou Niphatics > C21-C35 Aqueou Niphatics > C35-C35 Aqueou Niphatics > C35-C35 Aqueou Niphatics > C35-44	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	117 117 117 117 117 117 117 13 113	0 0 1 3 3 2 1	None > LOD None > LOD 0.9% 2.6% 2.6% 1.7% 7.7%	None > LOD None > LOD 4.3 61 - 350 21 - 140 260 - 810 500 9.9 - 31	None > LOD None > LOD gle Analysis > L 4.222 1.684 9.145 gle Analysis > L 0.362	SBHD06 @ 7.5 - 15 SBHD06 @ 7.5 - 15 BH411 @ Shallow	None > LOD None > LOD 4.3 350 140 810 500 31	None > LOD None > LOD 4.3 61 21 260 500 9.9	Aliphatics CS-C6 Aliphatics > CS-C8 Aliphatics > CS-C10 Aliphatics > CS-C10 Aliphatics > C10-C12 Aliphatics > C12-C16 Aqueous Aliphatics > C12-C16 Aqueous Aliphatics > C21-C35 Aqueous Total Aliphatics CS-C35 Aqueous Aliphatics > C3-C35 Aqueous Aliphatics > C3-C35 Aqueous	ug/l ug/l ug/l ug/l ug/l ug/l ug/l						
Aliphatics > C6-C8 Aliphatics > C8-C10 Aliphatics > C10-C12 Aliphatics > C12-C16 Aqueou Aliphatics > C16-C21 Aqueou Aliphatics > C21-C35 Aqueou Cotal Aliphatics > C5-C35 Aqueou Aliphatics > C5-C35 Aqueou Aliphatics > C5-C35 Aqueou Aliphatics > C5-C35 Aqueou Aliphatics > C5-C35 Aqueou Aliphatics > C5-C35 Aqueou Aliphatics > C5-C35 Aqueou Aliphatics > C5-C35	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	117 117 117 117 117 117 117 113 113 113	0 0 1 3 3 2 1 2	None > LOD None > LOD 0.9% 2.6% 2.6% 1.7% 7.7% 1.8% None > LOD	None > LOD None > LOD 4.3 61 - 350 21 - 140 260 - 810 500 9.9 - 31 None > LOD	None > LOD None > LOD gle Analysis > L 4.222 1.684 9.145 gle Analysis > L 0.362 None > LOD	SBHD06 @ 7.5 - 15 SBHD06 @ 7.5 - 15 BH411 @ Shallow SBHD06 @ 7.5 - 15	None > LOD None > LOD 4.3 350 140 810 500 31 None > LOD	None > LOD None > LOD 4.3 61 21 260 500 9.9 None > LOD	Aliphatics CS-C5 Aliphatics CS-C6 Aliphatics CS-C1 Aliphatics CS-C1 Aliphatics CS-C1 Aliphatics CS-C1 Aliphatics CS-C1 Aliphatics CS-C1 Aliphatics CS-C1 Aliphatics CS-C3 Aliphatics CS-C3 Aliphatics CS-C3 Aqueous Aliphatics CS-C3 Aqueous Aliphatics CS-C3 Aqueous Aliphatics CS-C3 Aqueous Aliphatics CS-C3 Aqueous	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l						
Nijphatics > C6-C8 Nijphatics > C8-C10 Nijphatics > C10-C12 Nijphatics > C12-C16 Aqueou Nijphatics > C16-C21 Aqueou Nijphatics > C16-C21 Aqueou Nijphatics > C1-C35 Aqueou Otal Aliphatics > C35-A4 Normatics > C35-C7 Normatics > C6-C7	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	117 117 117 117 117 117 117 117 13 113 1	0 0 1 3 3 2 1 2 0	None > LOD None > LOD 0.9% 2.6% 2.6% 1.7% 7.7% 1.8% None > LOD None > LOD	None > LOD None > LOD 4.3 61 - 350 21 - 140 260 - 810 500 9.9 - 31 None > LOD None > LOD	None > LOD None > LOD gle Analysis > L 4.222 1.684 9.145 gle Analysis > L 0.362 None > LOD None > LOD	SBHD06 @ 7.5 - 15 SBHD06 @ 7.5 - 15 BH411 @ Shallow SBHD06 @ 7.5 - 15	None > LOD None > LOD 4.3 350 140 810 500 31 None > LOD None > LOD	None > LOD None > LOD 4.3 61 21 260 500 9.9 None > LOD None > LOD None > LOD	Aliphatics CS-C6 Aliphatics SC6-C8 Aliphatics SC6-C8 Aliphatics SC3-C10 Aliphatics SC10-C12 Aliphatics SC12-C16 Aqueous Aliphatics SC12-C16-C11 Aqueous Aliphatics SC12-C35 Aqueous Total Aliphatics CS-C35 Aqueous Aliphatics SC35-Aqueous Aliphatics SC5-C7 Aromatics SC5-C7 Aromatics SC5-C7	ug/I ug/I ug/I ug/I ug/I ug/I ug/I ug/I						
Aliphatics > C6-C8 Aliphatics > C10-C12 Aliphatics > C10-C12 Aliphatics > C12-C16 Aqueo Aliphatics > C12-C16 Aqueo Aliphatics > C12-C15 Aqueo Aliphatics > C21-C35 Aqueo Cotal Aliphatics C5-C35 Aqueo Cotal Aliphatics C5-C35 Aqueo Cotal Aliphatics C5-C35 Aqueo Cotal Aliphatics C5-C7 Aromatics > C5-C7 Aromatics > C7-C8	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	117 117 117 117 117 117 117 117 13 113 1	0 0 1 3 3 2 1 2 0 0	None > LOD None > LOD 0.9% 2.6% 2.6% 1.7% 7.7% 1.8% None > LOD None > LOD	None > LOD None > LOD 4.3 61 - 350 21 - 140 260 - 810 500 9.9 - 31 None > LOD None > LOD None > LOD	None > LOD None > LOD gle Analysis > L 4.222 1.684 9.145 gle Analysis > L 0.362 None > LOD None > LOD	SBHD06 @ 7.5 - 15 SBHD06 @ 7.5 - 15 BH411 @ Shallow SBHD06 @ 7.5 - 15	None > LOD None > LOD None > LOD 4.3 350 140 810 500 31 None > LOD None > LOD	None > LOD None > LOD 4.3 61 21 260 500 9.9 None > LOD None > LOD None > LOD	Aliphatics CS-CS Aliphatics CS-GC-R Aliphatics CS-GC-R Aliphatics CS-GC-R Aliphatics CSI-CD-CI Aliphatics CSI-CD-CI Aliphatics CSI-CS-R Aliphatics CSI-CS-R Aliphatics CSI-CS-R Aliphatics CSI-CS-R Aliphatics CS-CS-R Aliphatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS-CS-R Aromatics CS	ug/I ug/I ug/I ug/I ug/I ug/I ug/I ug/I						
Aliphatics > C6-C8 Aliphatics > C10-C12 Aliphatics > C10-C12 Aliphatics > C12-C16 Aqueox Aliphatics > C12-C15 Aqueox Aliphatics > C21-C35 Aqueox C101 Aliphatics C5-C35 Aqueox Iniphatics > C35-C35 Aqueox Aliphatics > C35-C37 Aromatics > C5-C7 Aromatics > C5-C3 Aromatics > C7-C8 Aromatics > C6-C3 Aromatics > C6-C3 Aromatics > C6-C3 Aromatics > C6-C3 Aromatics > C6-C3 Aromatics > C7-C8 Aromatics > C6-C3 Aromatics > C6-C3 Aromatics > C6-C3 Aromatics > C6-C3 Aromatics > C6-C4 Aromatics > C6-C6 Aromatics > C6-C7 Aromatics > C6-C7 Aromatics > C6-C7 Aromatics > C6-C7 Aromatics > C6-C7 Aromatics > C6-C7 Aromatics > C6-C7 Aromatics > C6-C7 Aromatics > C6-C7 Aromatics > C6-C7 Aromatics > C6-C7 Aromatics > C6-C7 Aromatics > C6-C7 Aromatics > C6-C7 Aromatics > C6-C7 Aromatics > C6-C7 Aromatics > C6-C7 Aromatics > C6-C7 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C7-C8 Arom	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	117 117 117 117 117 117 117 117 13 113 1	0 0 1 3 3 2 1 2 0	None > LOD None > LOD 0.9% 2.6% 1.7% 7.7% 1.8% None > LOD None > LOD None > LOD None > LOD	None > LOD None > LOD 4.3 61 - 350 21 - 140 260 - 810 500 9.9 - 31 None > LOD None > LOD None > LOD	None > LOD None > LOD gle Analysis > L 4.222 1.684 9.145 gle Analysis > L 0.362 None > LOD None > LOD None > LOD None > LOD	S8HD06 @ 7.5 - 15 S8HD06 @ 7.5 - 15 B8411 @ Shallow S8HD06 @ 7.5 - 15 BH411 @ Shallow	None > LOD None > LOD 4.3 350 140 810 500 31 None > LOD None > LOD None > LOD	None > LOD None > LOD 4.3 61 21 260 500 9.9 None > LOD None > LOD None > LOD None > LOD	Aliphatics CS-C6 Aliphatics CS-C6 Aliphatics SC6-C8 Aliphatics SC8-C10 Aliphatics SC1-C10 Aliphatics SC10-C12 Aliphatics SC12-C16 Aqueous Aliphatics SC12-C15 Aqueous Aliphatics SC12-C35 Aqueous Total Aliphatics CS-C35 Aqueous Aliphatics SC35-Aqueous Aliphatics SC5-C7 Aromatics SC5-C7 Aromatics SC5-C7 Aromatics SC7-C8 Aromatics SC7-C8 Aromatics SC7-C8 Aromatics SC8-E10	ug/I ug/I ug/I ug/I ug/I ug/I ug/I ug/I						
Niphatics > C6-C8 Niphatics > C8-C10 Niphatics > C10-C12 Niphatics > C10-C12 Niphatics > C12-C16 Aqueo Niphatics > C12-C16 Aqueo Niphatics > C21-C31 Aqueo Niphatics > C3-C35 Aqueo Niphatics > C3-C35 Aqueo Niphatics > C3-C35 Aqueo Niphatics > C3-C35 Aqueo Nomatics > C3-C4 Nomatics > C7-C8 Nomatics > C7-C8 Nomatics > C7-C8 Nomatics > C10-EC12	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	117 117 117 117 117 117 117 13 113 113 1	0 0 1 3 3 2 1 2 0 0	None > LOD None > LOD 0.9% 2.6% 1.7% 7.7% 1.8% None > LOD None > LOD None > LOD 0.9%	None > LOD None > LOD 4.3 61 - 350 21 - 140 260 - 810 500 9.9 - 31 None > LOD None > LOD None > LOD 4.2	None > LOD None > LOD gle Analysis > L 4.222 1.684 9.145 gle Analysis > L 0.362 None > LOD None > LOD None > LOD gle Analysis > L	SBH006 @ 7.5 - 15 SBH006 @ 7.5 - 15 SBH006 @ 7.5 - 15 SBH006 @ 7.5 - 15 SBH006 @ 7.5 - 15 SH411 @ Shallow	None > LOD None > LOD None > LOD 4.3 350 140 810 500 31 None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD 1,3 61 21 260 500 9.9 None > LOD None > LOD None > LOD None > LOD 4,2	Aliphatics CS-CS Aliphatics CS-CS-CS Aliphatics CS-CS-CS Aliphatics CS-CS-CS Aliphatics CSI-CD-CI Aliphatics CSI-CS-CS Aliphatics CSI-CS-CS Aliphatics CSI-CS-CS Aliphatics CSI-CS-CS Aliphatics CSI-CS-CS Aliphatics CS-CS-CS Aromatics CS-CS-CS Aromatics CS-CS-CS Aromatics CS-CS-CS Aromatics CS-CS-CS Aromatics CS-CS-CS Aromatics CS-CS-CS-CS-CS-CS-CS-CS-CS-CS-CS-CS-CS-C	ug/i ug/i ug/i ug/i ug/i ug/i ug/i ug/i						
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GROUNDWATER (ALL DATA) WATER			Analyses	Above EQS		Analyses A	bove DWS
Parameter	Units	EQS	No.	%'age	DWS	No.	%'age
Metals							
Arsenic Dissolved	ug/l	50	2	1.7%	10	27	23.1%
Beryllium Dissolved	ug/l						
Boron Dissolved	ug/l	2000	10	8.8%	1000	29	25.7%
Calcium Dissolved	ug/l					18	15.4%
Chromium Dissolved	ug/l	10	32	27.4%	50	0	
Copper Dissolved Iron Dissolved	ug/l	1000	2	11.8%	2000	5	None>DW 29.4%
Lead Dissolved	ug/l	1.2	5	4.3%	10	0	None>DW
	ug/l	1.2	5	4.5%	10	U	None>DW
Magnesium Dissolved Manganese Dissolved	ug/l ug/l	30	5	31.3%	50	2	12.5%
Nickel Dissolved	ug/I	4	39	33.3%	20	1	0.9%
		4	39	33.376	10	24	20.5%
Selenium Dissolved Cadmium Dissolved	ug/l	0.15	6	5.3%	5	0	None>DW
Vanadium Dissolved	ug/l	0.15		3.376	5	U	None>DW
Vanadium Dissolved Zinc Dissolved	ug/l	75	0	None>EQS			-
Mercury Dissolved	ug/l	0.07	20	17.7%	1	8	7.1%
Cadmium Total	ug/l	0.07	5	31.3%	5	1	6.3%
Zinc Total	ug/l ug/l	75	2	15.4%	- 5	1	0.3%
		0.07	3	18.8%	1	0	None>DW
Mercury Total	ug/l	0.07	3	10.076	1	U	None>DW.
Non-Metal Inorganics							
Hardness Total	mg/l	\vdash		+	 		-
Total Alkalinity as CaCO3	mg/l	5	2	15.4%	 		-
COD	mg/l	5		13.4%	 		-
COD Potassium Dissolved	mg/l mg/l			1			-
Potassium Dissolved Sodium Dissolved				-	200	1	6.3%
	mg/l			-	200 50	0	6.3% None>DW
Nitrate as NO3	mg/l			-	50	U	None>DW
Total Diss Sulphur Sulphate (soluble)	mg/l mg/l	400	0	None>EQS	250	3	18.8%
Sulphate (soluble) Chloride		400 250	14	None>EQS 23.0%	250 250	14	18.8%
	mg/l	250	14	23.0%	250	14	23.0%
Sulphide	mg/l		18	24.007			
Ammoniacal Nitrogen as N	mg/l	0.6	18	31.0%			
Unionised ammonia Total Ammonium as NH4	mg/l			-	0.5	1	7.1%
	mg/l				0.5	1	7.1%
Phenols Monohydric	mg/l						
Thiocyanate	mg/l						
Total Cyanide	mg/l	0.001	3	18.8%	0.05	0	None>DW
Free Cyanide	mg/l						
Complex Cyanide	mg/l						
Carbon Dioxide Dissolved	ug/l						
pH Value	pH units	6-9	8	6.8%	6.5-10	6	5.1%
Organics							
GRO (C4-C12)	ug/l						
MTBE	ug/l						
Benzene	ug/l	10	0	None>EQS	1	3	2.5%
Toluene	ug/l	50	0	None>EQS			
Ethyl benzene	ug/l	20	0	None>EQS			
m & p Xylene	ug/l	30	0	None>EQS None>EQS			
o Xylene	ug/I	30	0				
TPH				NOTIE/LQ3			
Aliphatics C5-C6				Notie>Eq3			
	ug/l			Nonezcos			
	ug/l			Nonezzas			
Aliphatics >C8-C10	ug/l ug/l			NoticeEdg			
Aliphatics >C8-C10 Aliphatics >C10-C12	ug/l ug/l ug/l			Notestas			
Aliphatics >C8-C10 Aliphatics >C10-C12 Aliphatics >C12-C16 Aqueous	ug/l ug/l ug/l ug/l			Notesta			
Aliphatics >C8-C10 Aliphatics >C10-C12 Aliphatics >C12-C16 Aqueous Aliphatics >C16-C21 Aqueous	ug/l ug/l ug/l ug/l ug/l			None-Ecg			
Aliphatics > C8-C10 Aliphatics > C10-C12 Aliphatics > C12-C16 Aqueous Aliphatics > C16-C21 Aqueous Aliphatics > C21-C35 Aqueous	ug/1 ug/1 ug/1 ug/1 ug/1 ug/1			WORLE-EUG			
Aliphatics >C8-C10 Aliphatics >C10-C12 Aliphatics >C12-C16 Aqueous Aliphatics >C16-C21 Aqueous Aliphatics >C21-C35 Aqueous Total Aliphatics C5-C35 Aqueous	ug/l ug/l ug/l ug/l ug/l ug/l			Numercus			
Aliphatics > C8-C10 Aliphatics > C10-C12 Aliphatics > C10-C12 Aliphatics > C16-C21 Aqueous Aliphatics > C21-C35 Aqueous Total Aliphatics C5-C35 Aqueous Aliphatics > C35-C35 Aqueous	ug/l ug/l ug/l ug/l ug/l ug/l ug/l			None-La			
Aliphatics > C8-C10 Aliphatics > C10-C12 Aliphatics > C10-C12 Aliphatics > C12-C16 Aqueous Aliphatics > C16-C21 Aqueous Aliphatics > C21-C35 Aqueous Total Aliphatics C5-C35 Aqueous Aliphatics > C35-44 Aromatics > C5-C7	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l			None-La			
Aliphatics > C8-C10 Aliphatics > C10-C12 Aliphatics > C10-C12 Aliphatics > C16-C16 Aqueous Aliphatics > C16-C21 Aqueous Aliphatics > C16-C21 Aqueous Total Aliphatics > C3-C35 Aqueous Aliphatics > C3-C35-Aqueous Aliphatics > C3-C35-C4 Aromatics > C5-C7 Aromatics > C5-C7	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l			None-La			
Aliphatics > C8-C10 Aliphatics > C10-C12 Aliphatics > C10-C12 Aliphatics > C12-C16 Aqueous Aliphatics > C16-C21 Aqueous Aliphatics > C16-C21 Aqueous Total Aliphatics > C3-C35 Aqueous Total Aliphatics > C3-S4 Aromatics > C3-C4 Aromatics > C3-C7 Aromatics > C7-C8	ug/1 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1			noneacy			
Aliphatics > C8-C10 Aliphatics > C10-C12 Aliphatics > C12-C16 Aqueous Aliphatics > C12-C21 Aqueous Aliphatics > C16-C21 Aqueous Aliphatics > C16-C23 Aqueous Total Aliphatics > C3-C35 Aqueous Aliphatics > C3-C35 Aqueous Aliphatics > C3-C35 Aqueous Aliphatics > C3-C3 Aromatics > C7-C7 Aromatics > C7-C8 Aromatics > C7-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C8 Aromatics > C8-C	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l			NUMBAG			
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		No.	Analyses	Above LOD	Concen	tration	Location with Maximum	Max	Min
Parameter	Units	Analyses	No.	%'age	Range	Avergae	Concentration		
Dimethylphenols Trimethylphenols	ug/l ug/l	9	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD		None > LOD None > LOD	None > LOD None > LOD
2-Chlorophenol 2 - Methyl-4,6-Dinitrophenol	ug/l ug/l	35 31	3 0	8.6% None > LOD	50 - 50 None > LOD	4.286 None > LOD	Location @ Installation Details	50 None > LOD	50 None > LOD
2-Methylphenol 2-Nitrophenol	ug/l ug/l	35 35	3 0	8.6% None > LOD	100 - 100 None > LOD	8.571 None > LOD	Location @ Installation Details	100 None > LOD	100 None > LOD
2,4-Dichlorophenol 2,4-Dimethylphenol	ug/l ug/l	35 35	0	8.6% None > LOD	20 - 20 None > LOD	1.714 None > LOD	Location @ Installation Details	20 None > LOD	20 None > LOD
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	ug/l ug/l	35 35 35	1 1 3	2.9% 2.9% 8.6%	0.64 0.68 40 - 40	gle Analysis > Lo gle Analysis > Lo 3.429	BH549 @ Deep BH549 @ Deep Location @ Installation Details	0.64 0.68 40	0.64 0.68 40
4-Chloro-3-methylphenol 4-Methylphenol 4-Nitrophenol	ug/l ug/l ug/l	35 13	3 0	8.6% None > LOD	100 - 100 None > LOD	8.571 None > LOD	Location @ Installation Details	100 None > LOD	100 None > LOD
Pentachlorophenol Phenol	ug/l ug/l	35 35	3	8.6% 8.6%	0.4 - 0.4 7.7 - 7.7	0.034 0.660	Location @ Installation Details Location @ Installation Details	0.4 7.7	0.4 7.7
Phenols	mg/I	58	7	12.1%	0.0077 - 0.08	0.004	BH404 @ Deep	0.08	0.0077
2-Chloronaphthalene 2-Methylnaphthalene	ug/l ug/l	35 35	0	None > LOD None > LOD	None > LOD	None > LOD None > LOD		None > LOD None > LOD	None > LOD None > LOD
Acenaphthene Acenaphthylene	ug/l ug/l	119 119 119	0 0 3	None > LOD None > LOD 2.5%	None > LOD None > LOD	None > LOD None > LOD	Landing O landallating Dataile	None > LOD None > LOD	None > LOD None > LOD
Anthracene Benzo(a)anthracene Benzo(a)pyrene	ug/l ug/l ug/l	119 119 122	0 6	2.5% None > LOD 4.9%	0.1 - 0.1 None > LOD 0.00017 - 0.01	0.003 None > LOD 0.000	Location @ Installation Details @	0.1 None > LOD 0.01	0.1 None > LOD 0.00017
Benzo(b)fluoranthene Benzo(ghi)perylene	ug/l ug/l	122	6	4.9%	0.017 - 0.1 0.0082 - 0.1	0.003 0.020	@	0.1	0.017 0.0082
Benzo(k)fluoranthene Chrysene	ug/l ug/l	122 119	6 0	4.9% None > LOD	0.017 - 0.1 None > LOD	0.003 None > LOD	@	0.1 None > LOD	0.017 None > LOD
Dibenzo(a,h)anthracene Fluoranthene	ug/l ug/l	119 119	3	None > LOD 2.5%	None > LOD 0.0063 - 0.0063	None > LOD 0.000	Location @ Installation Details	None > LOD 0.0063	None > LOD 0.0063
Fluorene Indeno(1,2,3-cd)pyrene Naphthalene	ug/l ug/l ug/l	119 122 119	0 3 3	None > LOD 2.5% 2.5%	None > LOD 0.1 - 0.1 2 - 2	None > LOD 0.002 0.050	@ Location @ Installation Details	None > LOD 0.1 2	None > LOD 0.1 2
Phenanthrene Pyrene	ug/l ug/l	119	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD	Education & Installation Details	None > LOD None > LOD	None > LOD None > LOD
Total PAHs (USEPA 16)	ug/l	115	0	None > LOD	None > LOD	None > LOD		None > LOD	None > LOD
Bis(2-ethylhexyl) phthalate Butylbenzyl phthalate	ug/l ug/l	35 35	3	8.6% 8.6%	1.3 - 1.3 20 - 20	0.111 1.714	Location @ Installation Details Location @ Installation Details	1.3 20	1.3 20
Di-n-butyl phthalate Di-n-Octyl phthalate	ug/l ug/l	35 35	3	8.6% 8.6%	8 - 8 20 - 20	0.686 1.714	Location @ Installation Details Location @ Installation Details	8 20	8 20
Diethyl phthalate Dimethyl phthalate	ug/l ug/l	35 35	3	8.6% 8.6%	200 - 200 800 - 800	17.143 68.571	Location @ Installation Details Location @ Installation Details	200 800	200 800
Full suite 1.1.1.2-Tetrachloroethane	ug/l	9	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD		None > LOD None > LOD	None > LOD None > LOD
1,1,1-Trichloroethane 1,1,1-Trichloroethane	ug/l ug/l ug/l	35 16	3	8.6% None > LOD	100 - 100 None > LOD	8.571 None > LOD	Location @ Installation Details	100 None > LOD	100 None > LOD
1,1,2-Trichloroethane 1,1-Dichloroethane	ug/l ug/l	35 35	3 0	8.6% None > LOD	400 - 400 None > LOD	34.286 None > LOD	Location @ Installation Details	400 None > LOD	400 None > LOD
1,1-Dichloroethene 1,1-Dichloropropene	ug/l ug/l	35 35	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD		None > LOD None > LOD	None > LOD None > LOD
1,2,3-Trichlorobenzene 1,2,3-Trichloropropane	ug/l ug/l	35 35	0	8.6% None > LOD	0.4 - 0.4 None > LOD	0.034 None > LOD	Location @ Installation Details	0.4 None > LOD	0.4 None > LOD
1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromo-3-Chloropropar	ug/l ug/l	35 35 35	0 0	8.6% None > LOD None > LOD	0.4 - 0.4 None > LOD None > LOD	0.034 None > LOD None > LOD	Location @ Installation Details	0.4 None > LOD None > LOD	0.4 None > LOD None > LOD
1,2-Dibromoethane 1,2-Dichlorobenzene	ug/l ug/l ug/l	35 35	0	None > LOD 8.6%	None > LOD 20 - 20	None > LOD 1.714	Location @ Installation Details	None > LOD 20	None > LOD
1,2-Dichloroethane 1,2-Dichloropropane	ug/l ug/l	38 35	6	15.8% None > LOD	3 - 10 None > LOD	1.026 None > LOD	Location @ Installation Details	10 None > LOD	3 None > LOD
1,3,5-Trimethylbenzene 1,3-Dichloropropane	ug/l ug/l	35 35	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD		None > LOD None > LOD	None > LOD None > LOD
1,4-Dichlorobenzene 2-Chlorotoluene	ug/l ug/l	35 35	3 0	8.6% None > LOD	20 - 20 None > LOD	1.714 None > LOD	Location @ Installation Details	20 None > LOD	20 None > LOD
4-Chlorotoluene 4-Isopropyltoluene	ug/l ug/l	35 35	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD		None > LOD None > LOD	None > LOD None > LOD
Benzene Bromobenzene Bromochloromethane	ug/l ug/l ug/l	120 35 38	6 0 3	5.0% None > LOD 7.9%	1 - 10 None > LOD 100 - 100	0.275 None > LOD 7.895	Location @ Installation Details @	10 None > LOD 100	None > LOD 100
Bromodichloromethane Bromoform	ug/l ug/l	35 13	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD	-	None > LOD None > LOD	None > LOD None > LOD
Bromomethane Carbon Disulphide	ug/l ug/l	35 13	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD		None > LOD None > LOD	None > LOD None > LOD
Chlorobenzene Chloroethane	ug/l ug/l	35 35	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD		None > LOD None > LOD	None > LOD None > LOD
Chloroethene Chloroform Chloromethane	ug/l ug/l	31 38 35	0 6 0	None > LOD 15.8% None > LOD	None > LOD 2.5 - 100 None > LOD	None > LOD 8.092 None > LOD	@	None > LOD 100	None > LOD 2.5 None > LOD
cis-1,2-Dichloroethene cis-1,3-Dichloropropene	ug/l ug/l ug/l	35 35	0	None > LOD None > LOD	None > LOD	None > LOD None > LOD		None > LOD None > LOD None > LOD	None > LOD None > LOD
Dibromochloromethane Dibromomethane	ug/l ug/l	38 35	3 0	7.9% None > LOD	100 - 100 None > LOD	7.895 None > LOD	@	100 None > LOD	100 None > LOD
Dichlorodifluoromethane Dichloromethane	ug/l ug/l	35 13	0	None > LOD 23.1%	None > LOD 20 - 20	None > LOD 4.615		None > LOD 20	None > LOD 20
Ethylbenzene Hexachlorobutadiene (HCBD	ug/l ug/l	117 35	3	2.6% 8.6%	20 - 20 0.6 - 0.6	0.513 0.051	Location @ Installation Details Location @ Installation Details	20 0.6	20 0.6
Isopropylbenzene m,p xylenes	ug/l ug/l	35 117 35	0 3 0	None > LOD 2.6% None > LOD	None > LOD 30 - 30	None > LOD 0.769 None > LOD	Location @ Installation Details	None > LOD 30 None > LOD	None > LOD 30 None > LOD
Methyl tert-butyl ether (MTE n-Butylbenzene n-propylbenzene	ug/l ug/l ug/l	35 35	0	None > LOD None > LOD	None > LOD None > LOD None > LOD	None > LOD None > LOD		None > LOD None > LOD	None > LOD None > LOD
O-Xylene Sec-Butylbenzene	ug/l ug/l	117 35	3 0	2.6% None > LOD	30 - 30 None > LOD	0.769 None > LOD	Location @ Installation Details	30 None > LOD	30 None > LOD
Styrene Tert-Butylbenzene	ug/l ug/l	35 35	3	8.6% None > LOD	50 - 50 None > LOD	4.286 None > LOD	Location @ Installation Details	50 None > LOD	50 None > LOD
Tetrachloroethene Tetrachloromethane (Carbor	ug/l ug/l	38 38	6	15.8% 15.8%	10 - 10 3 - 12	1.579 1.184	Location @ Installation Details Location @ Installation Details	10 12	10 3
Toluene trans-1,2-Dichloroethene	ug/l ug/l	117 35 35	0 0	None > LOD	2 - 50 None > LOD	1.299 None > LOD None > LOD	Location @ Installation Details	None > LOD None > LOD	None > LOD None > LOD
trans-1,3-Dichloropropene Tribromomethane Trichloroethene	ug/l ug/l ug/l	34 38	3 6	None > LOD 8.8% 15.8%	None > LOD 100 - 100 10 - 10	8.824 1.579	@ Location @ Installation Details	100 10	100 10
Trichlorofluoromethane Vinly Chloride	ug/l ug/l	35 16	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD		None > LOD None > LOD	None > LOD None > LOD
1,2-Dichlorobenzene	ug/l	35	3	8.6%	20 - 20	1.714	Location @ Installation Details	20	20
1,2,4-Trichlorobenzene 1,3-Dichlorobenzene	ug/l ug/l	35 35	3	8.6% 8.6%	0.4 - 0.4 20 - 20	0.034 1.714	Location @ Installation Details Location @ Installation Details	0.4 20	0.4 20
1,4-Dichlorobenzene 2-Nitroaniline	ug/l ug/l	35 35	0	8.6% None > LOD	20 - 20 None > LOD	1.714 None > LOD	Location @ Installation Details	None > LOD	20 None > LOD
2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Methylnaphthalene	ug/l ug/l ug/l	35 35 35	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD
3-Nitroaniline 4-Bromophenylphenylether	ug/l ug/l	35 13	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD		None > LOD None > LOD	None > LOD None > LOD
4-Chloroaniline 4-Chlorophenylphenylether	ug/l ug/l	35 13	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD		None > LOD None > LOD	None > LOD None > LOD
4-Nitroaniline Azobenzene	ug/l ug/l	35 35	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD		None > LOD None > LOD	None > LOD None > LOD
Bis(2-chloroethoxy)methane Bis(2-chloroethyl)ether	ug/l ug/l	35 35	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD		None > LOD None > LOD	None > LOD None > LOD
Bis(2-chloroisopropyl)ether Carbazole Dibenzofuran	ug/l ug/l	31 35 35	0 0	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD		None > LOD None > LOD None > LOD	None > LOD None > LOD None > LOD
Hexachlorobenzene Hexachlorobutadiene	ug/l ug/l ug/l	35 35 35	3	8.6% 8.6%	0.05 - 0.05 0.6 - 0.6	0.004 0.051	Location @ Installation Details Location @ Installation Details	0.05 0.6	0.05 0.6
Hexachlorocyclopentadiene Hexachloroethane	ug/l ug/l	35 35	0	None > LOD 2.9%	None > LOD 0.98	None > LOD gle Analysis > L	BH545 @	None > LOD 0.98	None > LOD 0.98
Isophorone N-nitrosodi-n-propylamine	ug/l ug/l	35 13	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD		None > LOD None > LOD	None > LOD None > LOD
Nitrobenzene	ug/I	35	0	None > LOD	None > LOD	None > LOD		None > LOD	None > LOD

	ı	1	Analyses	Above EQS	1	Analyses A	have DWS
Parameter	Units	EQS	No.	%'age	DWS	No.	%'age
Phenols Dimethylphenols	ug/I						
Trimethylphenols 2-Chlorophenol	ug/l ug/l	50	0	None>EQS			
2 - Methyl-4,6-Dinitrophenol 2-Methylphenol	ug/l ug/l	100	0	None>EQS			
2-Nitrophenol 2,4-Dichlorophenol	ug/l ug/l	20	0	None>EQS			
2,4-Dimethylphenol 2,4,5-Trichlorophenol	ug/l ug/l						
2,4,6-Trichlorophenol 4-Chloro-3-methylphenol	ug/l ug/l	40	0	None>EQS			
4-Methylphenol 4-Nitrophenol	ug/l ug/l	100	0	None>EQS			
Pentachlorophenol Phenol	ug/l ug/l	0.4 7.7	0	None>EQS None>EQS			
Phenols PAHs	mg/l	0.0077	4	6.9%			
2-Chloronaphthalene 2-Methylnaphthalene	ug/l ug/l						
Acenaphthene Acenaphthylene	ug/l ug/l						
Anthracene Benzo(a)anthracene	ug/l ug/l	0.1	0	None>EQS 2.5%	0.01	0	None>DWS
Benzo(a)pyrene Benzo(b)fluoranthene Benzo(ghi)perylene	ug/l ug/l ug/l	0.0017	3	2.5% 2.5% 18.8%	0.01 0.1	0	None>DWS None>DWS
Benzo(k)fluoranthene Chrysene	ug/l ug/l	0.0082	3	2.5%	0.1	0	None>DWS
Dibenzo(a,h)anthracene Fluoranthene	ug/l ug/l	0.0063	0	None>EQS			
Fluorene Indeno(1,2,3-cd)pyrene	ug/l ug/l	0.0003	Ů	Nonezcos	0.1	0	None>DWS
Naphthalene Phenanthrene	ug/l ug/l	2	0	None>EQS		Ť	
Pyrene Total PAHs (USEPA 16)	ug/l ug/l						
Phthalates Bis(2-ethylhexyl) phthalate	ug/I	1.3	0	None>EQS			
Butylbenzyl phthalate Di-n-butyl phthalate	ug/l ug/l	20	0	None>EQS None>EQS			
Di-n-Octyl phthalate Diethyl phthalate	ug/l ug/l	20 200	0	None>EQS None>EQS			
Dimethyl phthalate VOCs	ug/l	800	0	None>EQS			
Full suite 1,1,1,2-Tetrachloroethane	ug/l ug/l						
1,1,1-Trichloroethane 1,1,1,2,2-Tetrachloroethane	ug/l ug/l	100 #N/A	0	None>EQS #N/A	#N/A		
1,1,2-Trichloroethane 1,1-Dichloroethane	ug/l ug/l	400	0	None>EQS			
1,1-Dichloroethene 1,1-Dichloropropene	ug/l ug/l						
1,2,3-Trichlorobenzene 1,2,3-Trichloropropane	ug/l ug/l	0.4	0	None>EQS			
1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	ug/l ug/l	0.4	0	None>EQS			
1,2-Dibromo-3-Chloropropane 1,2-Dibromoethane	ug/l ug/l						
1,2-Dichlorobenzene 1,2-Dichloroethane	ug/l ug/l	20 10	0	None>EQS None>EQS	3	3	7.9%
1,2-Dichloropropane 1,3,5-Trimethylbenzene	ug/l ug/l						
1,3-Dichloropropane 1,4-Dichlorobenzene	ug/l ug/l	20	0	None>EQS			
2-Chlorotoluene 4-Chlorotoluene	ug/l ug/l						
4-Isopropyltoluene Benzene	ug/l ug/l	10	0	None>EQS	1	3	2.5%
Bromochloromethane	ug/l ug/l				100	0	None>DWS
Bromodichloromethane Bromoform Bromomethane	ug/l ug/l						
Carbon Disulphide Chlorobenzene	ug/l ug/l ug/l						
Chloroethane Chloroethene	ug/l ug/l						
Chloroform Chloromethane	ug/l ug/l	2.5	3	7.9%	100	0	None>DWS
cis-1,2-Dichloroethene cis-1.3-Dichloropropene	ug/l ug/l						
Dibromochloromethane Dibromomethane	ug/l ug/l				100	0	None>DWS
Dichlorodifluoromethane Dichloromethane	ug/l ug/l	20		None>EQS			
Ethylbenzene Hexachlorobutadiene (HCBD)	ug/l ug/l	20	0	None>EQS None>EQS			
Isopropylbenzene m,p xylenes	ug/l ug/l	30	0	None>EQS			
Methyl tert-butyl ether (MTBE) n-Butylbenzene	ug/l ug/l						
n-propylbenzene O-Xylene	ug/l ug/l	30	0	None>EQS			
Sec-Butylbenzene Styrene	ug/l ug/l	50	0	None>EQS			
Tert-Butylbenzene Tetrachloroethene	ug/l ug/l	10	0	None>EQS	10	0	None>DWS
Tetrachloromethane (Carbon Tetra Ci Toluene	ug/l ug/l	12 50	0	None>EQS None>EQS	3	3	7.9%
trans-1,2-Dichloroethene trans-1,3-Dichloropropene	ug/l ug/l						
Trichloroethene	ug/l ug/l	10	0	None>EQS	100 10	0	None>DWS None>DWS
Trichlorofluoromethane Vinly Chloride	ug/l ug/l	#N/A		#N/A	#N/A		
Other Semi-Volatiles 1,2-Dichlorobenzene	ug/l	20	0	None>EQS			
1,2,4-Trichlorobenzene 1,3-Dichlorobenzene	ug/l ug/l	0.4 20	0	None>EQS None>EQS			
1,4-Dichlorobenzene 2-Nitroaniline 2-A-Dinitrotoluene	ug/l ug/l	20	0	None>EQS			
2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Methylnaphthalene	ug/l ug/l ug/l						
2-Metnyinaphthalene 3-Nitroaniline 4-Bromophenylphenylether	ug/l						
4-Chloroaniline	ug/l ug/l ug/l						
4-Chlorophenylphenylether 4-Nitroaniline Azobenzene	ug/l						
Bis(2-chloroethoxy)methane Bis(2-chloroethyl)ether	ug/l ug/l ug/l						
Bis(2-chloroisopropyl)ether Carbazole	ug/l						
Dibenzofuran Hexachlorobenzene	ug/l ug/l ug/l	0.05	0	None>EQS			
Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene	ug/I ug/I ug/I	0.05	0	None>EQS			
Hexachloroethane Isophorone	ug/l ug/l						
N-nitrosodi-n-propylamine Nitrobenzene	ug/l ug/l						

Analyses Ab	ove DWS %'age
0 0	None>DWS None>DWS None>DWS None>DWS
0	None>DWS
3	7.9%
3	2.5%
0	None>DWS
	None>DWS
0	None>DWS
	None>DWS 7.9%
0	None>DWS None>DWS

		1.2	2.1	2.2	3.1	8.1 8.2	2 11.1	14.2	17.1	17.2	18.1	19.1	19.2	20.1	22.1	20.1 [old]	5.2 [old]		R10			R11			R12			R13			R14			R15				R16			R17			R	18
Parameter	Units	Q1	Q1	Q1	Q1	Q1 Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	1	2 3	4	1 :	2 3	4 1	2	3	4	1 2	3	4	1 2	3	4	1	2 3	4	1	2	3	4	1	2	3 4	1	. 2	3
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General Parameters Alkalinity	mg CaCO3/																														_		_	_			+					_			\vdash
Total Hardness as CaCO3	mg/l																						447 20																		170 3				491
Ammoniacal Nitrogen as N	mg/l	<lod< td=""><td></td><td></td><td></td><td><lod <lo<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.732</td><td></td><td></td><td></td><td></td><td></td><td>0.92 <lc< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.5</td></lc<></td></lod></td></lod<>				<lod <lo<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.732</td><td></td><td></td><td></td><td></td><td></td><td>0.92 <lc< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.5</td></lc<></td></lod>											0.732						0.92 <lc< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.5</td></lc<>																						0.5
BOD + ATU (5 day) Calcium (diss.filt)	mg/l mg/l					<lod <lo<br="">34.7 34.</lod>			54.1			98.1		67.3		<lod 17.2</lod 	53		82 4.				33 8 110 68		3.5	61	69 83											71			83 1			19 75	152
Chloride	mg/l					15.6 15.		31.3				125	_	49.3	_	7.4	127	_	62 1	_	21 1	_	21 17	_		16		31									_	37	_	_	11 2	28 23	3 99	9 68	-
Conductivity	uS/cm						591											277	666 55	2 671	414 6	20 626	719 40	2 427	506	445	490 44	3 574	450 5	21 38	645	733	422 4	25 59	8 48	3 476	6 37	3 651	660	678	424 9	11 84	5 105	58 701	1045 1
Cyanide	mg/l	11.7	0.20	12.6	10.6	11.7 12	2 2 26	7.44	6.5	2.40	2.74	4.55	0.17	4.0	0.50	44.4	7.22	100	1 5 5 1 6	7 4 04	66 5	C7 0 4	1 2 22 7 6	2 42 7	2 0 62	7.0	6 47 7 7	2 0 01	176 2	F4 F 3	7 1 02	1.62.7	> 50 7	FO 0.6	1 60	0.00	7 70	0 0 1 4	C 01	5.50	F.C. (10.0	10 4 3	20 4 02	1.00
Dissolved oxygen Dissolved oxygen (saturation)	mg/l %	11.7	8.39	13.6	10.6	11.7 13.	2 3.36	7.41	6.5	2.48	2.71	4.55	8.17	4.9	8.59	11.1	7.23						3.23 7.6																					_	1.68 1
Magnesium dissolved as Mg	mg/l	+					+	+					 	 				_	14 1.	_		_	16 13	_																_	17	_	_		34
Nitrogen, Total Oxidised as N	mg/l	0.391	6.91	1.84	8.47	0.489 0.42	25 <lod< td=""><td><lod< td=""><td>9.43</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.123</td><td>0.362</td><td>4.77</td><td><lod< td=""><td>0.977</td><td><lod< td=""><td><lod <lo<="" td=""><td></td><td></td><td></td><td>C <lod 2.<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5 <lod< td=""><td></td><td></td><td>0.4 <1</td><td></td><td></td><td></td><td><lod <<="" td=""></lod></td></lod<></td></lod></td></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>9.43</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.123</td><td>0.362</td><td>4.77</td><td><lod< td=""><td>0.977</td><td><lod< td=""><td><lod <lo<="" td=""><td></td><td></td><td></td><td>C <lod 2.<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5 <lod< td=""><td></td><td></td><td>0.4 <1</td><td></td><td></td><td></td><td><lod <<="" td=""></lod></td></lod<></td></lod></td></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	9.43	<lod< td=""><td><lod< td=""><td><lod< td=""><td>0.123</td><td>0.362</td><td>4.77</td><td><lod< td=""><td>0.977</td><td><lod< td=""><td><lod <lo<="" td=""><td></td><td></td><td></td><td>C <lod 2.<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5 <lod< td=""><td></td><td></td><td>0.4 <1</td><td></td><td></td><td></td><td><lod <<="" td=""></lod></td></lod<></td></lod></td></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>0.123</td><td>0.362</td><td>4.77</td><td><lod< td=""><td>0.977</td><td><lod< td=""><td><lod <lo<="" td=""><td></td><td></td><td></td><td>C <lod 2.<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5 <lod< td=""><td></td><td></td><td>0.4 <1</td><td></td><td></td><td></td><td><lod <<="" td=""></lod></td></lod<></td></lod></td></lod></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>0.123</td><td>0.362</td><td>4.77</td><td><lod< td=""><td>0.977</td><td><lod< td=""><td><lod <lo<="" td=""><td></td><td></td><td></td><td>C <lod 2.<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5 <lod< td=""><td></td><td></td><td>0.4 <1</td><td></td><td></td><td></td><td><lod <<="" td=""></lod></td></lod<></td></lod></td></lod></td></lod<></td></lod<></td></lod<>	0.123	0.362	4.77	<lod< td=""><td>0.977</td><td><lod< td=""><td><lod <lo<="" td=""><td></td><td></td><td></td><td>C <lod 2.<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5 <lod< td=""><td></td><td></td><td>0.4 <1</td><td></td><td></td><td></td><td><lod <<="" td=""></lod></td></lod<></td></lod></td></lod></td></lod<></td></lod<>	0.977	<lod< td=""><td><lod <lo<="" td=""><td></td><td></td><td></td><td>C <lod 2.<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5 <lod< td=""><td></td><td></td><td>0.4 <1</td><td></td><td></td><td></td><td><lod <<="" td=""></lod></td></lod<></td></lod></td></lod></td></lod<>	<lod <lo<="" td=""><td></td><td></td><td></td><td>C <lod 2.<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5 <lod< td=""><td></td><td></td><td>0.4 <1</td><td></td><td></td><td></td><td><lod <<="" td=""></lod></td></lod<></td></lod></td></lod>				C <lod 2.<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5 <lod< td=""><td></td><td></td><td>0.4 <1</td><td></td><td></td><td></td><td><lod <<="" td=""></lod></td></lod<></td></lod>															5 <lod< td=""><td></td><td></td><td>0.4 <1</td><td></td><td></td><td></td><td><lod <<="" td=""></lod></td></lod<>			0.4 <1				<lod <<="" td=""></lod>
Nitrate as NO3	mg/l	_				2.11 1.8											4.24						O <lod 10<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td>_</td><td>_</td><td></td><td><lod <<="" td=""></lod></td></lod>																	_		_	_		<lod <<="" td=""></lod>
Nitrite as NO2	mg/l pH Units	0.05	0.055	0.112	0.065	<lod <lo<="" td=""><td>7.93</td><td>C <lod< td=""><td>0.156</td><td>0.06</td><td><lod< td=""><td><lod< td=""><td>0.057</td><td>0.083</td><td><lod< td=""><td><lod< td=""><td>0.06</td><td></td><td></td><td></td><td></td><td></td><td>7 7.</td><td></td><td></td><td></td><td><lod <l0<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1 <lod 5 8.1</lod </td><td></td><td></td><td><lod <i<br="">7.5 8</lod></td><td></td><td></td><td></td><td>0.2 < 7.8</td></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod>	7.93	C <lod< td=""><td>0.156</td><td>0.06</td><td><lod< td=""><td><lod< td=""><td>0.057</td><td>0.083</td><td><lod< td=""><td><lod< td=""><td>0.06</td><td></td><td></td><td></td><td></td><td></td><td>7 7.</td><td></td><td></td><td></td><td><lod <l0<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1 <lod 5 8.1</lod </td><td></td><td></td><td><lod <i<br="">7.5 8</lod></td><td></td><td></td><td></td><td>0.2 < 7.8</td></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	0.156	0.06	<lod< td=""><td><lod< td=""><td>0.057</td><td>0.083</td><td><lod< td=""><td><lod< td=""><td>0.06</td><td></td><td></td><td></td><td></td><td></td><td>7 7.</td><td></td><td></td><td></td><td><lod <l0<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1 <lod 5 8.1</lod </td><td></td><td></td><td><lod <i<br="">7.5 8</lod></td><td></td><td></td><td></td><td>0.2 < 7.8</td></lod></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>0.057</td><td>0.083</td><td><lod< td=""><td><lod< td=""><td>0.06</td><td></td><td></td><td></td><td></td><td></td><td>7 7.</td><td></td><td></td><td></td><td><lod <l0<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1 <lod 5 8.1</lod </td><td></td><td></td><td><lod <i<br="">7.5 8</lod></td><td></td><td></td><td></td><td>0.2 < 7.8</td></lod></td></lod<></td></lod<></td></lod<>	0.057	0.083	<lod< td=""><td><lod< td=""><td>0.06</td><td></td><td></td><td></td><td></td><td></td><td>7 7.</td><td></td><td></td><td></td><td><lod <l0<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1 <lod 5 8.1</lod </td><td></td><td></td><td><lod <i<br="">7.5 8</lod></td><td></td><td></td><td></td><td>0.2 < 7.8</td></lod></td></lod<></td></lod<>	<lod< td=""><td>0.06</td><td></td><td></td><td></td><td></td><td></td><td>7 7.</td><td></td><td></td><td></td><td><lod <l0<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1 <lod 5 8.1</lod </td><td></td><td></td><td><lod <i<br="">7.5 8</lod></td><td></td><td></td><td></td><td>0.2 < 7.8</td></lod></td></lod<>	0.06						7 7.				<lod <l0<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1 <lod 5 8.1</lod </td><td></td><td></td><td><lod <i<br="">7.5 8</lod></td><td></td><td></td><td></td><td>0.2 < 7.8</td></lod>											1 <lod 5 8.1</lod 			<lod <i<br="">7.5 8</lod>				0.2 < 7.8
Phosphate, Ortho as P	mg/l	0.042	0.223	0.102	0 0639	<lod <lo<="" td=""><td></td><td></td><td>0.229</td><td>12</td><td>0.877</td><td>0 902</td><td>0.152</td><td>0.218</td><td>0.05</td><td>0.0879</td><td>0.156</td><td>_</td><td></td><td>_</td><td></td><td></td><td>1.8 <lc< td=""><td>_</td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td></td><td>_</td><td>_</td><td>_</td><td>2.6</td></lc<></td></lod>			0.229	12	0.877	0 902	0.152	0.218	0.05	0.0879	0.156	_		_			1.8 <lc< td=""><td>_</td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td></td><td>_</td><td>_</td><td>_</td><td>2.6</td></lc<>	_	_							_			_	_	_	_	_	_		_	_	_	2.6
Suspended solids, Total	mg/l	<lod< td=""><td></td><td></td><td></td><td><lod <lo<="" td=""><td></td><td>_</td><td></td><td></td><td>15</td><td></td><td></td><td>3</td><td>2</td><td>2</td><td><lod< td=""><td>_</td><td></td><td></td><td></td><td></td><td>714 14</td><td></td><td></td><td>10</td><td></td><td>1 31</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>) 11</td><td></td><td>40</td><td></td><td>31 20</td><td>_</td><td></td><td>2</td></lod<></td></lod></td></lod<>				<lod <lo<="" td=""><td></td><td>_</td><td></td><td></td><td>15</td><td></td><td></td><td>3</td><td>2</td><td>2</td><td><lod< td=""><td>_</td><td></td><td></td><td></td><td></td><td>714 14</td><td></td><td></td><td>10</td><td></td><td>1 31</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>) 11</td><td></td><td>40</td><td></td><td>31 20</td><td>_</td><td></td><td>2</td></lod<></td></lod>		_			15			3	2	2	<lod< td=""><td>_</td><td></td><td></td><td></td><td></td><td>714 14</td><td></td><td></td><td>10</td><td></td><td>1 31</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>) 11</td><td></td><td>40</td><td></td><td>31 20</td><td>_</td><td></td><td>2</td></lod<>	_					714 14			10		1 31) 11		40		31 20	_		2
Sulphate	mg/l	17	37.6	22.8	13.9	69.2 69.	2 22	11.8	24.6	42.3	<lod< td=""><td>110</td><td>25.5</td><td>25.6</td><td>27.3</td><td><lod< td=""><td>21.8</td><td>12</td><td>16 <lc< td=""><td>)D <lo< td=""><td>9 1</td><td>.0 <loi< td=""><td>9 2:</td><td>. 21</td><td>25</td><td>23</td><td>8 <lc< td=""><td>D 8</td><td>36</td><td>47 <lc< td=""><td>D 16</td><td>19</td><td>26 2</td><td>26 25</td><td>26</td><td>5 42</td><td>2 25</td><td>23</td><td>33</td><td>67</td><td>28 !</td><td>55 22</td><td>2 71</td><td>1 40</td><td>14</td></lc<></td></lc<></td></loi<></td></lo<></td></lc<></td></lod<></td></lod<>	110	25.5	25.6	27.3	<lod< td=""><td>21.8</td><td>12</td><td>16 <lc< td=""><td>)D <lo< td=""><td>9 1</td><td>.0 <loi< td=""><td>9 2:</td><td>. 21</td><td>25</td><td>23</td><td>8 <lc< td=""><td>D 8</td><td>36</td><td>47 <lc< td=""><td>D 16</td><td>19</td><td>26 2</td><td>26 25</td><td>26</td><td>5 42</td><td>2 25</td><td>23</td><td>33</td><td>67</td><td>28 !</td><td>55 22</td><td>2 71</td><td>1 40</td><td>14</td></lc<></td></lc<></td></loi<></td></lo<></td></lc<></td></lod<>	21.8	12	16 <lc< td=""><td>)D <lo< td=""><td>9 1</td><td>.0 <loi< td=""><td>9 2:</td><td>. 21</td><td>25</td><td>23</td><td>8 <lc< td=""><td>D 8</td><td>36</td><td>47 <lc< td=""><td>D 16</td><td>19</td><td>26 2</td><td>26 25</td><td>26</td><td>5 42</td><td>2 25</td><td>23</td><td>33</td><td>67</td><td>28 !</td><td>55 22</td><td>2 71</td><td>1 40</td><td>14</td></lc<></td></lc<></td></loi<></td></lo<></td></lc<>)D <lo< td=""><td>9 1</td><td>.0 <loi< td=""><td>9 2:</td><td>. 21</td><td>25</td><td>23</td><td>8 <lc< td=""><td>D 8</td><td>36</td><td>47 <lc< td=""><td>D 16</td><td>19</td><td>26 2</td><td>26 25</td><td>26</td><td>5 42</td><td>2 25</td><td>23</td><td>33</td><td>67</td><td>28 !</td><td>55 22</td><td>2 71</td><td>1 40</td><td>14</td></lc<></td></lc<></td></loi<></td></lo<>	9 1	.0 <loi< td=""><td>9 2:</td><td>. 21</td><td>25</td><td>23</td><td>8 <lc< td=""><td>D 8</td><td>36</td><td>47 <lc< td=""><td>D 16</td><td>19</td><td>26 2</td><td>26 25</td><td>26</td><td>5 42</td><td>2 25</td><td>23</td><td>33</td><td>67</td><td>28 !</td><td>55 22</td><td>2 71</td><td>1 40</td><td>14</td></lc<></td></lc<></td></loi<>	9 2:	. 21	25	23	8 <lc< td=""><td>D 8</td><td>36</td><td>47 <lc< td=""><td>D 16</td><td>19</td><td>26 2</td><td>26 25</td><td>26</td><td>5 42</td><td>2 25</td><td>23</td><td>33</td><td>67</td><td>28 !</td><td>55 22</td><td>2 71</td><td>1 40</td><td>14</td></lc<></td></lc<>	D 8	36	47 <lc< td=""><td>D 16</td><td>19</td><td>26 2</td><td>26 25</td><td>26</td><td>5 42</td><td>2 25</td><td>23</td><td>33</td><td>67</td><td>28 !</td><td>55 22</td><td>2 71</td><td>1 40</td><td>14</td></lc<>	D 16	19	26 2	26 25	26	5 42	2 25	23	33	67	28 !	55 22	2 71	1 40	14
Metals																									\perp							\sqcup	_												
Arsenic	ug/l	0.253		1.32	0.531	0.321 0.45	53	1.88	1.01	5.31		2.52	1.9	2.17	1.13	1.28	0.961	+	\vdash	-	\vdash	_	+	-	+		\vdash	+	-	_	_	\vdash	_	_	+	_	+	_		-	\vdash	_	+-	+	
Boron Cadmium	ug/l ug/l	<i od<="" td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lo<="" td=""><td>D</td><td><i 00<="" td=""><td><lod< td=""><td><lod.< td=""><td><lod.< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod.< td=""><td><lod< td=""><td><lod< td=""><td>nα</td><td><lod 0.<="" td=""><td>5 0.5</td><td>0.7 0</td><td>.6 n.e</td><td>0.5 0.</td><td><10F</td><td>) <lod< td=""><td><lod< td=""><td>0.5 <lc< td=""><td>)D <i od<="" td=""><td><lod <<="" td=""><td>ODKI</td><td>D 15</td><td><lod -<="" td=""><td>LOD <1</td><td>OD 15</td><td>3 410</td><td>)D <10</td><td>)D <1 ∩</td><td>D 1 8</td><td><lod< td=""><td>0.5</td><td><lod (<="" td=""><td>0.6 <10</td><td>)D <10</td><td>OD <lod< td=""><td>1 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Lead	ug/l	0.303				0.248 0.25		<lod< td=""><td></td><td>0.049</td><td>0.026</td><td>0.069</td><td></td><td>0.072</td><td></td><td>0.147</td><td>0.226</td><td>27</td><td><lod 8<="" td=""><td><l00< td=""><td>10 <l< td=""><td>OD 6</td><td><lod 9<="" td=""><td><l00< td=""><td><lod< td=""><td><lod< td=""><td><lod <lo<="" td=""><td>DD 9</td><td><lod <i<="" td=""><td>OD <lc< td=""><td>D <lod< td=""><td><lod <<="" td=""><td>LOD <l< td=""><td>OD 7</td><td><l0< td=""><td>DD <lo< td=""><td>D <lo< td=""><td>D <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <i<="" td=""><td>OD <lc< td=""><td>DD <lo< td=""><td>OD <lod< td=""><td><lod <<="" td=""></lod></td></lod<></td></lo<></td></lc<></td></lod></td></lod<></td></lod<></td></lod<></td></lo<></td></lo<></td></l0<></td></l<></td></lod></td></lod<></td></lc<></td></lod></td></lod></td></lod<></td></lod<></td></l00<></td></lod></td></l<></td></l00<></td></lod></td></lod<>		0.049	0.026	0.069		0.072		0.147	0.226	27	<lod 8<="" td=""><td><l00< 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TPH >C6-C40	ug/l	+					+	+					 	<u> </u>				_	<lod <lo<="" td=""><td>_</td><td></td><td>20 422</td><td>159 <lc< td=""><td>D <lod< td=""><td></td><td><lod< td=""><td></td><td>DD 275</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>.OD <lo< td=""><td>_</td><td>_</td><td>D <lo< td=""><td>_</td><td><lod< td=""><td>_</td><td><lod <i<="" td=""><td>OD <lc< td=""><td>DD 14</td><td>_</td><td><lod< td=""></lod<></td></lc<></td></lod></td></lod<></td></lo<></td></lo<></td></lod<></td></lod<></td></lc<></td></lod>	_		20 422	159 <lc< td=""><td>D <lod< td=""><td></td><td><lod< td=""><td></td><td>DD 275</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>.OD <lo< td=""><td>_</td><td>_</td><td>D <lo< td=""><td>_</td><td><lod< td=""><td>_</td><td><lod <i<="" td=""><td>OD <lc< td=""><td>DD 14</td><td>_</td><td><lod< td=""></lod<></td></lc<></td></lod></td></lod<></td></lo<></td></lo<></td></lod<></td></lod<></td></lc<>	D <lod< td=""><td></td><td><lod< td=""><td></td><td>DD 275</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>.OD <lo< td=""><td>_</td><td>_</td><td>D <lo< td=""><td>_</td><td><lod< td=""><td>_</td><td><lod <i<="" td=""><td>OD <lc< td=""><td>DD 14</td><td>_</td><td><lod< td=""></lod<></td></lc<></td></lod></td></lod<></td></lo<></td></lo<></td></lod<></td></lod<>		<lod< td=""><td></td><td>DD 275</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>.OD <lo< td=""><td>_</td><td>_</td><td>D <lo< td=""><td>_</td><td><lod< td=""><td>_</td><td><lod <i<="" td=""><td>OD <lc< td=""><td>DD 14</td><td>_</td><td><lod< td=""></lod<></td></lc<></td></lod></td></lod<></td></lo<></td></lo<></td></lod<>		DD 275	_	_	_	_	_	.OD <lo< td=""><td>_</td><td>_</td><td>D <lo< td=""><td>_</td><td><lod< td=""><td>_</td><td><lod <i<="" td=""><td>OD <lc< td=""><td>DD 14</td><td>_</td><td><lod< td=""></lod<></td></lc<></td></lod></td></lod<></td></lo<></td></lo<>	_	_	D <lo< td=""><td>_</td><td><lod< td=""><td>_</td><td><lod <i<="" td=""><td>OD <lc< td=""><td>DD 14</td><td>_</td><td><lod< td=""></lod<></td></lc<></td></lod></td></lod<></td></lo<>	_	<lod< td=""><td>_</td><td><lod <i<="" td=""><td>OD <lc< td=""><td>DD 14</td><td>_</td><td><lod< td=""></lod<></td></lc<></td></lod></td></lod<>	_	<lod <i<="" td=""><td>OD <lc< td=""><td>DD 14</td><td>_</td><td><lod< td=""></lod<></td></lc<></td></lod>	OD <lc< td=""><td>DD 14</td><td>_</td><td><lod< td=""></lod<></td></lc<>	DD 14	_	<lod< td=""></lod<>
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Ali >C16-21 Ali >C21-35	ug/I	+	\vdash	\dashv		-+	+	+	1			\vdash				 		+	++	+	\vdash	+	+ +	+	+ +		\vdash	+	-	+	+	\vdash	+	+	+	+	+	+	\vdash	+	\vdash	+	+	+	+
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Aliphatics >C16-C21 (aq)	ug/l		11	<lod< td=""><td><lod< td=""><td><lod <lo<="" td=""><td>D</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>上</td><td></td><td>上</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>上</td><td></td><td>土</td><td></td><td></td><td>士</td><td>╧</td><td></td><td></td><td>┸</td><td></td><td></td><td>L</td><td></td><td>ᆂ</td><td>上</td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod></td></lod<></td></lod<>	<lod< td=""><td><lod <lo<="" td=""><td>D</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< 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1,1,2-Trichloroethane	ug/I	+			\vdash	\vdash	<lc< td=""><td></td><td>++</td><td>+</td><td>+ + -</td><td></td><td>Н</td><td></td><td></td><td>\vdash</td><td>+ +</td><td></td><td>\vdash</td><td>++</td><td>++-</td><td>+</td><td>+++</td><td>+</td><td>+</td><td>+</td><td>-</td><td>\vdash</td><td>\dashv</td><td> </td><td>$\vdash \vdash$</td><td>++</td><td>+ +</td><td>++-</td></lc<>		++	+	+ + -		Н			\vdash	+ +		\vdash	++	++-	+	+++	+	+	+	-	\vdash	\dashv	 	$\vdash \vdash$	++	+ +	++-
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2-Chloronaphthalene (aq)	ug/I	+			\vdash	\vdash	<lc< td=""><td>DD</td><td>++</td><td>+</td><td>+ + -</td><td></td><td>Н</td><td></td><td></td><td>\vdash</td><td>+ +</td><td></td><td>\vdash</td><td>++</td><td>++-</td><td>+</td><td>+++</td><td>+</td><td>+</td><td>+-</td><td>-</td><td>\vdash</td><td>\dashv</td><td> </td><td>$\vdash \vdash$</td><td>++</td><td>+ +</td><td>++-</td></lc<>	DD	++	+	+ + -		Н			\vdash	+ +		\vdash	++	++-	+	+++	+	+	+-	-	\vdash	\dashv	 	$\vdash \vdash$	++	+ +	++-
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4-Chloro-3-methylphenol (aq)	ug/I	+				\vdash	<lc< td=""><td>DD</td><td>+ +</td><td>+</td><td>+ + -</td><td></td><td>Н</td><td></td><td></td><td> </td><td>+ +</td><td></td><td>\vdash</td><td>++</td><td>++-</td><td>+</td><td>+++</td><td>+</td><td>++</td><td>\dashv</td><td>-</td><td>\vdash</td><td>-</td><td>\vdash</td><td>\vdash</td><td>++</td><td>+</td><td>+</td></lc<>	DD	+ +	+	+ + -		Н			 	+ +		\vdash	++	++-	+	+++	+	++	\dashv	-	\vdash	-	\vdash	\vdash	++	+	+
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4-Chloroaniline (aq)	ug/l	\perp				\Box T	<lc< td=""><td>DD</td><td>$+$ \Box</td><td>\perp</td><td>+</td><td></td><td>Щ</td><td></td><td></td><td>\vdash</td><td>\Box</td><td>\perp</td><td>$\vdash \vdash$</td><td>$+$$\mp$</td><td>$\perp$</td><td>$\perp$</td><td>+</td><td>$+$$\Box$</td><td>$+$$\overline{+}$</td><td>$\dashv$</td><td>$\Box$</td><td>$\Box$</td><td></td><td></td><td>\Box</td><td>$+\Gamma$</td><td>$+ \top$</td><td>+</td></lc<>	DD	$+$ \Box	\perp	+		Щ			\vdash	\Box	\perp	$\vdash \vdash$	$+$ \mp	\perp	\perp	+	$+$ \Box	$+$ $\overline{+}$	\dashv	\Box	\Box			\Box	$+\Gamma$	$+ \top$	+
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4-iso-Propyltoluene	ug/l	\perp			\Box	\Box \Box	<lc< td=""><td>DD</td><td>$+ \Gamma$</td><td>\perp</td><td>+</td><td>lacksquare</td><td>Щ</td><td></td><td></td><td>\Box</td><td>$+$$\top$</td><td>$\perp$</td><td>$\vdash \vdash$</td><td>$+$$\mp$</td><td>$+\Gamma$</td><td>$\perp$</td><td>++</td><td>$+$$\Box$</td><td>$+$$\mp$</td><td>$\dashv$</td><td>$\perp$</td><td>$\Box$</td><td></td><td></td><td>$\vdash \vdash$</td><td>$+\Gamma$</td><td>$+$$\top$</td><td>$+$$\Box$</td></lc<>	DD	$+ \Gamma$	\perp	+	lacksquare	Щ			\Box	$+$ \top	\perp	$\vdash \vdash$	$+$ \mp	$+\Gamma$	\perp	++	$+$ \Box	$+$ \mp	\dashv	\perp	\Box			$\vdash \vdash$	$+\Gamma$	$+$ \top	$+$ \Box
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n-Nitroso-n-dipropylamine (aq)	ug/l					止	<lod< td=""><td></td><td></td><td></td><td>士</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>世</td><td></td><td>ユ</td><td></td><td>ユ</td><td></td><td></td><td></td><td>\bot</td><td></td><td></td><td></td><td></td><td>士士</td><td></td></lod<>				士								世		ユ		ユ				\bot					士士	
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Pah,Total Pcb-101 2,2',4,5,5' - Pentachlorobiphenyl	ug/l ug/l	\vdash		\vdash	-+	-+	+	\vdash	+	\dashv	+	+	-	-	\vdash	++	++	\vdash	++	++	+	++	+	++	++	++	+	\vdash	++	\vdash	\dashv	\rightarrow	\dashv
Pcb-101 2,2 ,4,3,3 - Pentachlorobiphenyl	ug/I	L					L		L 			_							_ 						 +						_	=	
Pcb-138 2,2',3,4,4',5' - Hexachlorobiphenyl	ug/l								\Box		\Box						\bot								П		\top	口					\Box
Pcb-153 2,2',4,4',5,5' - Hexachlorobiphenyl	ug/l			\vdash		-	-	$\vdash \vdash$	\vdash	\dashv	+	+-	-	-	$\vdash\vdash$	+	++	\vdash	++	++	+	++	+	++	++	++	+	\vdash	++	$\vdash \vdash \vdash$	\dashv		
Pcb-180 2,2',3,4,4',5,5' - Heptachlorobiphen Pcb-28 2,4,4' - Trichlororbiphenyl	ug/l ug/l	\vdash		+	-+	+	+	\vdash	+	++	-+	+	-	 	\vdash	+ +	++	\vdash	++	++	+	 	+	++	++	++-	+	\vdash	++		\dashv	\rightarrow	\dashv
Pcb-52 2,2',5,5' - Tetrachlorobiphenyl	ug/l												<u> </u>										ᆂ										彐
Pentachlorophenol (aq)	ug/l			\perp \top	二丁	\Box	<lod< td=""><td></td><td>\Box</td><td>\Box</td><td>\Box</td><td></td><td></td><td></td><td>\Box</td><td>$+$ \top</td><td>$+ \Box$</td><td>$\vdash \top$</td><td>$+ \top$</td><td>$+ \top$</td><td>Ţ</td><td>\Box</td><td>Ţ</td><td>$+ \Box \Box$</td><td>$+$ \top</td><td></td><td></td><td>$\vdash \vdash$</td><td></td><td>\Box</td><td>\Box</td><td></td><td>二</td></lod<>		\Box	\Box	\Box				\Box	$+$ \top	$+ \Box$	$\vdash \top$	$+ \top$	$+ \top$	Ţ	\Box	Ţ	$+ \Box \Box$	$+$ \top			$\vdash \vdash$		\Box	\Box		二
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General Parameters																																									
Alkalinity Total Hardness as CaCO3	mg CaCO3/I mg/I	147	267	294	263	107	304	288	378	423	132 10	0 226	204	154	154	232	185	440	500	450	450	320	340	170	320	350	200	190 19	0 150	0 120	1200	590	440	450	580	500	640	530	630	440	320 430
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BOD + ATU (5 day)	mg/l	<lod< td=""><td><lod< td=""><td></td><td><lod< td=""><td>_</td><td><lod< td=""><td>-</td><td>15</td><td>7</td><td><lod 3<="" td=""><td><lod< td=""><td>4</td><td><l0[< td=""><td>2</td><td>2</td><td><lod< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></l0[<></td></lod<></td></lod></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td></td><td><lod< td=""><td>_</td><td><lod< td=""><td>-</td><td>15</td><td>7</td><td><lod 3<="" td=""><td><lod< td=""><td>4</td><td><l0[< td=""><td>2</td><td>2</td><td><lod< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></l0[<></td></lod<></td></lod></td></lod<></td></lod<></td></lod<>		<lod< td=""><td>_</td><td><lod< td=""><td>-</td><td>15</td><td>7</td><td><lod 3<="" td=""><td><lod< td=""><td>4</td><td><l0[< td=""><td>2</td><td>2</td><td><lod< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></l0[<></td></lod<></td></lod></td></lod<></td></lod<>	_	<lod< td=""><td>-</td><td>15</td><td>7</td><td><lod 3<="" td=""><td><lod< td=""><td>4</td><td><l0[< td=""><td>2</td><td>2</td><td><lod< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></l0[<></td></lod<></td></lod></td></lod<>	-	15	7	<lod 3<="" td=""><td><lod< td=""><td>4</td><td><l0[< td=""><td>2</td><td>2</td><td><lod< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></l0[<></td></lod<></td></lod>	<lod< td=""><td>4</td><td><l0[< td=""><td>2</td><td>2</td><td><lod< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></l0[<></td></lod<>	4	<l0[< td=""><td>2</td><td>2</td><td><lod< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></l0[<>	2	2	<lod< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<>								-						-										
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Chloride Conductivity	mg/l uS/cm	28 364		54 670	45 611	13 237	19 666	-	797	25 710	20 7 308 20	_				_		51	85	40	92	120	130	30	36	41	28	21 2	2 23	24	25	49	52	55	210	250	31	31	34	23	39 35
Cyanide	mg/l	30.	017	0,0	- 011	23,	000	3,3	, ,,	710	300 20	0 103	1	3.5	333	1,55	123	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <l<="" td=""><td>DD <lo< td=""><td>D <lo< td=""><td>O<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod -<="" td=""><td><lod <lod<="" td=""></lod></td></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lo<></td></lo<></td></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <l<="" td=""><td>DD <lo< td=""><td>D <lo< td=""><td>O<lod< td=""><td><lod< 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Dissolved oxygen (saturation) Magnesium dissolved as Mg	% mg/l	7.9	_	94.3	94.7	58.7 5.7	88 13	57.9 26	28.4 35	12 33	<lod 80.<="" td=""><td></td><td>_</td><td>72.2</td><td>_</td><td>_</td><td>75.3 16</td><td>-</td><td>-</td><td>-</td><td></td><td>-</td><td></td><td></td><td>-</td><td>-</td><td></td><td>\vdash</td><td>-</td><td>+</td><td>+</td><td>-</td><td>-</td><td>-</td><td>-</td><td>₩</td><td></td><td></td><td>\vdash</td><td></td><td>-</td></lod>		_	72.2	_	_	75.3 16	-	-	-		-			-	-		\vdash	-	+	+	-	-	-	-	₩			\vdash		-
Nitrogen, Total Oxidised as N	mg/l	1.3		3.4	3.1	0.5	1.5	-	_		0.9 <lc< td=""><td>_</td><td>_</td><td>_</td><td></td><td></td><td>_</td><td></td><td>1</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td> </td><td></td><td>+</td><td>+</td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td>\dashv</td></lc<>	_	_	_			_		1			1						 		+	+					1					\dashv
Nitrate as NO3	mg/l	5.8	11.51	15.1	13.733	2.2	6.64			4.873	3.5 <lc< td=""><td></td><td>_</td><td>6 1.3</td><td>4.87</td><td><l0e< td=""><td>3.987</td><td>'</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></l0e<></td></lc<>		_	6 1.3	4.87	<l0e< td=""><td>3.987</td><td>'</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></l0e<>	3.987	'																							
Nitrite as NO2	mg/l	<lod< td=""><td></td><td></td><td></td><td><lod< td=""><td></td><td>-</td><td><lod< td=""><td></td><td><lod <lc<="" td=""><td></td><td>_</td><td></td><td></td><td></td><td></td><td>1 0.5</td><td></td><td>ļ.,</td><td></td><td>l</td><td></td><td></td><td>0.5</td><td></td><td></td><td>0.5</td><td></td><td>1.</td><td>1</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>20 25</td></lod></td></lod<></td></lod<></td></lod<>				<lod< td=""><td></td><td>-</td><td><lod< td=""><td></td><td><lod <lc<="" td=""><td></td><td>_</td><td></td><td></td><td></td><td></td><td>1 0.5</td><td></td><td>ļ.,</td><td></td><td>l</td><td></td><td></td><td>0.5</td><td></td><td></td><td>0.5</td><td></td><td>1.</td><td>1</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>20 25</td></lod></td></lod<></td></lod<>		-	<lod< td=""><td></td><td><lod <lc<="" td=""><td></td><td>_</td><td></td><td></td><td></td><td></td><td>1 0.5</td><td></td><td>ļ.,</td><td></td><td>l</td><td></td><td></td><td>0.5</td><td></td><td></td><td>0.5</td><td></td><td>1.</td><td>1</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>20 25</td></lod></td></lod<>		<lod <lc<="" td=""><td></td><td>_</td><td></td><td></td><td></td><td></td><td>1 0.5</td><td></td><td>ļ.,</td><td></td><td>l</td><td></td><td></td><td>0.5</td><td></td><td></td><td>0.5</td><td></td><td>1.</td><td>1</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>20 25</td></lod>		_					1 0.5		ļ.,		l			0.5			0.5		1.	1			1							20 25
Phosphate, Ortho as P	pH Units mg/l	_	8.1 <lod< td=""><td>8.1</td><td>8.2 <lod< td=""><td>7.7 <lod< td=""><td>7.8</td><td>1.10</td><td>7.6 0.7</td><td>7.2</td><td>7.6 7.4 <lod <lo<="" td=""><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>8.6</td><td>7.7</td><td>8</td><td>8.5</td><td>8.3</td><td>8.1</td><td>8.7</td><td>8.5</td><td>8</td><td>8.6</td><td>8.6 8</td><td>2 12</td><td>12</td><td>12</td><td>8.7</td><td>8.9</td><td>8.6</td><td>8.7</td><td>8.9</td><td>8.9</td><td>8.8</td><td>8.3</td><td>8.9</td><td>8.9 8.5</td></lod></td></lod<></td></lod<></td></lod<>	8.1	8.2 <lod< td=""><td>7.7 <lod< td=""><td>7.8</td><td>1.10</td><td>7.6 0.7</td><td>7.2</td><td>7.6 7.4 <lod <lo<="" td=""><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>8.6</td><td>7.7</td><td>8</td><td>8.5</td><td>8.3</td><td>8.1</td><td>8.7</td><td>8.5</td><td>8</td><td>8.6</td><td>8.6 8</td><td>2 12</td><td>12</td><td>12</td><td>8.7</td><td>8.9</td><td>8.6</td><td>8.7</td><td>8.9</td><td>8.9</td><td>8.8</td><td>8.3</td><td>8.9</td><td>8.9 8.5</td></lod></td></lod<></td></lod<>	7.7 <lod< td=""><td>7.8</td><td>1.10</td><td>7.6 0.7</td><td>7.2</td><td>7.6 7.4 <lod <lo<="" td=""><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>8.6</td><td>7.7</td><td>8</td><td>8.5</td><td>8.3</td><td>8.1</td><td>8.7</td><td>8.5</td><td>8</td><td>8.6</td><td>8.6 8</td><td>2 12</td><td>12</td><td>12</td><td>8.7</td><td>8.9</td><td>8.6</td><td>8.7</td><td>8.9</td><td>8.9</td><td>8.8</td><td>8.3</td><td>8.9</td><td>8.9 8.5</td></lod></td></lod<>	7.8	1.10	7.6 0.7	7.2	7.6 7.4 <lod <lo<="" td=""><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>8.6</td><td>7.7</td><td>8</td><td>8.5</td><td>8.3</td><td>8.1</td><td>8.7</td><td>8.5</td><td>8</td><td>8.6</td><td>8.6 8</td><td>2 12</td><td>12</td><td>12</td><td>8.7</td><td>8.9</td><td>8.6</td><td>8.7</td><td>8.9</td><td>8.9</td><td>8.8</td><td>8.3</td><td>8.9</td><td>8.9 8.5</td></lod>	_	_	_	_	_	_	8.6	7.7	8	8.5	8.3	8.1	8.7	8.5	8	8.6	8.6 8	2 12	12	12	8.7	8.9	8.6	8.7	8.9	8.9	8.8	8.3	8.9	8.9 8.5
Suspended solids, Total	mg/l	28	14	13	23	3	16	12	70	108	17 48		17		_	6	5					1							_	+	1		1	 							-
Sulphate	mg/l	13	16	14	14	10	19	27	14	26	30 <lc< td=""><td>D 84</td><td>70</td><td>36</td><td>33</td><td>84</td><td>68</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lc<>	D 84	70	36	33	84	68																								
Metals	. 0	-										-	-			+	-	1	1.0						1.5	100	4.0	100		+	١.,		1	1	1.0				4.0	2.5	25 45
Arsenic Boron	ug/l ug/l	1						\vdash						+		+	+	3.5 990			4.2 1200		2	1.4		<lod 69</lod 		<lod <l<br="">990 2</lod>										_	1.2		2.6 1.5 200 50
Cadmium	ug/l	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.7</td><td>0.6</td><td>0.5</td><td>2.3</td><td><lod< td=""><td>1.7 <lc< td=""><td>D <lod< td=""><td><loi< td=""><td>) <lo[< td=""><td><lod< td=""><td><l0[< td=""><td><lod< td=""><td></td><td>_</td><td>1.6</td><td>0.098</td><td>_</td><td>_</td><td>0.2</td><td><lod< td=""><td><lod< td=""><td>_</td><td><lod <l<="" td=""><td>_</td><td>_</td><td>D <lod< td=""><td>_</td><td>_</td><td>_</td><td><lod< td=""><td><lod< td=""><td>_</td><td><lod< td=""><td>-</td><td>_</td><td><lod <lod<="" td=""></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod></td></lod<></td></lod<></td></lod<></td></l0[<></td></lod<></td></lo[<></td></loi<></td></lod<></td></lc<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>0.7</td><td>0.6</td><td>0.5</td><td>2.3</td><td><lod< td=""><td>1.7 <lc< td=""><td>D <lod< td=""><td><loi< td=""><td>) <lo[< td=""><td><lod< 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Zinc BTEX COMPOUNDS	ug/l	19	6	16	<lod< td=""><td>17</td><td>25</td><td>28</td><td>20</td><td>49</td><td>35 23</td><td>11</td><td>37</td><td>22</td><td>17</td><td>11</td><td>18</td><td>28</td><td>2.5</td><td>2.8</td><td>21</td><td>6.4</td><td>2.7</td><td>8.1</td><td>3.7</td><td>1.5</td><td>9.8</td><td>1.9 1</td><td>6 4.2</td><td>8.2</td><td>2.7</td><td>6.1</td><td>8.3</td><td>4.3</td><td>3.4</td><td>1.8</td><td>3</td><td>2.2</td><td>1.6</td><td>4.9</td><td>6 1.3</td></lod<>	17	25	28	20	49	35 23	11	37	22	17	11	18	28	2.5	2.8	21	6.4	2.7	8.1	3.7	1.5	9.8	1.9 1	6 4.2	8.2	2.7	6.1	8.3	4.3	3.4	1.8	3	2.2	1.6	4.9	6 1.3
Sum of detected BTEX	ug/l											+	+	_		+	+					 							+	+	+		 	_		1				_	
Benzene	ug/l																	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <l<="" td=""><td>DD <lo< td=""><td>D <lo< td=""><td>0 <lo< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod<="" td=""></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lo<></td></lo<></td></lo<></td></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <l<="" td=""><td>DD <lo< td=""><td>D <lo< td=""><td>0 <lo< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< 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TPH >C6-C40	ug/l		<lod< td=""><td></td><td><lod< td=""><td></td><td></td><td><lod< td=""><td></td><td></td><td><lod 69<="" td=""><td></td><td></td><td>) <lo[< td=""><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lo[<></td></lod></td></lod<></td></lod<></td></lod<>		<lod< td=""><td></td><td></td><td><lod< td=""><td></td><td></td><td><lod 69<="" td=""><td></td><td></td><td>) <lo[< td=""><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lo[<></td></lod></td></lod<></td></lod<>			<lod< td=""><td></td><td></td><td><lod 69<="" td=""><td></td><td></td><td>) <lo[< td=""><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lo[<></td></lod></td></lod<>			<lod 69<="" td=""><td></td><td></td><td>) <lo[< td=""><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lo[<></td></lod>) <lo[< td=""><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lo[<>		_																									
TPH >C6-C8	ug/l	_	<lod< td=""><td></td><td><lod< td=""><td><lod< td=""><td></td><td><lod td="" ·<=""><td></td><td></td><td></td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod></td></lod<></td></lod<></td></lod<>		<lod< td=""><td><lod< td=""><td></td><td><lod td="" ·<=""><td></td><td></td><td></td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod></td></lod<></td></lod<>	<lod< td=""><td></td><td><lod td="" ·<=""><td></td><td></td><td></td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod></td></lod<>		<lod td="" ·<=""><td></td><td></td><td></td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod>				_	_	_	_	_	_																								
TPH >C8-C10 Total Aliphatic TPH	ug/l ug/l	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod td="" ·<=""><td><lod< td=""><td><lod< td=""><td><lod <lo<="" td=""><td>D <lod< td=""><td> <lo[< td=""><td>) <lo[< td=""><td><lod< td=""><td>) <loe< td=""><td><lod< td=""><td><i od<="" td=""><td><i od<="" td=""><td>I OD</td><td><i od<="" td=""><td><i of<="" td=""><td></td><td><i od<="" td=""><td><i.od< td=""><td><i.od< td=""><td><i.od< td=""><td><i <i<="" od="" td=""><td>חו בוח</td><td>0 40</td><td></td><td>) <iod< td=""><td><i od<="" td=""><td>-LOD</td><td><i.od< td=""><td><i od<="" td=""><td><i od<="" td=""><td><i od<="" td=""><td><i od<="" td=""><td><i.od< td=""><td><lod <lod<="" 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Total Aromatics >EC12-EC35 (aq)	ug/l	₩						\sqcup				-	1	+-	<u> </u>	+-	1	100	100	1.00	100			100			100					100	1.00	1.00		100	100	100	100		100 100
Aromatic hydrocarbons Ali >C10-12	ug/l ug/l	\vdash						\vdash					-	+		+		<lod <lod< td=""><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td><lod< td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td><lod <lod<="" td=""><td></td><td><lod <lod< td=""><td></td><td><lod< td=""><td><lod <lod< td=""><td></td><td>_</td><td>_</td><td><lod <lod<="" td=""></lod></td></lod<></lod </td></lod<></td></lod<></lod </td></lod></td></lod<></td></lod></td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td><lod <lod< td=""><td></td><td></td><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td><lod< td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td><lod <lod<="" td=""><td></td><td><lod <lod< td=""><td></td><td><lod< td=""><td><lod <lod< td=""><td></td><td>_</td><td>_</td><td><lod <lod<="" td=""></lod></td></lod<></lod </td></lod<></td></lod<></lod </td></lod></td></lod<></td></lod></td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td></td><td></td><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td><lod< td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td><lod <lod<="" td=""><td></td><td><lod <lod< td=""><td></td><td><lod< td=""><td><lod <lod< td=""><td></td><td>_</td><td>_</td><td><lod <lod<="" td=""></lod></td></lod<></lod </td></lod<></td></lod<></lod </td></lod></td></lod<></td></lod></td></lod<></td></lod<></lod </td></lod<></lod </td></lod<></lod 			<lod <lod< td=""><td><lod <lod< td=""><td></td><td><lod< td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td><lod <lod<="" td=""><td></td><td><lod <lod< td=""><td></td><td><lod< td=""><td><lod <lod< td=""><td></td><td>_</td><td>_</td><td><lod <lod<="" td=""></lod></td></lod<></lod </td></lod<></td></lod<></lod </td></lod></td></lod<></td></lod></td></lod<></td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td></td><td><lod< td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td><lod <lod<="" td=""><td></td><td><lod <lod< td=""><td></td><td><lod< td=""><td><lod <lod< td=""><td></td><td>_</td><td>_</td><td><lod <lod<="" td=""></lod></td></lod<></lod </td></lod<></td></lod<></lod </td></lod></td></lod<></td></lod></td></lod<></td></lod<></lod 		<lod< td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td><lod <lod<="" td=""><td></td><td><lod <lod< td=""><td></td><td><lod< td=""><td><lod <lod< td=""><td></td><td>_</td><td>_</td><td><lod <lod<="" td=""></lod></td></lod<></lod </td></lod<></td></lod<></lod </td></lod></td></lod<></td></lod></td></lod<>		<lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td><lod <lod<="" td=""><td></td><td><lod <lod< td=""><td></td><td><lod< td=""><td><lod <lod< td=""><td></td><td>_</td><td>_</td><td><lod <lod<="" td=""></lod></td></lod<></lod </td></lod<></td></lod<></lod </td></lod></td></lod<></td></lod>			0 <lod< td=""><td><lod <lod<="" td=""><td></td><td><lod <lod< td=""><td></td><td><lod< td=""><td><lod <lod< td=""><td></td><td>_</td><td>_</td><td><lod <lod<="" td=""></lod></td></lod<></lod </td></lod<></td></lod<></lod </td></lod></td></lod<>	<lod <lod<="" td=""><td></td><td><lod <lod< td=""><td></td><td><lod< td=""><td><lod <lod< td=""><td></td><td>_</td><td>_</td><td><lod <lod<="" td=""></lod></td></lod<></lod </td></lod<></td></lod<></lod </td></lod>		<lod <lod< td=""><td></td><td><lod< td=""><td><lod <lod< td=""><td></td><td>_</td><td>_</td><td><lod <lod<="" td=""></lod></td></lod<></lod </td></lod<></td></lod<></lod 		<lod< td=""><td><lod <lod< td=""><td></td><td>_</td><td>_</td><td><lod <lod<="" td=""></lod></td></lod<></lod </td></lod<>	<lod <lod< td=""><td></td><td>_</td><td>_</td><td><lod <lod<="" td=""></lod></td></lod<></lod 		_	_	<lod <lod<="" td=""></lod>
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Ali >C16-21	ug/l																	<lod< td=""><td></td><td><lod< td=""><td></td><td></td><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td></td><td>D <l0< td=""><td></td><td></td><td></td><td></td><td></td><td><lod< td=""><td></td><td></td><td>_</td><td></td><td><lod <lod<="" td=""></lod></td></lod<></td></l0<></td></lod<></td></lod<></td></lod<></td></lod<>		<lod< td=""><td></td><td></td><td><lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td></td><td>D <l0< td=""><td></td><td></td><td></td><td></td><td></td><td><lod< td=""><td></td><td></td><td>_</td><td></td><td><lod <lod<="" td=""></lod></td></lod<></td></l0<></td></lod<></td></lod<></td></lod<>			<lod< td=""><td><lod< td=""><td></td><td></td><td></td><td></td><td></td><td>D <l0< td=""><td></td><td></td><td></td><td></td><td></td><td><lod< td=""><td></td><td></td><td>_</td><td></td><td><lod <lod<="" td=""></lod></td></lod<></td></l0<></td></lod<></td></lod<>	<lod< td=""><td></td><td></td><td></td><td></td><td></td><td>D <l0< td=""><td></td><td></td><td></td><td></td><td></td><td><lod< td=""><td></td><td></td><td>_</td><td></td><td><lod <lod<="" td=""></lod></td></lod<></td></l0<></td></lod<>						D <l0< td=""><td></td><td></td><td></td><td></td><td></td><td><lod< td=""><td></td><td></td><td>_</td><td></td><td><lod <lod<="" td=""></lod></td></lod<></td></l0<>						<lod< td=""><td></td><td></td><td>_</td><td></td><td><lod <lod<="" td=""></lod></td></lod<>			_		<lod <lod<="" td=""></lod>
Ali >C21-35 Ali >C35-44	ug/l ug/l	+				\vdash		\vdash	_		+	-	\vdash	+	 	+	1	<lod< td=""><td></td><td><lod< td=""><td></td><td></td><td><lod< td=""><td></td><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td></td><td><lod <lod<="" td=""><td></td><td><lod <lod< td=""><td></td><td></td><td><lod <lod< td=""><td></td><td></td><td></td><td><lod <lod<="" td=""></lod></td></lod<></lod </td></lod<></lod </td></lod></td></lod></td></lod<></lod </td></lod<></lod </td></lod<></td></lod<></td></lod<>		<lod< td=""><td></td><td></td><td><lod< td=""><td></td><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td></td><td><lod <lod<="" td=""><td></td><td><lod <lod< td=""><td></td><td></td><td><lod <lod< td=""><td></td><td></td><td></td><td><lod <lod<="" td=""></lod></td></lod<></lod </td></lod<></lod </td></lod></td></lod></td></lod<></lod </td></lod<></lod </td></lod<></td></lod<>			<lod< td=""><td></td><td><lod <lod< td=""><td><lod <lod< td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td></td><td><lod <lod<="" td=""><td></td><td><lod <lod< td=""><td></td><td></td><td><lod <lod< td=""><td></td><td></td><td></td><td><lod <lod<="" td=""></lod></td></lod<></lod </td></lod<></lod </td></lod></td></lod></td></lod<></lod </td></lod<></lod </td></lod<>		<lod <lod< td=""><td><lod <lod< td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td></td><td><lod <lod<="" td=""><td></td><td><lod <lod< td=""><td></td><td></td><td><lod <lod< td=""><td></td><td></td><td></td><td><lod <lod<="" td=""></lod></td></lod<></lod </td></lod<></lod </td></lod></td></lod></td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td></td><td><lod <lod<="" td=""><td></td><td><lod <lod< td=""><td></td><td></td><td><lod <lod< td=""><td></td><td></td><td></td><td><lod <lod<="" td=""></lod></td></lod<></lod </td></lod<></lod </td></lod></td></lod></td></lod<></lod 		<lod <l<="" td=""><td></td><td></td><td></td><td><lod <lod<="" td=""><td></td><td><lod <lod< td=""><td></td><td></td><td><lod <lod< td=""><td></td><td></td><td></td><td><lod <lod<="" td=""></lod></td></lod<></lod </td></lod<></lod </td></lod></td></lod>				<lod <lod<="" td=""><td></td><td><lod <lod< td=""><td></td><td></td><td><lod <lod< td=""><td></td><td></td><td></td><td><lod <lod<="" td=""></lod></td></lod<></lod </td></lod<></lod </td></lod>		<lod <lod< td=""><td></td><td></td><td><lod <lod< td=""><td></td><td></td><td></td><td><lod <lod<="" td=""></lod></td></lod<></lod </td></lod<></lod 			<lod <lod< td=""><td></td><td></td><td></td><td><lod <lod<="" td=""></lod></td></lod<></lod 				<lod <lod<="" td=""></lod>
Ali >C5-6	ug/l	\vdash						\vdash	\dashv		\vdash	+	\vdash	+	\vdash	+	\vdash	<lod< td=""><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td></td><td>_</td><td>_</td><td>_</td><td></td><td></td><td></td><td></td><td></td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td></td><td></td><td><lod <lod<="" td=""></lod></td></lod<>	_	_	_	_	_		_	_	_						_	_	_	_	_	_			<lod <lod<="" td=""></lod>
Ali >C6-8	ug/l																	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <l<="" td=""><td>OD <lo< td=""><td>D <lo< td=""><td>O<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod -<="" td=""><td><lod <lod<="" td=""></lod></td></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lo<></td></lo<></td></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <l<="" td=""><td>OD <lo< td=""><td>D <lo< td=""><td>O<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< 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PAH, Total Detected USEPA 16 (aq)	ug/l																																						工	
Chrysene (aq)	ug/l	-	<u> </u>					\vdash		_				\vdash	_							Ш							_		_		-		Ш			+-	+	—
Fluoranthene (aq) Pyrene (aq)	ug/l ug/l	1	1					\vdash	\dashv	\dashv	+			\vdash	-	-						Н			H				1		-	+	1		Н			+	+	+
Benzo(a)anthracene (aq)	ug/l																																						工	
Phenanthrene (aq)	ug/l	-						\vdash	_	_	_			\vdash	_	_	_					Ш								\vdash	_		-		Ш		\vdash	4	—	—
Acenaphthene (aq) Acenaphthylene (aq)	ug/l ug/l	+						\vdash	\dashv	\dashv	_			\vdash	\dashv	\dashv						H								\vdash	+	+			Н			+	+	+
Benzo(a)pyrene (aq)	ug/l																																						士	
Benzo(b)fluoranthene (aq)	ug/l																					Ш																	\perp	
Benzo(g,h,i)perylene (aq) Fluorene (aq)	ug/l ug/l	+						\vdash	+	\dashv	-			\vdash	-	-+	-					\vdash			H			\vdash	-	\vdash	-	+	-		Н		\vdash	+	+	+
Indeno(1,2,3-cd)pyrene (aq)	ug/l	1								_												Н			H										Н			+	+	+
Naphthalene (aq)	ug/l																																						ユ	
Phenois	mg/l %	-						\vdash	_	_				\vdash	_	_		<lod< td=""><td>0.29</td><td>0.03</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lo<="" td=""><td><lod< td=""><td><lod <i<="" td=""><td>OD <l0[< td=""><td>) <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <l0<="" td=""><td>D <lc< td=""><td>D < LC</td><td>DOI-LOD</td></lc<></td></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></l0[<></td></lod></td></lod<></td></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	0.29	0.03	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lo<="" td=""><td><lod< td=""><td><lod <i<="" td=""><td>OD <l0[< td=""><td>) <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <l0<="" td=""><td>D <lc< td=""><td>D < 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4-Bromofluorobenzene** Anthracene (aq)	ug/l	1	1					\vdash	\dashv	\dashv	+			\vdash	_	-						Н			H				1		-	+	1		Н			+	+	+
Benzo(k)fluoranthene (aq)	ug/l																																						士	
Dibenzo(a,h)anthracene (aq)	ug/l		<u> </u>					\sqcup		_				\sqcup								Ш								\sqcup					Ш		\vdash		_	
Dibromofluoromethane** Isophorone (aq)	% ug/l	\vdash						\vdash		-				\vdash	-	_						Н							-	\vdash	-	+			Н			+-	+	+
1,1,1,2-Tetrachloroethane	ug/l	1								_								<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lo<="" td=""><td><lod< td=""><td><lod <i<="" td=""><td>OD <loi< td=""><td>) <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <l0<="" td=""><td>D <lc< td=""><td>OD <lc< td=""><td>OD <lod< td=""></lod<></td></lc<></td></lc<></td></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loi<></td></lod></td></lod<></td></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lo<="" td=""><td><lod< td=""><td><lod <i<="" td=""><td>OD <loi< td=""><td>) <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< 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1,2,4-Trichlorobenzene (aq) 1,2,4-Trimethylbenzene	ug/l ug/l	\vdash	<u> </u>	\vdash	<u> </u>	\vdash		\vdash	+	_	_	+		\vdash		-		<lod.< td=""><td><1.00</td><td><1.0°</td><td>/I OF</td><td>4100</td><td><100</td><td>/ION</td><td>400</td><td>4100</td><td>2100</td><td><100 ± 0</td><td>2100</td><td>100 -</td><td>00 440</td><td>1 // 00</td><td>100</td><td>/100</td><td>100</td><td><100</td><td><100 -1 *</td><td>nn</td><td>20 1-14</td><td>20/4/22</td></lod.<>	<1.00	<1.0°	/I OF	4100	<100	/ION	400	4100	2100	<100 ± 0	2100	100 -	00 440	1 // 00	100	/100	100	<100	<100 -1 *	nn	20 1-14	20/4/22
1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane	ug/l ug/l	+	 	H	 	\vdash		\vdash	+	\dashv	+	+		\vdash	\dashv	\dashv	\dashv	<lod< td=""><td><lod <lod< td=""><td></td><td><lod <lod< td=""><td><lod <lod< td=""><td>_</td><td><lod <lod< td=""><td>_</td><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lo<="" td=""><td></td><td><lod <i<="" td=""><td></td><td>_</td><td>_</td><td><lod <lod< td=""><td>_</td><td><lod <lod< td=""><td><lod <l0<="" td=""><td>_</td><td></td><td>OD <lod< td=""></lod<></td></lod></td></lod<></lod </td></lod<></lod </td></lod></td></lod></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<>	<lod <lod< td=""><td></td><td><lod <lod< td=""><td><lod <lod< td=""><td>_</td><td><lod <lod< td=""><td>_</td><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lo<="" td=""><td></td><td><lod <i<="" td=""><td></td><td>_</td><td>_</td><td><lod <lod< td=""><td>_</td><td><lod <lod< td=""><td><lod <l0<="" td=""><td>_</td><td></td><td>OD <lod< td=""></lod<></td></lod></td></lod<></lod </td></lod<></lod </td></lod></td></lod></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod 		<lod <lod< td=""><td><lod <lod< td=""><td>_</td><td><lod <lod< td=""><td>_</td><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lo<="" td=""><td></td><td><lod <i<="" td=""><td></td><td>_</td><td>_</td><td><lod <lod< td=""><td>_</td><td><lod <lod< td=""><td><lod <l0<="" td=""><td>_</td><td></td><td>OD <lod< td=""></lod<></td></lod></td></lod<></lod </td></lod<></lod </td></lod></td></lod></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td>_</td><td><lod <lod< td=""><td>_</td><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lo<="" td=""><td></td><td><lod <i<="" td=""><td></td><td>_</td><td>_</td><td><lod <lod< td=""><td>_</td><td><lod <lod< td=""><td><lod <l0<="" td=""><td>_</td><td></td><td>OD <lod< td=""></lod<></td></lod></td></lod<></lod </td></lod<></lod </td></lod></td></lod></td></lod<></lod </td></lod<></lod </td></lod<></lod </td></lod<></lod 	_	<lod <lod< td=""><td>_</td><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <lo<="" td=""><td></td><td><lod <i<="" td=""><td></td><td>_</td><td>_</td><td><lod <lod< td=""><td>_</td><td><lod <lod< td=""><td><lod <l0<="" td=""><td>_</td><td></td><td>OD <lod< td=""></lod<></td></lod></td></lod<></lod </td></lod<></lod </td></lod></td></lod></td></lod<></lod </td></lod<></lod </td></lod<></lod 	_	<lod <lod< td=""><td><lod <lod< td=""><td><lod <lo<="" td=""><td></td><td><lod <i<="" td=""><td></td><td>_</td><td>_</td><td><lod <lod< td=""><td>_</td><td><lod <lod< td=""><td><lod <l0<="" td=""><td>_</td><td></td><td>OD <lod< td=""></lod<></td></lod></td></lod<></lod </td></lod<></lod </td></lod></td></lod></td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td><lod <lo<="" td=""><td></td><td><lod <i<="" td=""><td></td><td>_</td><td>_</td><td><lod <lod< td=""><td>_</td><td><lod <lod< td=""><td><lod <l0<="" td=""><td>_</td><td></td><td>OD <lod< td=""></lod<></td></lod></td></lod<></lod </td></lod<></lod </td></lod></td></lod></td></lod<></lod 	<lod <lo<="" td=""><td></td><td><lod <i<="" td=""><td></td><td>_</td><td>_</td><td><lod <lod< td=""><td>_</td><td><lod <lod< td=""><td><lod <l0<="" td=""><td>_</td><td></td><td>OD <lod< td=""></lod<></td></lod></td></lod<></lod </td></lod<></lod </td></lod></td></lod>		<lod <i<="" td=""><td></td><td>_</td><td>_</td><td><lod <lod< td=""><td>_</td><td><lod <lod< td=""><td><lod <l0<="" td=""><td>_</td><td></td><td>OD <lod< td=""></lod<></td></lod></td></lod<></lod </td></lod<></lod </td></lod>		_	_	<lod <lod< td=""><td>_</td><td><lod <lod< td=""><td><lod <l0<="" td=""><td>_</td><td></td><td>OD <lod< td=""></lod<></td></lod></td></lod<></lod </td></lod<></lod 	_	<lod <lod< td=""><td><lod <l0<="" td=""><td>_</td><td></td><td>OD <lod< td=""></lod<></td></lod></td></lod<></lod 	<lod <l0<="" td=""><td>_</td><td></td><td>OD <lod< td=""></lod<></td></lod>	_		OD <lod< td=""></lod<>
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1,3,5-Trimethylbenzene	ug/l	-						\vdash	_	_				\vdash	_	_			<lod< td=""><td></td><td></td><td><lod< td=""><td></td><td><lod< td=""><td><lod< td=""><td></td><td></td><td><lod <lo<="" td=""><td></td><td><lod <i<="" td=""><td></td><td>) <lod< td=""><td></td><td></td><td></td><td></td><td><lod <l0<="" td=""><td></td><td></td><td>OD <lod< td=""></lod<></td></lod></td></lod<></td></lod></td></lod></td></lod<></td></lod<></td></lod<></td></lod<>			<lod< td=""><td></td><td><lod< td=""><td><lod< td=""><td></td><td></td><td><lod <lo<="" td=""><td></td><td><lod <i<="" td=""><td></td><td>) <lod< td=""><td></td><td></td><td></td><td></td><td><lod <l0<="" td=""><td></td><td></td><td>OD <lod< td=""></lod<></td></lod></td></lod<></td></lod></td></lod></td></lod<></td></lod<></td></lod<>		<lod< td=""><td><lod< td=""><td></td><td></td><td><lod <lo<="" td=""><td></td><td><lod <i<="" td=""><td></td><td>) <lod< td=""><td></td><td></td><td></td><td></td><td><lod <l0<="" td=""><td></td><td></td><td>OD <lod< td=""></lod<></td></lod></td></lod<></td></lod></td></lod></td></lod<></td></lod<>	<lod< td=""><td></td><td></td><td><lod <lo<="" td=""><td></td><td><lod <i<="" td=""><td></td><td>) <lod< td=""><td></td><td></td><td></td><td></td><td><lod <l0<="" td=""><td></td><td></td><td>OD <lod< td=""></lod<></td></lod></td></lod<></td></lod></td></lod></td></lod<>			<lod <lo<="" td=""><td></td><td><lod <i<="" td=""><td></td><td>) <lod< td=""><td></td><td></td><td></td><td></td><td><lod <l0<="" td=""><td></td><td></td><td>OD <lod< td=""></lod<></td></lod></td></lod<></td></lod></td></lod>		<lod <i<="" td=""><td></td><td>) <lod< td=""><td></td><td></td><td></td><td></td><td><lod <l0<="" td=""><td></td><td></td><td>OD <lod< td=""></lod<></td></lod></td></lod<></td></lod>) <lod< td=""><td></td><td></td><td></td><td></td><td><lod <l0<="" td=""><td></td><td></td><td>OD <lod< td=""></lod<></td></lod></td></lod<>					<lod <l0<="" td=""><td></td><td></td><td>OD <lod< td=""></lod<></td></lod>			OD <lod< td=""></lod<>
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1,4-Dichlorobenzene (aq) 2,2-Dichloropropane	ug/l ug/l	\vdash						\vdash		-				\vdash	-	_						Н							-	\vdash	-	+			Н			+-	+	+
2,4,5-Trichlorophenol	ug/l	1								_								<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lo<="" td=""><td><lod< td=""><td><lod <i<="" td=""><td>OD <loi< td=""><td>) <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <l0<="" td=""><td>D <lc< td=""><td>OD <lc< td=""><td>OD <lod< td=""></lod<></td></lc<></td></lc<></td></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loi<></td></lod></td></lod<></td></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lo<="" td=""><td><lod< td=""><td><lod <i<="" td=""><td>OD <loi< td=""><td>) <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< 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4-Chlorophenyl Phenyl Ether 4-Chlorophenylphenylether (aq)	ug/l ug/l	+	 		-	\vdash		$\vdash \vdash$	+	+	+	+		\vdash	\dashv	+	-	<lod< td=""><td><lod< td=""><td><lud< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lo<="" td=""><td>/ <lod< td=""><td><lod < < td=""><td>υν <Γ0[</td><td>/ <lod< td=""><td>/ <lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lud <l0<="" td=""><td>νυ <lc< td=""><td>יט <רט</td><td>יוח<ר00</td></lc<></td></lud></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod < <></td></lod<></td></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lud<></td></lod<></td></lod<>	<lod< td=""><td><lud< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lo<="" td=""><td>/ <lod< td=""><td><lod < < td=""><td>υν <Γ0[</td><td>/ <lod< td=""><td>/ <lod< 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Azobenzene (aq)	ug/l																								1												
Benzo (g,h,i) perylene Benzo(a)anthracene	ug/l ug/l	1					+	-	-	+	_			\vdash				D <loi< td=""><td></td><td></td><td><lod <lod< td=""><td><lod <lod< td=""><td><lod <loi<="" td=""><td></td><td><lod <lo<="" td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td><lod <lod< td=""><td>_</td><td></td><td>LOD <lo< td=""><td></td><td>_</td><td>D <lod< td=""></lod<></td></lo<></td></lod<></lod </td></lod<></td></lod></td></lod></td></lod></td></lod<></lod </td></lod<></lod </td></loi<>			<lod <lod< td=""><td><lod <lod< td=""><td><lod <loi<="" td=""><td></td><td><lod <lo<="" td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td><lod <lod< td=""><td>_</td><td></td><td>LOD <lo< td=""><td></td><td>_</td><td>D <lod< td=""></lod<></td></lo<></td></lod<></lod </td></lod<></td></lod></td></lod></td></lod></td></lod<></lod </td></lod<></lod 	<lod <lod< td=""><td><lod <loi<="" td=""><td></td><td><lod <lo<="" td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td><lod <lod< td=""><td>_</td><td></td><td>LOD <lo< td=""><td></td><td>_</td><td>D <lod< td=""></lod<></td></lo<></td></lod<></lod </td></lod<></td></lod></td></lod></td></lod></td></lod<></lod 	<lod <loi<="" td=""><td></td><td><lod <lo<="" td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td><lod <lod< td=""><td>_</td><td></td><td>LOD <lo< td=""><td></td><td>_</td><td>D <lod< td=""></lod<></td></lo<></td></lod<></lod </td></lod<></td></lod></td></lod></td></lod>		<lod <lo<="" td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td><lod <lod< td=""><td>_</td><td></td><td>LOD <lo< td=""><td></td><td>_</td><td>D <lod< td=""></lod<></td></lo<></td></lod<></lod </td></lod<></td></lod></td></lod>		<lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td><lod <lod< td=""><td>_</td><td></td><td>LOD <lo< td=""><td></td><td>_</td><td>D <lod< td=""></lod<></td></lo<></td></lod<></lod </td></lod<></td></lod>			0 <lod< td=""><td><lod <lod< td=""><td>_</td><td></td><td>LOD <lo< td=""><td></td><td>_</td><td>D <lod< td=""></lod<></td></lo<></td></lod<></lod </td></lod<>	<lod <lod< td=""><td>_</td><td></td><td>LOD <lo< td=""><td></td><td>_</td><td>D <lod< td=""></lod<></td></lo<></td></lod<></lod 	_		LOD <lo< td=""><td></td><td>_</td><td>D <lod< td=""></lod<></td></lo<>		_	D <lod< td=""></lod<>
Benzo(a)pyrene	ug/l	\Box	\dashv	_		\dashv	+	+	+	\vdash	\dashv	+		H				D <loi< td=""><td>_</td><td>_</td><td><lod< td=""><td><lod <lod< td=""><td><lod <loi<="" td=""><td>_</td><td></td><td>_</td><td>_</td><td></td><td></td><td>_</td><td><lod< td=""><td>_</td><td></td><td>LOD <lo< td=""><td>_</td><td></td><td>D <lod< td=""></lod<></td></lo<></td></lod<></td></lod></td></lod<></lod </td></lod<></td></loi<>	_	_	<lod< td=""><td><lod <lod< td=""><td><lod <loi<="" td=""><td>_</td><td></td><td>_</td><td>_</td><td></td><td></td><td>_</td><td><lod< td=""><td>_</td><td></td><td>LOD <lo< td=""><td>_</td><td></td><td>D <lod< td=""></lod<></td></lo<></td></lod<></td></lod></td></lod<></lod </td></lod<>	<lod <lod< td=""><td><lod <loi<="" td=""><td>_</td><td></td><td>_</td><td>_</td><td></td><td></td><td>_</td><td><lod< td=""><td>_</td><td></td><td>LOD <lo< td=""><td>_</td><td></td><td>D <lod< td=""></lod<></td></lo<></td></lod<></td></lod></td></lod<></lod 	<lod <loi<="" td=""><td>_</td><td></td><td>_</td><td>_</td><td></td><td></td><td>_</td><td><lod< td=""><td>_</td><td></td><td>LOD <lo< td=""><td>_</td><td></td><td>D <lod< td=""></lod<></td></lo<></td></lod<></td></lod>	_		_	_			_	<lod< td=""><td>_</td><td></td><td>LOD <lo< td=""><td>_</td><td></td><td>D <lod< td=""></lod<></td></lo<></td></lod<>	_		LOD <lo< td=""><td>_</td><td></td><td>D <lod< td=""></lod<></td></lo<>	_		D <lod< td=""></lod<>
Benzo(b)fluoranthene	ug/l																	D <loi< td=""><td></td><td></td><td><lod< td=""><td><lod< td=""><td><lod <loi<="" td=""><td>_</td><td><lod <lo<="" td=""><td>_</td><td><lod <l<="" td=""><td></td><td></td><td><lod< td=""><td><lod< td=""><td></td><td></td><td>LOD <l0< td=""><td></td><td></td><td>D <lod< td=""></lod<></td></l0<></td></lod<></td></lod<></td></lod></td></lod></td></lod></td></lod<></td></lod<></td></loi<>			<lod< td=""><td><lod< td=""><td><lod <loi<="" td=""><td>_</td><td><lod <lo<="" td=""><td>_</td><td><lod <l<="" td=""><td></td><td></td><td><lod< td=""><td><lod< td=""><td></td><td></td><td>LOD <l0< td=""><td></td><td></td><td>D <lod< td=""></lod<></td></l0<></td></lod<></td></lod<></td></lod></td></lod></td></lod></td></lod<></td></lod<>	<lod< td=""><td><lod <loi<="" td=""><td>_</td><td><lod <lo<="" td=""><td>_</td><td><lod <l<="" td=""><td></td><td></td><td><lod< td=""><td><lod< td=""><td></td><td></td><td>LOD <l0< td=""><td></td><td></td><td>D <lod< td=""></lod<></td></l0<></td></lod<></td></lod<></td></lod></td></lod></td></lod></td></lod<>	<lod <loi<="" td=""><td>_</td><td><lod <lo<="" td=""><td>_</td><td><lod <l<="" td=""><td></td><td></td><td><lod< td=""><td><lod< td=""><td></td><td></td><td>LOD <l0< td=""><td></td><td></td><td>D <lod< td=""></lod<></td></l0<></td></lod<></td></lod<></td></lod></td></lod></td></lod>	_	<lod <lo<="" td=""><td>_</td><td><lod <l<="" td=""><td></td><td></td><td><lod< td=""><td><lod< td=""><td></td><td></td><td>LOD <l0< td=""><td></td><td></td><td>D <lod< td=""></lod<></td></l0<></td></lod<></td></lod<></td></lod></td></lod>	_	<lod <l<="" td=""><td></td><td></td><td><lod< td=""><td><lod< td=""><td></td><td></td><td>LOD <l0< td=""><td></td><td></td><td>D <lod< td=""></lod<></td></l0<></td></lod<></td></lod<></td></lod>			<lod< td=""><td><lod< td=""><td></td><td></td><td>LOD <l0< td=""><td></td><td></td><td>D <lod< td=""></lod<></td></l0<></td></lod<></td></lod<>	<lod< td=""><td></td><td></td><td>LOD <l0< td=""><td></td><td></td><td>D <lod< td=""></lod<></td></l0<></td></lod<>			LOD <l0< td=""><td></td><td></td><td>D <lod< td=""></lod<></td></l0<>			D <lod< td=""></lod<>
Benzo(k)fluoranthene	ug/l	1				_	_	_	_	\vdash	_	+-						D <loi< td=""><td>_</td><td>) <loe< td=""><td>_</td><td></td><td></td><td></td><td><lod <lo<="" td=""><td></td><td><lod <l<="" td=""><td></td><td>_</td><td><lod< td=""><td>_</td><td>_</td><td>_</td><td>LOD <lo< td=""><td>_</td><td>_</td><td>D <lod< td=""></lod<></td></lo<></td></lod<></td></lod></td></lod></td></loe<></td></loi<>	_) <loe< td=""><td>_</td><td></td><td></td><td></td><td><lod <lo<="" td=""><td></td><td><lod <l<="" td=""><td></td><td>_</td><td><lod< td=""><td>_</td><td>_</td><td>_</td><td>LOD <lo< td=""><td>_</td><td>_</td><td>D <lod< td=""></lod<></td></lo<></td></lod<></td></lod></td></lod></td></loe<>	_				<lod <lo<="" td=""><td></td><td><lod <l<="" td=""><td></td><td>_</td><td><lod< td=""><td>_</td><td>_</td><td>_</td><td>LOD <lo< td=""><td>_</td><td>_</td><td>D <lod< td=""></lod<></td></lo<></td></lod<></td></lod></td></lod>		<lod <l<="" td=""><td></td><td>_</td><td><lod< td=""><td>_</td><td>_</td><td>_</td><td>LOD <lo< td=""><td>_</td><td>_</td><td>D <lod< td=""></lod<></td></lo<></td></lod<></td></lod>		_	<lod< td=""><td>_</td><td>_</td><td>_</td><td>LOD <lo< td=""><td>_</td><td>_</td><td>D <lod< td=""></lod<></td></lo<></td></lod<>	_	_	_	LOD <lo< td=""><td>_</td><td>_</td><td>D <lod< td=""></lod<></td></lo<>	_	_	D <lod< td=""></lod<>
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Carbontetrachloride Chlorobenzene	ug/l	\vdash	\dashv	_	\vdash	+	+	+	+	+	+	+		$\vdash\vdash$	\dashv		<lod <lo<="" td=""><td>D <loi< td=""><td>D <105</td><td>1 /105</td><td>) <lod< td=""><td><lod< td=""><td><lod <loi<="" td=""><td>2100</td><td><lod <lo<="" td=""><td>D <100</td><td><lod <l<="" td=""><td>.OD <loi< td=""><td>0 40</td><td>O <lod< td=""><td><lod< td=""><td><100</td><td><lod <<="" td=""><td>LOD <lo< td=""><td>DD <loi< td=""><td>D // C</td><td>D <lod< td=""></lod<></td></loi<></td></lo<></td></lod></td></lod<></td></lod<></td></loi<></td></lod></td></lod></td></lod></td></lod<></td></lod<></td></loi<></td></lod>	D <loi< td=""><td>D <105</td><td>1 /105</td><td>) <lod< td=""><td><lod< td=""><td><lod <loi<="" td=""><td>2100</td><td><lod <lo<="" td=""><td>D <100</td><td><lod <l<="" td=""><td>.OD <loi< td=""><td>0 40</td><td>O <lod< td=""><td><lod< td=""><td><100</td><td><lod <<="" td=""><td>LOD <lo< td=""><td>DD <loi< td=""><td>D // C</td><td>D <lod< td=""></lod<></td></loi<></td></lo<></td></lod></td></lod<></td></lod<></td></loi<></td></lod></td></lod></td></lod></td></lod<></td></lod<></td></loi<>	D <105	1 /105) <lod< td=""><td><lod< td=""><td><lod <loi<="" td=""><td>2100</td><td><lod <lo<="" td=""><td>D <100</td><td><lod <l<="" td=""><td>.OD <loi< td=""><td>0 40</td><td>O <lod< td=""><td><lod< td=""><td><100</td><td><lod <<="" td=""><td>LOD <lo< td=""><td>DD <loi< td=""><td>D // C</td><td>D <lod< td=""></lod<></td></loi<></td></lo<></td></lod></td></lod<></td></lod<></td></loi<></td></lod></td></lod></td></lod></td></lod<></td></lod<>	<lod< td=""><td><lod <loi<="" td=""><td>2100</td><td><lod <lo<="" td=""><td>D <100</td><td><lod <l<="" td=""><td>.OD <loi< td=""><td>0 40</td><td>O <lod< td=""><td><lod< td=""><td><100</td><td><lod <<="" td=""><td>LOD <lo< td=""><td>DD <loi< td=""><td>D // C</td><td>D <lod< td=""></lod<></td></loi<></td></lo<></td></lod></td></lod<></td></lod<></td></loi<></td></lod></td></lod></td></lod></td></lod<>	<lod <loi<="" td=""><td>2100</td><td><lod <lo<="" td=""><td>D <100</td><td><lod <l<="" td=""><td>.OD <loi< td=""><td>0 40</td><td>O <lod< td=""><td><lod< td=""><td><100</td><td><lod <<="" td=""><td>LOD <lo< td=""><td>DD <loi< td=""><td>D // C</td><td>D <lod< td=""></lod<></td></loi<></td></lo<></td></lod></td></lod<></td></lod<></td></loi<></td></lod></td></lod></td></lod>	2100	<lod <lo<="" td=""><td>D <100</td><td><lod <l<="" td=""><td>.OD <loi< td=""><td>0 40</td><td>O <lod< td=""><td><lod< td=""><td><100</td><td><lod <<="" td=""><td>LOD <lo< td=""><td>DD <loi< td=""><td>D // C</td><td>D <lod< td=""></lod<></td></loi<></td></lo<></td></lod></td></lod<></td></lod<></td></loi<></td></lod></td></lod>	D <100	<lod <l<="" td=""><td>.OD <loi< td=""><td>0 40</td><td>O <lod< td=""><td><lod< td=""><td><100</td><td><lod <<="" td=""><td>LOD <lo< td=""><td>DD <loi< td=""><td>D // C</td><td>D <lod< td=""></lod<></td></loi<></td></lo<></td></lod></td></lod<></td></lod<></td></loi<></td></lod>	.OD <loi< td=""><td>0 40</td><td>O <lod< td=""><td><lod< td=""><td><100</td><td><lod <<="" td=""><td>LOD <lo< td=""><td>DD <loi< td=""><td>D // C</td><td>D <lod< td=""></lod<></td></loi<></td></lo<></td></lod></td></lod<></td></lod<></td></loi<>	0 40	O <lod< td=""><td><lod< td=""><td><100</td><td><lod <<="" td=""><td>LOD <lo< td=""><td>DD <loi< td=""><td>D // C</td><td>D <lod< td=""></lod<></td></loi<></td></lo<></td></lod></td></lod<></td></lod<>	<lod< td=""><td><100</td><td><lod <<="" td=""><td>LOD <lo< td=""><td>DD <loi< td=""><td>D // C</td><td>D <lod< td=""></lod<></td></loi<></td></lo<></td></lod></td></lod<>	<100	<lod <<="" td=""><td>LOD <lo< td=""><td>DD <loi< td=""><td>D // C</td><td>D <lod< td=""></lod<></td></loi<></td></lo<></td></lod>	LOD <lo< td=""><td>DD <loi< td=""><td>D // C</td><td>D <lod< td=""></lod<></td></loi<></td></lo<>	DD <loi< td=""><td>D // C</td><td>D <lod< td=""></lod<></td></loi<>	D // C	D <lod< td=""></lod<>
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Dibenz[A,H]anthracene Dibenzofuran	ug/l ug/l	\vdash	-	_	\vdash	_	+	+	+-	+	-	+	\vdash	$\vdash\vdash$				D <loi< td=""><td>_</td><td><loe< td=""><td><lod< td=""><td><lod <lod< td=""><td><lod <loi<="" td=""><td></td><td><lod <lo<="" td=""><td></td><td><lod <l<="" td=""><td></td><td>_</td><td>0 <lod< td=""><td><lod <lod< td=""><td>_</td><td><lod <<="" td=""><td>10D <10</td><td></td><td></td><td>D <lod< td=""></lod<></td></lod></td></lod<></lod </td></lod<></td></lod></td></lod></td></lod></td></lod<></lod </td></lod<></td></loe<></td></loi<>	_	<loe< td=""><td><lod< td=""><td><lod <lod< td=""><td><lod <loi<="" td=""><td></td><td><lod <lo<="" td=""><td></td><td><lod <l<="" td=""><td></td><td>_</td><td>0 <lod< td=""><td><lod <lod< td=""><td>_</td><td><lod <<="" td=""><td>10D <10</td><td></td><td></td><td>D <lod< td=""></lod<></td></lod></td></lod<></lod </td></lod<></td></lod></td></lod></td></lod></td></lod<></lod </td></lod<></td></loe<>	<lod< td=""><td><lod <lod< td=""><td><lod <loi<="" td=""><td></td><td><lod <lo<="" td=""><td></td><td><lod <l<="" td=""><td></td><td>_</td><td>0 <lod< td=""><td><lod <lod< td=""><td>_</td><td><lod <<="" td=""><td>10D <10</td><td></td><td></td><td>D <lod< td=""></lod<></td></lod></td></lod<></lod </td></lod<></td></lod></td></lod></td></lod></td></lod<></lod </td></lod<>	<lod <lod< td=""><td><lod <loi<="" td=""><td></td><td><lod <lo<="" td=""><td></td><td><lod <l<="" td=""><td></td><td>_</td><td>0 <lod< td=""><td><lod <lod< td=""><td>_</td><td><lod <<="" td=""><td>10D <10</td><td></td><td></td><td>D <lod< td=""></lod<></td></lod></td></lod<></lod </td></lod<></td></lod></td></lod></td></lod></td></lod<></lod 	<lod <loi<="" td=""><td></td><td><lod <lo<="" td=""><td></td><td><lod <l<="" td=""><td></td><td>_</td><td>0 <lod< td=""><td><lod <lod< td=""><td>_</td><td><lod <<="" td=""><td>10D <10</td><td></td><td></td><td>D <lod< td=""></lod<></td></lod></td></lod<></lod </td></lod<></td></lod></td></lod></td></lod>		<lod <lo<="" td=""><td></td><td><lod <l<="" td=""><td></td><td>_</td><td>0 <lod< td=""><td><lod <lod< td=""><td>_</td><td><lod <<="" td=""><td>10D <10</td><td></td><td></td><td>D <lod< td=""></lod<></td></lod></td></lod<></lod </td></lod<></td></lod></td></lod>		<lod <l<="" td=""><td></td><td>_</td><td>0 <lod< td=""><td><lod <lod< td=""><td>_</td><td><lod <<="" td=""><td>10D <10</td><td></td><td></td><td>D <lod< td=""></lod<></td></lod></td></lod<></lod </td></lod<></td></lod>		_	0 <lod< td=""><td><lod <lod< td=""><td>_</td><td><lod <<="" td=""><td>10D <10</td><td></td><td></td><td>D <lod< td=""></lod<></td></lod></td></lod<></lod </td></lod<>	<lod <lod< td=""><td>_</td><td><lod <<="" td=""><td>10D <10</td><td></td><td></td><td>D <lod< td=""></lod<></td></lod></td></lod<></lod 	_	<lod <<="" td=""><td>10D <10</td><td></td><td></td><td>D <lod< td=""></lod<></td></lod>	10D <10			D <lod< td=""></lod<>
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Methyl tertiary butyl ether (MTBE)	ug/l	+				_	+	+	+	+	\dashv			H			VLOD VLO	/D/LOI	D \LOL	, \.	1 100	\LOD	VLOD VLOI	J \LOD	, KLODIKLO	D \LOD	CLODICE	.00 \101	D \LOL	1 100	\LOD	LOD	VLOD I	LODICE	JU VLOI	D NEO	JELOD
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n-Butylbenzene n-Dibutyl phthalate (aq)	ug/l ug/l	\vdash				_	+	-	+	\vdash	-	+-		\vdash	-		<lod <lo<="" td=""><td>D <loi< td=""><td>D <lo< td=""><td>) <lo[< td=""><td><lod< td=""><td><lod< td=""><td><lod <loi<="" td=""><td>D <lod< td=""><td><lod <lo<="" td=""><td>D <lod< td=""><td><lod <l<="" td=""><td>OD <lo< td=""><td>D <lo[< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <<="" td=""><td>LOD <l0< td=""><td>OD <loi< td=""><td>D <lo< td=""><td>D <lod< td=""></lod<></td></lo<></td></loi<></td></l0<></td></lod></td></lod<></td></lod<></td></lod<></td></lo[<></td></lo<></td></lod></td></lod<></td></lod></td></lod<></td></lod></td></lod<></td></lod<></td></lo[<></td></lo<></td></loi<></td></lod>	D <loi< td=""><td>D <lo< td=""><td>) <lo[< td=""><td><lod< td=""><td><lod< td=""><td><lod <loi<="" td=""><td>D <lod< td=""><td><lod <lo<="" td=""><td>D <lod< td=""><td><lod <l<="" td=""><td>OD <lo< td=""><td>D <lo[< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod 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n-nitrosodimethylamine N-Nitroso-Di-N-Propylamine	ug/l ug/l	\vdash	\dashv	+	+	+	+	+	+	+	+	+	\vdash	H	-		<lod <lo<="" td=""><td></td><td></td><td></td><td></td><td></td><td><lod <loi<="" td=""><td></td><td></td><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod></td></lod></td></lod>						<lod <loi<="" td=""><td></td><td></td><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod></td></lod>				<lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod>			0 <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<>					OD <loi< td=""><td></td><td></td></loi<>		
n-Nitroso-n-dipropylamine (aq)	ug/l									\Box																											
n-propylbenzene	ug/l	\Box	\Box	[_	\perp	\perp	1	+	\perp	_	\vdash	\sqcup			<lod <lo<="" td=""><td></td><td></td><td></td><td></td><td></td><td><lod <loi<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td><lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod></td></lod>						<lod <loi<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td><lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod>							<lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<>					OD <loi< td=""><td></td><td></td></loi<>		
Pah,Total Pcb-101 2,2',4,5,5' - Pentachlorobiph	ug/l ug/l	\vdash	\dashv		-+	+	+	+	+	+	+	+	\vdash	\vdash	-		<lod <lo<="" td=""><td>D <loi< td=""><td></td><td></td><td><lod <lod< td=""><td></td><td><lod <loi<="" td=""><td></td><td><lod <lo<="" td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod></td></lod></td></lod></td></lod<></lod </td></loi<></td></lod>	D <loi< td=""><td></td><td></td><td><lod <lod< td=""><td></td><td><lod <loi<="" td=""><td></td><td><lod <lo<="" td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod></td></lod></td></lod></td></lod<></lod </td></loi<>			<lod <lod< td=""><td></td><td><lod <loi<="" td=""><td></td><td><lod <lo<="" td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod></td></lod></td></lod></td></lod<></lod 		<lod <loi<="" td=""><td></td><td><lod <lo<="" td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod></td></lod></td></lod>		<lod <lo<="" td=""><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod></td></lod>		<lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod>			0 <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<>					OD <loi< td=""><td></td><td></td></loi<>		
Pcb-118 2,3',4,4',5 - Pentachlorobipl	ug/l						_		1	_ 				H			<lod <lo<="" td=""><td></td><td></td><td>_</td><td></td><td></td><td><lod <loi<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>O <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod></td></lod>			_			<lod <loi<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>O <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod>							O <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<>					OD <loi< td=""><td></td><td></td></loi<>		
Pcb-138 2,2',3,4,4',5' - Hexachlorobi	ug/l						Ţ	\blacksquare		\Box							<lod <lo<="" td=""><td>D <loi< td=""><td>D <lod< td=""><td><l0[< td=""><td><lod< td=""><td><lod< td=""><td><lod <loi<="" td=""><td>D <lod< td=""><td><lod <l0<="" td=""><td>D <lod< td=""><td><lod <l<="" td=""><td>.OD <loi< td=""><td>D <l0[< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod<></td></lod<></td></l0[<></td></loi<></td></lod></td></lod<></td></lod></td></lod<></td></lod></td></lod<></td></lod<></td></l0[<></td></lod<></td></loi<></td></lod>	D <loi< td=""><td>D <lod< td=""><td><l0[< td=""><td><lod< td=""><td><lod< td=""><td><lod <loi<="" td=""><td>D <lod< td=""><td><lod <l0<="" td=""><td>D <lod< td=""><td><lod <l<="" td=""><td>.OD <loi< td=""><td>D <l0[< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td></td><td></td><td>OD <loi< 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Pcb-153 2,2',4,4',5,5' - Hexachlorobi Pcb-180 2,2',3,4,4',5,5' - Heptachloro	ug/l ug/l	\vdash	\dashv	_	\vdash	+	+	+	+	+	+	+		$\vdash\vdash$	\dashv			D <loi< td=""><td></td><td></td><td><lod <lod< td=""><td></td><td><lod <loi<="" td=""><td></td><td></td><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td></td><td>_</td><td>_</td><td>_</td><td>OD <loi< td=""><td>_</td><td>_</td></loi<></td></lod<></td></lod></td></lod></td></lod<></lod </td></loi<>			<lod <lod< td=""><td></td><td><lod <loi<="" td=""><td></td><td></td><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td></td><td>_</td><td>_</td><td>_</td><td>OD <loi< td=""><td>_</td><td>_</td></loi<></td></lod<></td></lod></td></lod></td></lod<></lod 		<lod <loi<="" td=""><td></td><td></td><td></td><td><lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td></td><td>_</td><td>_</td><td>_</td><td>OD <loi< td=""><td>_</td><td>_</td></loi<></td></lod<></td></lod></td></lod>				<lod <l<="" td=""><td></td><td></td><td>0 <lod< td=""><td></td><td>_</td><td>_</td><td>_</td><td>OD <loi< td=""><td>_</td><td>_</td></loi<></td></lod<></td></lod>			0 <lod< td=""><td></td><td>_</td><td>_</td><td>_</td><td>OD <loi< td=""><td>_</td><td>_</td></loi<></td></lod<>		_	_	_	OD <loi< td=""><td>_</td><td>_</td></loi<>	_	_
Pcb-28 2,4,4' - Trichlororbiphenyl	ug/I ug/I	\vdash	\dashv	-		+	+	+	+	+ +	\dashv	+	\vdash	H	-		<lod <lo<="" td=""><td></td><td></td><td></td><td></td><td></td><td><lod <loi<="" td=""><td></td><td></td><td></td><td><lod <l<="" td=""><td></td><td></td><td>O <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod></td></lod></td></lod>						<lod <loi<="" td=""><td></td><td></td><td></td><td><lod <l<="" td=""><td></td><td></td><td>O <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod></td></lod>				<lod <l<="" td=""><td></td><td></td><td>O <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod>			O <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<>					OD <loi< td=""><td></td><td></td></loi<>		
Pcb-52 2,2',5,5' - Tetrachlorobiphen	ug/l																	D <loi< td=""><td></td><td></td><td></td><td><lod< td=""><td></td><td></td><td><lod <lo<="" td=""><td></td><td></td><td></td><td></td><td>O <lod< td=""><td></td><td></td><td></td><td></td><td>DD <lo< td=""><td></td><td></td></lo<></td></lod<></td></lod></td></lod<></td></loi<>				<lod< td=""><td></td><td></td><td><lod <lo<="" td=""><td></td><td></td><td></td><td></td><td>O <lod< td=""><td></td><td></td><td></td><td></td><td>DD <lo< td=""><td></td><td></td></lo<></td></lod<></td></lod></td></lod<>			<lod <lo<="" td=""><td></td><td></td><td></td><td></td><td>O <lod< td=""><td></td><td></td><td></td><td></td><td>DD <lo< td=""><td></td><td></td></lo<></td></lod<></td></lod>					O <lod< td=""><td></td><td></td><td></td><td></td><td>DD <lo< td=""><td></td><td></td></lo<></td></lod<>					DD <lo< td=""><td></td><td></td></lo<>		
Pentachlorophenol (aq)	ug/l	\vdash	\vdash	[+	\perp	+	+	\vdash	+	+	\vdash	$\vdash \vdash$			<100 -10	ים יו כי	D 4100	12100	100	4100	<100 ±0	100	100 10	D 4100	100	00 .10	D -100	1 400	Z100	<100	<100	100 -1	20 40	D 210	Delon
Pentachlorophenol (PCP) Phenanthrene	ug/l ug/l	\vdash	\dashv	-	\vdash	+	+	+	+	+ +	+	+	\vdash	$\vdash\vdash$	\dashv			D <loi< td=""><td></td><td></td><td></td><td></td><td><lod <loi<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>0 <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod></td></loi<>					<lod <loi<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>0 <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod>							0 <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<>					OD <loi< td=""><td></td><td></td></loi<>		
Phenol	ug/l					工	土	土			工	上					<lod <lo<="" td=""><td></td><td></td><td></td><td></td><td></td><td><lod <loi<="" td=""><td></td><td></td><td></td><td><lod <l<="" td=""><td></td><td></td><td>O <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod></td></lod></td></lod>						<lod <loi<="" td=""><td></td><td></td><td></td><td><lod <l<="" td=""><td></td><td></td><td>O <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod></td></lod>				<lod <l<="" td=""><td></td><td></td><td>O <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod>			O <lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<>					OD <loi< td=""><td></td><td></td></loi<>		
Phenol (aq)	ug/l	\Box	\Box			$-\Box$	工	+	\perp	$+ \top$	$-\Box$	+	\vdash		\Box		$-\mathbf{I}$	+	+	+	\Box			\perp	+ T	+	$\vdash \top$	_	\perp	\perp		口	\neg	\bot	\perp	+	+
Propylbenzene Pyrene	ug/l ug/l	\vdash	\dashv		-+	+	+	+	+	+	+	+	\vdash	\vdash	-		<lod <lo<="" td=""><td>D <1 0</td><td>D <ior< td=""><td>) <101</td><td>) <i td="" uu<=""><td><i on<="" td=""><td><lod <loi<="" td=""><td>0 <100</td><td> < OD < 0</td><td>D <iod< td=""><td><lod <<="" td=""><td>00 <10</td><td>D <10r</td><td>O <lod< td=""><td><lod< td=""><td><i on<="" td=""><td><lod -<="" td=""><td>100 <10</td><td>OD <loi< td=""><td>D <io< td=""><td>D<iod< td=""></iod<></td></io<></td></loi<></td></lod></td></i></td></lod<></td></lod<></td></lod></td></iod<></td></lod></td></i></td></i></td></ior<></td></lod>	D <1 0	D <ior< td=""><td>) <101</td><td>) <i td="" uu<=""><td><i on<="" td=""><td><lod <loi<="" td=""><td>0 <100</td><td> < OD < 0</td><td>D <iod< td=""><td><lod <<="" td=""><td>00 <10</td><td>D <10r</td><td>O <lod< td=""><td><lod< td=""><td><i on<="" td=""><td><lod -<="" td=""><td>100 <10</td><td>OD <loi< td=""><td>D <io< td=""><td>D<iod< td=""></iod<></td></io<></td></loi<></td></lod></td></i></td></lod<></td></lod<></td></lod></td></iod<></td></lod></td></i></td></i></td></ior<>) <101) <i td="" uu<=""><td><i on<="" td=""><td><lod <loi<="" td=""><td>0 <100</td><td> < OD < 0</td><td>D <iod< td=""><td><lod <<="" td=""><td>00 <10</td><td>D <10r</td><td>O <lod< td=""><td><lod< td=""><td><i on<="" td=""><td><lod -<="" td=""><td>100 <10</td><td>OD <loi< td=""><td>D <io< td=""><td>D<iod< td=""></iod<></td></io<></td></loi<></td></lod></td></i></td></lod<></td></lod<></td></lod></td></iod<></td></lod></td></i></td></i>	<i on<="" td=""><td><lod <loi<="" td=""><td>0 <100</td><td> < OD < 0</td><td>D <iod< td=""><td><lod <<="" td=""><td>00 <10</td><td>D <10r</td><td>O <lod< td=""><td><lod< td=""><td><i on<="" td=""><td><lod -<="" td=""><td>100 <10</td><td>OD <loi< td=""><td>D <io< td=""><td>D<iod< td=""></iod<></td></io<></td></loi<></td></lod></td></i></td></lod<></td></lod<></td></lod></td></iod<></td></lod></td></i>	<lod <loi<="" td=""><td>0 <100</td><td> < OD < 0</td><td>D <iod< td=""><td><lod <<="" td=""><td>00 <10</td><td>D <10r</td><td>O <lod< td=""><td><lod< td=""><td><i on<="" td=""><td><lod -<="" td=""><td>100 <10</td><td>OD <loi< td=""><td>D <io< td=""><td>D<iod< td=""></iod<></td></io<></td></loi<></td></lod></td></i></td></lod<></td></lod<></td></lod></td></iod<></td></lod>	0 <100	< OD < 0	D <iod< td=""><td><lod <<="" td=""><td>00 <10</td><td>D <10r</td><td>O <lod< td=""><td><lod< td=""><td><i on<="" td=""><td><lod -<="" td=""><td>100 <10</td><td>OD <loi< td=""><td>D <io< td=""><td>D<iod< td=""></iod<></td></io<></td></loi<></td></lod></td></i></td></lod<></td></lod<></td></lod></td></iod<>	<lod <<="" td=""><td>00 <10</td><td>D <10r</td><td>O <lod< td=""><td><lod< td=""><td><i on<="" td=""><td><lod -<="" td=""><td>100 <10</td><td>OD <loi< td=""><td>D <io< td=""><td>D<iod< td=""></iod<></td></io<></td></loi<></td></lod></td></i></td></lod<></td></lod<></td></lod>	00 <10	D <10r	O <lod< td=""><td><lod< td=""><td><i on<="" td=""><td><lod -<="" td=""><td>100 <10</td><td>OD <loi< td=""><td>D <io< td=""><td>D<iod< td=""></iod<></td></io<></td></loi<></td></lod></td></i></td></lod<></td></lod<>	<lod< td=""><td><i on<="" td=""><td><lod -<="" td=""><td>100 <10</td><td>OD <loi< td=""><td>D <io< td=""><td>D<iod< td=""></iod<></td></io<></td></loi<></td></lod></td></i></td></lod<>	<i on<="" td=""><td><lod -<="" td=""><td>100 <10</td><td>OD <loi< td=""><td>D <io< td=""><td>D<iod< td=""></iod<></td></io<></td></loi<></td></lod></td></i>	<lod -<="" td=""><td>100 <10</td><td>OD <loi< td=""><td>D <io< td=""><td>D<iod< td=""></iod<></td></io<></td></loi<></td></lod>	100 <10	OD <loi< td=""><td>D <io< td=""><td>D<iod< td=""></iod<></td></io<></td></loi<>	D <io< td=""><td>D<iod< td=""></iod<></td></io<>	D <iod< td=""></iod<>
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tert-Amyl methyl ether (TAME)	ug/l	\vdash	\vdash	[+	\perp	+	+	\vdash	+	+	\vdash	$\vdash \vdash$			<100 -10	ים יו כי	D 4100	12100	100	4100	<100 ±0	100	100 10	D 4100	100	00 .10	D -100	1 400	Z100	<100	<100	100 -1	20 40	D 210	D <1.00
tert-Butylbenzene Tetrachloroethene	ug/l ug/l	\vdash	\vdash		\vdash	+	+	+	+	+	+	+	\vdash	$\vdash\vdash$	-		<lod <lo<="" td=""><td>_</td><td>_</td><td></td><td></td><td></td><td><lod <loi<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>O <lod< td=""><td><lod <lod< td=""><td>_</td><td>_</td><td>_</td><td>OD <loi< td=""><td>_</td><td>_</td></loi<></td></lod<></lod </td></lod<></td></lod></td></lod>	_	_				<lod <loi<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>O <lod< td=""><td><lod <lod< td=""><td>_</td><td>_</td><td>_</td><td>OD <loi< td=""><td>_</td><td>_</td></loi<></td></lod<></lod </td></lod<></td></lod>							O <lod< td=""><td><lod <lod< td=""><td>_</td><td>_</td><td>_</td><td>OD <loi< td=""><td>_</td><td>_</td></loi<></td></lod<></lod </td></lod<>	<lod <lod< td=""><td>_</td><td>_</td><td>_</td><td>OD <loi< td=""><td>_</td><td>_</td></loi<></td></lod<></lod 	_	_	_	OD <loi< td=""><td>_</td><td>_</td></loi<>	_	_
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Trichlorofluoromethane	ug/l							\blacksquare									<lod <lo<="" td=""><td></td><td></td><td></td><td><lod< td=""><td></td><td><lod <loi<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td><lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod></td></lod<></td></lod>				<lod< td=""><td></td><td><lod <loi<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td><lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod></td></lod<>		<lod <loi<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td><lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<></td></lod>							<lod< td=""><td></td><td></td><td></td><td></td><td>OD <loi< td=""><td></td><td></td></loi<></td></lod<>					OD <loi< td=""><td></td><td></td></loi<>		
Vinyl chloride	ug/l																			1	1 1								1	1	l .	ı I	- 1			_1	

Surface Water Dataset Summary

Surface Water Screening Assessment

			Analyses A	Above LOD	Concentati	on
Parameter	Unit	No. Analyses	No.	%'age of Analyses	Range	Average
General Parameters						
Alkalinity	mg CaCO3/l	28	26	92.9%	170 - 1500	514
Total Hardness as CaCO3	mg/l	55	53	96.4%	100 - 491	265
Ammoniacal Nitrogen as N	mg/l	98	74	75.5%	0.034 - 1.7	0.28
BOD + ATU (5 day)	mg/l	72	42	58.3%	1 - 33	6.11
Calcium (diss.filt)	mg/l	71	69	97.2%	2.8 - 152	66.4
Chloride	mg/l	98	96	98.0%	7 - 250	42.7
Conductivity	uS/cm	56	54	96.4%	206 - 1164	563
Cyanide	mg/l	28	0	None > LOD	None > LOD	None > LOE
Dissolved oxygen	mg/l	72	68	94.4%	0.47 - 13.6	6.52
Dissolved oxygen (saturation)	%	55	51	92.7%	3.7 - 139.3	54.1
Magnesium dissolved as Mg	mg/l	55	53	96.4%	1.1 - 35	15.6
Nitrogen, Total Oxidised as N	mg/l	72	39	54.2%	0.123 - 9.43	2.08
Nitrate as NO3	mg/l	72	45	62.5%	0.467 - 41.5	8.0
Nitrite as NO2	mg/l	72	14	19.4%	0.05 - 0.2	0.100
PΗ	pH Units	82	80	97.6%	7 - 12	8.04
Phosphate, Ortho as P	mg/l	71	43	60.6%	0.0424 - 4.2	0.67
Suspended solids, Total	mg/l	72	65	90.3%	2 - 714	72.8
Sulphate	mg/l	72	62	86.1%	7 - 110	30.8
Metals						
Arsenic	ug/l	42	37	88.1%	0.253 - 6.9	2.16
Boron	ug/l	28	26	92.9%	24 - 1300	548
Cadmium	ug/l	97	27	27.8%	0.097 - 2.9	0.88
Chromium	ug/l	97	34	35.1%	0.671 - 18	5.81
Copper	ug/l	97	41	42.3%	0.852 - 19	4.63
.ead	ug/I	97	30	30.9%	0.026 - 27	4.03
Mercury	ug/I	42	4	9.5%	0.68 - 2.5	1.45
Nickel	ug/I	97	42	43.3%	0.644 - 15	3.34
				43.3% 64.3%		
Selenium	ug/l	42	27		0.47 - 4.9	1.76
Zinc	ug/l	97	94	96.9%	0.558 - 360	27.79
BTEX Compoundas	_					
Sum of detected BTEX	ug/l	18	0	None > LOD	None > LOD	None > LO
Benzene	ug/l	45	0	None > LOD	None > LOD	None > LO
Ethylbenzene	ug/l	45	0	None > LOD	None > LOD	None > LO
Toluene	ug/l	45	0	None > LOD	None > LOD	None > LO
Sum of detected Xylenes	ug/l	18	0	None > LOD	None > LOD	None > LO
n,p xylenes	ug/l	28	0	None > LOD	None > LOD	None > LO
m,p-Xylene	ug/l	19	0	None > LOD	None > LOD	None > LO
o-Xylene	ug/l	45	0	None > LOD	None > LOD	None > LO
Petroleum Hydrocarbons						
NVM, light petroleum extract	mg/l	55	11	20.0%	5 - 29	10
Total petroleum hydrocarbons	ug/l	28	0	None > LOD	None > LOD	None > LO
GRO >C5-C12	ug/l	18	0	None > LOD	None > LOD	None > LO
TPH >C10-C16	ug/l	55	0	None > LOD	None > LOD	None > LO
TPH >C16-C24	ug/l	55	7	12.7%	21 - 169	85
TPH >C24-C40	ug/l	55	12	21.8%	51 - 284	159
TPH >C6-C40	ug/l	55	13	23.6%	51 - 422	189
TPH >C6-C8	ug/l	55	0	None > LOD	None > LOD	None > LO
TPH >C8-C10	ug/l	55	0	None > LOD	None > LOD	None > LO
Total Aliphatic TPH	ug/l	28	0	None > LOD	None > LOD	None > LO
Total Aliphatics & Aromatics >C5-35 (aq)	ug/I	18	2	11.1%	59 - 193	126.0
Fotal Aliphatics >C12-C35 (aq)	ug/l	18	2	11.1%	23 - 76	49.5
Total Aromatics >EC12-EC35 (aq)	ug/l	18	2	11.1%	36 - 117	76.5
Aromatic hydrocarbons	_	28	0	None > LOD	None > LOD	None > LO
	ug/l					
Ali >C10-12	ug/l	28	0	None > LOD	None > LOD	None > LO
Ali >C12-16	ug/l	28	0	None > LOD	None > LOD	None > LO
Ali >C16-21	ug/l	28	0	None > LOD	None > LOD	None > LO
Ali >C21-35	ug/l	28	0	None > LOD	None > LOD	None > LO
Ali >C35-44	ug/l	28	0	None > LOD	None > LOD	None > LO
Ali >C5-6	ug/l	28	0	None > LOD	None > LOD	None > LO
Ali >C6-8	ug/l	28	0	None > LOD	None > LOD	None > LO
Ali >C8-10	ug/l	28	0	None > LOD	None > LOD	None > LO
Aliphatics >C10-C12	ug/l	18	0	None > LOD	None > LOD	None > LO
Aliphatics >C12-C16 (aq)	ug/l	18	0	None > LOD	None > LOD	None > LO
Aliphatics >C16-C21 (aq)	ug/l	18	1	5.6%	11	11
Aliphatics >C21-C35 (aq)	ug/l	18	2	11.1%	23 - 65	44
Aliphatics >C5-C6	ug/l	18	0	None > LOD	None > LOD	None > LO
Aliphatics >C6-C8	ug/l	18	0	None > LOD	None > LOD	None > LO
Aliphatics >C8-C10	ug/l	18	0	None > LOD	None > LOD	None > LO
Arom >C10-12	ug/l	28	0	None > LOD	None > LOD	None > LO
Arom >C12-16	ug/l	28	0	None > LOD	None > LOD	None > LO
Arom >C16-21	ug/l	28	0	None > LOD	None > LOD	None > LO
Arom >C21-35	ug/l	28	0	None > LOD	None > LOD	None > LO
Arom >C35-44	ug/l	28	0	None > LOD	None > LOD	None > LO
Arom >C5-7			0	None > LOD	None > LOD	None > LO
Arom >C5-7 Arom >C7-8	ug/l ug/l	28 28	0	None > LOD None > LOD	None > LOD None > LOD	None > LO
Arom >C8-10	ug/l	28	0	None > LOD	None > LOD	None > LO
Aromatics >EC10-EC12	ug/l	18	0	None > LOD	None > LOD	None > LO
Aromatics >EC12-EC16 (aq)	ug/l	18	1	5.6%	11	11
Aromatics >EC16-EC21 (aq)	ug/l	18	1	5.6%	21	21
Aromatics >EC21-EC35 (aq)	ug/l	18	2	11.1%	36 - 85	60.5
Aromatics >EC5-EC7	ug/l	18	0	None > LOD	None > LOD	None > LO
Aromatics >EC7-EC8	ug/l	18	0	None > LOD	None > LOD	None > LO

			Analyses A	Above EQS			Analyses A	bove CCW TL			
arameter	Unit	EQS	No.	%'age of Analyses	Additional Notes	CCW TL	No.	%'age of Analyses	Additional Notes	Min	Max
eneral Parameters											
kalinity tal Hardness as CaCO3	mg CaCO3/I mg/I	-	No EQS No EQS			+ -	No TL No TL			170 100	1500 491
nmoniacal Nitrogen as N	mg/l	0.6	6	6.1%	"Good" Status under WFD	1	3	3.1%		0.034	1.7
DD + ATU (5 day)	mg/l	5	15	20.8%	"Good" Status under WFD	18	3	4.2%		1	33
lcium (diss.filt)	mg/l	-	No EQS	0.00/		300	0	0.0%		2.8	152
loride nductivity	mg/l uS/cm	250	0 No EQS	0.0%		300 2000	0	0.0%	1	7 206	250 1164
anide	mg/l	1	None > LOD			-	No TL	0.076		200	1104
ssolved oxygen	mg/l	-	No EQS			5	44	61.1%		0.47	13.6
ssolved oxygen (saturation)	%	60	28	50.9%	"Good" Status under WFD	-	No TL			3.7	139.3
agnesium dissolved as Mg	mg/l	-	No EQS			-	No TL			1.1	35
trogen, Total Oxidised as N	mg/l	-	No EQS			2	14	19.4%		0.123	9.43
trate as NO3 trite as NO2	mg/l mg/l	-	No EQS No EQS			1	44 0	61.1% 0.0%		0.467	41.5 0.2
I	pH Units	9	3	3.7%	Around Llanwern	8.5	16	19.5%		7	12
osphate, Ortho as P	mg/l	0.12	36	50.7%	"Good" Status under WFD	1	12	16.9%		0.0424	4.2
spended solids, Total	mg/l	-	No EQS			250	5	6.9%		2	714
lphate	mg/l	400	0	0.0%		300	0	0.0%	\perp	7	110
etals senic	ug/l	50	0				No TL			0.253	6.9
ron	ug/I	2000	0			+ :	No TL			24	1300
dmium	ug/l	0.15	24	24.7%	1	5	0	0.0%		0.097	2.9
romium	ug/l	3.4	16	16.5%	Chromium VI		No TL			0.671	18
pper	ug/l	10	6	6.2%		-	No TL			0.852	19
ad	ug/l	1.2	14	14.4%	1	250	0	0.0%	_	0.026	27
ercury	ug/l	0.07	4	9.5%		100	No TL	0.09/		0.68	2.5
ckel lenium	ug/l ug/l	-	11 No EQS	11.3%	 	- 100	0 No TL	0.0%		0.644	15 4.9
nc	ug/l	75	7			1000	0	0.0%		0.558	360
EX Compoundas											
m of detected BTEX	ug/l		-			2000	None > LOD				
nzene	ug/l	-	-			2000	None > LOD				
hylbenzene luene	ug/l	-	-			2000 2000	None > LOD None > LOD				
m of detected Xylenes	ug/l ug/l	-	-			2000	None > LOD				
p xylenes	ug/l	-	-			2000	None > LOD				
p-Xylene	ug/l	-	-			2000	None > LOD				
Kylene	ug/l	-	-			2000	None > LOD				
troleum Hydrocarbons						-		20.00/		_	20
/M, light petroleum extract tal petroleum hydrocarbons	mg/l ug/l	-	-			2000	11 None > LOD	20.0%	1	5	29
10 >C5-C12	ug/l	-	-			2000	None > LOD				
H >C10-C16	ug/l	-	-			-	No TL				
H >C16-C24	ug/l	-	-			-	No TL			21	169
H >C24-C40	ug/l	-	-				No TL			51	284
H >C6-C40	ug/l	-	-			+ :	No TL			51	422
"H >C6-C8 "H >C8-C10	ug/l ug/l	-	-			+ -	No TL No TL				
tal Aliphatic TPH	ug/l	-	-			-	No TL				
tal Aliphatics & Aromatics >C5-35 (aq)	ug/l	-	-			2000	0	0.0%		59	193
tal Aliphatics >C12-C35 (aq)	ug/l		-			2000	0	0.0%		23	76
tal Aromatics >EC12-EC35 (aq)	ug/l	-	-			2000	0	0.0%		36	117
omatic hydrocarbons >C10-12	ug/l	-	-		1	-	No TL		\vdash	\vdash	-
>C10-12 >C12-16	ug/l ug/l	-	-		1	-	No TL No TL		\vdash	\vdash	
>C16-21	ug/l	-	-		1	-	No TL				
>C21-35	ug/l	-	-			-	No TL				
>C35-44	ug/l	-	<u> </u>			1 -	No TL		\sqcup		
>C5-6	ug/l	-	· ·		-	+ -	No TL		\vdash	\vdash	
>C6-8 >C8-10	ug/l ug/l	-	-		+	<u> </u>	No TL No TL		+	\vdash	
phatics >C10-C12	ug/I	-	-		1	+ :	No TL		\vdash		
phatics >C12-C16 (aq)	ug/l	-	-			-	No TL				
phatics >C16-C21 (aq)	ug/l	-	-			-	No TL			11	11
phatics >C21-C35 (aq)	ug/l	-	-		<u> </u>	<u> </u>	No TL		\sqcup	23	65
phatics >C5-C6 phatics >C6-C8	ug/l	-	-		 	-	No TL		\vdash	\vdash	
phatics >C6-C8 phatics >C8-C10	ug/l ug/l	-	-		1	+ :	No TL No TL		\vdash	\vdash	
om >C10-12	ug/l	-			1		No TL				
om >C12-16	ug/l	-			<u> </u>		No TL				
om >C16-21	ug/l	-	-			-	No TL				
om >C21-35	ug/l	-	-		<u> </u>	-	No TL		\vdash		
om >C35-44	ug/I	-	-		1	-	No TL		\vdash	\vdash	
om >C5-7 om >C7-8	ug/l ug/l	-	-		1	-	No TL No TL		+	\vdash	
om >C8-10	ug/I	-	-		 	- -	No TL			\vdash	-
omatics >EC10-EC12	ug/l	-			1	-	No TL				
omatics >EC12-EC16 (aq)	ug/l	-	-		<u> </u>	-	No TL			11	11
omatics >EC16-EC21 (aq)	ug/l	-	-			-	No TL			21	21
omatics >EC21-EC35 (aq)	ug/l	-	-		1	-	No TL		_	36	85
omatics >EC5-EC7 omatics >EC7-EC8	ug/l ug/l	-	-		+	-	No TL No TL		-	\vdash	
omatics >EC8-EC10	ug/I	-	-			-	No TL			\vdash	-

		No.	Analyses A		Concentati	on	
Parameter	Unit	Analyses	No.	%'age of Analyses	Range	Average	
Other Organic Compounds				riiuryses			
PAH, Total Detected USEPA 16 (aq)	ug/l	19	2	10.5%	6.21 - 17.2	11.7	
Chrysene (aq)	ug/l	19	2	10.5%	0.032 - 1.85	0.94	
luoranthene (aq)	ug/l	19	2	10.5%	0.0365 - 2.24	1.14	
Pyrene (aq)	ug/l	19	2	10.5%	0.0289 - 1.88	0.95	
Benzo(a)anthracene (aq) Phenanthrene (aq)	ug/l ug/l	19 19	2	10.5% 10.5%	0.021 - 1.09 0.0337 - 0.949	0.56	
Acenaphthene (aq)	ug/l	19	2	10.5%	0.121 - 0.13	0.43	
Acenaphthylene (aq)	ug/l	19	1	5.3%	0.0601	0.060	
Benzo(a)pyrene (aq)	ug/l	19	2	10.5%	0.016 - 1.56	0.79	
Benzo(b)fluoranthene (aq)	ug/l	19	2	10.5%	0.0362 - 2.83	1.43	
Benzo(g,h,i)perylene (aq)	ug/l	19	2	10.5%	0.0205 - 1.57	0.80	
luorene (aq)	ug/l	19	2	10.5%	0.042 - 0.0858	0.064	
ndeno(1,2,3-cd)pyrene (aq)	ug/l	19	2	10.5%	0.0141 - 1.43	0.72	
Naphthalene (aq)	ug/l	19	2	10.5%	0.318 - 6.02	3.17	
Phenols	mg/l	28	2	7.1%	0.03 - 0.29	0.16	
1-Bromofluorobenzene**	%	3 19	1	33.3%	95.8	95.8	
Anthracene (aq) Benzo(k)fluoranthene (aq)	ug/l ug/l	19	1	5.3%	0.125 1.09	0.125 1.09	
Dibenzo(a,h)anthracene (aq)	ug/l	19	1	5.3%	0.367	0.367	
Dibromofluoromethane**	%	3	1	33.3%	115	115	
sophorone (aq)	ug/l	3	1	33.3%	1.59	1.59	
,1,1,2-Tetrachloroethane	ug/l	29	0	None > LOD	None > LOD	None > L	
,1,1-Trichloroethane	ug/l	29	0	None > LOD	None > LOD	None > L	
,1,2,2-Tetrachloroethane	ug/l	3	0	None > LOD	None > LOD	None > L	
,1,2-Trichloroethane	ug/l	29	0	None > LOD	None > LOD	None > L	
,1-Dichloroethane	ug/l	29	0	None > LOD	None > LOD	None > L	
,1-Dichloroethene	ug/l	29	0	None > LOD	None > LOD	None > L	
,1-Dichloropropene	ug/l	29	0	None > LOD	None > LOD	None > L	
,2,3,6,7,8 HxCDD*	ng/l	3	0	None > LOD	None > LOD	None > L	
,2,3-Trichlorobenzene	ug/l	29	0	None > LOD	None > LOD	None > L	
,2,3-Trichloropropane	ug/l	29	0	None > LOD None > LOD	None > LOD None > LOD	None > L None > I	
,2,4-Trichlorobenzene ,2,4-Trichlorobenzene (aq)	ug/l	29 3	0		None > LOD None > LOD		
,2,4-Trichlorobenzene (aq) ,2,4-Trimethylbenzene	ug/l ug/l	29	0	None > LOD None > LOD	None > LOD None > LOD	None > L None > L	
,2-Dibromo-3-chloropropane	ug/l	29	0	None > LOD	None > LOD	None > L	
,2-Dibromoethane	ug/l	29	0	None > LOD	None > LOD	None > L	
,2-Dichlorobenzene	ug/l	29	0	None > LOD	None > LOD	None > L	
,2-Dichlorobenzene (aq)	ug/l	3	0	None > LOD	None > LOD	None > L	
,2-Dichloroethane	ug/l	29	0	None > LOD	None > LOD	None > L	
,2-Dichloropropane	ug/l	29	0	None > LOD	None > LOD	None > L	
,3,5-Trichlorobenzene	ug/l	3	0	None > LOD	None > LOD	None > L	
,3,5-Trimethylbenzene	ug/l	29	0	None > LOD	None > LOD	None > L	
,3-Dichlorobenzene	ug/l	29	0	None > LOD	None > LOD	None > L	
,3-Dichlorobenzene (aq)	ug/l	3	0	None > LOD	None > LOD	None > L	
,3-Dichloropropane	ug/l	29	0	None > LOD	None > LOD None > LOD	None > L None > L	
,4-Dichlorobenzene ,4-Dichlorobenzene (aq)	ug/l	29 3	0	None > LOD None > LOD	None > LOD	None > L	
,2-Dichloropropane	ug/l ug/l	3	0	None > LOD	None > LOD	None > L	
,4,5-Trichlorophenol	ug/l	28	0	None > LOD	None > LOD	None > L	
,4,5-Trichlorophenol (aq)	ug/l	3	0	None > LOD	None > LOD	None > L	
,4,6-Trichlorophenol	ug/l	28	0	None > LOD	None > LOD	None > L	
,4,6-Trichlorophenol (aq)	ug/l	3	0	None > LOD	None > LOD	None > L	
,4-Dichlorophenol	ug/l	28	0	None > LOD	None > LOD	None > L	
,4-Dichlorophenol (aq)	ug/l	3	0	None > LOD	None > LOD	None > L	
,4-Dimethylphenol	ug/l	28	0	None > LOD	None > LOD	None > L	
,4-Dimethylphenol (aq)	ug/l	3	0	None > LOD	None > LOD	None > L	
,4-Dinitrotoluene	ug/l	28	0	None > LOD	None > LOD	None > L	
,4-Dinitrotoluene (aq)	ug/l	3 28	0	None > LOD None > LOD	None > LOD None > LOD	None > L None > L	
,6-Dinitrotoluene ,6-Dinitrotoluene (aq)	ug/l ug/l	3	0	None > LOD None > LOD	None > LOD None > LOD	None > L None > L	
-Chloronaphthalene	ug/l	28	0	None > LOD	None > LOD	None > L	
-Chloronaphthalene (aq)	ug/l	3	0	None > LOD	None > LOD	None > L	
-Chlorophenol	ug/l	28	0	None > LOD	None > LOD	None > L	
-Chlorophenol (aq)	ug/l	3	0	None > LOD	None > LOD	None > L	
-Chlorotoluene	ug/l	29	0	None > LOD	None > LOD	None > L	
-Methyl-4,6-Dinitrophenol	ug/l	28	0	None > LOD	None > LOD	None > L	
-Methylnaphthalene	ug/l	28	0	None > LOD	None > LOD	None > L	
-Methylnaphthalene (aq)	ug/l	3	0	None > LOD	None > LOD	None > L	
-Methylphenol	ug/l	28	0	None > LOD	None > LOD	None > L	
-Methylphenol (aq)	ug/l	3 28	0	None > LOD None > LOD	None > LOD None > LOD	None > L None > I	
-Nitroaniline -Nitroaniline (aq)	ug/l ug/l	3	0	None > LOD None > LOD	None > LOD None > LOD	None > L None > L	
-Nitroaniine (aq) -Nitrophenol	ug/I	28	0	None > LOD	None > LOD	None > L	
-Nitrophenol (aq)	ug/l	3	0	None > LOD	None > LOD	None > L	
-Nitroaniline	ug/l	28	0	None > LOD	None > LOD	None > L	
-Nitroaniline (aq)	ug/l	3	0	None > LOD	None > LOD	None > L	
-Bromophenyl Phenyl Ether	ug/l	28	0	None > LOD	None > LOD	None > L	
-Bromophenylphenylether (aq)	ug/l	3	0	None > LOD	None > LOD	None > L	
-Chloro-3-Methylphenol	ug/l	28	0	None > LOD	None > LOD	None > L	
-Chloro-3-methylphenol (aq)	ug/l	3	0	None > LOD	None > LOD	None > L	
-Chloroaniline	ug/l	28	0	None > LOD	None > LOD	None > L	
-Chloroaniline (aq)	ug/l	3	0	None > LOD	None > LOD	None > L	
-Chlorophenyl Phenyl Ether	ug/l	28	0	None > LOD	None > LOD	None > L	
-Chlorophenylphenylether (aq) -Chlorotoluene	ug/l	3	0	None > LOD None > LOD	None > LOD	None > L	
	ug/l	29 28	0	None > LOD None > LOD	None > LOD None > LOD	None > L None > L	
-Isopropyltoluene -iso-Propyltoluene	ug/l ug/l	3	0	None > LOD None > LOD	None > LOD None > LOD	None > L None > L	
-Methylphenol	ug/I	28	0	None > LOD	None > LOD	None > L	
-Methylphenol (aq)	ug/l	3	0	None > LOD	None > LOD	None > L	
-Nitroaniline	ug/l	28	0	None > LOD	None > LOD	None > L	
-Nitroaniline (aq)	ug/l	3	0	None > LOD	None > LOD	None > L	
-Nitrophenol (aq)	ug/l	3	0	None > LOD	None > LOD	None > L	
cenaphthene	ug/l	28	0	None > LOD	None > LOD	None > L	

			Analyses	Above EQS			Analyses A	Above CCW TL			
Parameter	Unit	EQS		%'age of	Additional Notes	CCW TL		%'age of	Additional Notes	Min	Max
Other Organic Company			No.	Analyses			No.	Analyses	Notes		
Other Organic Compounds PAH, Total Detected USEPA 16 (aq)	ug/l	-	-							6.21	17.2
Chrysene (aq)	ug/l	-	-							0.032	1.85
Fluoranthene (aq)	ug/l	-	-							0.0365	2.24
Pyrene (aq)	ug/l	-	-							0.0289	1.88
Benzo(a)anthracene (aq)	ug/l	-	-							0.021	1.09
Phenanthrene (aq)	ug/l	-	-							0.0337	0.949
Acenaphthene (aq)	ug/l	-	-							0.121	0.13
Acenaphthylene (aq)	ug/l	- 00047	-	40.50/						0.0601	0.0601
Benzo(a)pyrene (aq) Benzo(b)fluoranthene (aq)	ug/l	0.00017 0.017	2	10.5% 10.5%						0.016	1.56 2.83
Benzo(b)fluoranthene (aq) Benzo(g,h,i)perylene (aq)	ug/l ug/l	- 0.017	-	10.5%		 				0.0362	1.57
Fluorene (aq)	ug/I		-							0.0203	0.0858
Indeno(1,2,3-cd)pyrene (aq)	ug/l	- 1	-			l				0.0141	1.43
Naphthalene (aq)	ug/l	2	1	5.3%						0.318	6.02
Phenols	mg/l	-	-							0.03	0.29
4-Bromofluorobenzene**	%	- 1	-							95.8	95.8
Anthracene (aq)	ug/l	0.1	1	5.3%						0.125	0.125
Benzo(k)fluoranthene (aq)	ug/l	0.017	1	5.3%						1.09	1.09
Dibenzo(a,h)anthracene (aq)	ug/l	-	-							0.367	0.367
Dibromofluoromethane**	%	-	-							115	115
Isophorone (aq)	ug/l		-							1.59	1.59
1,1,1,2-Tetrachloroethane	ug/l	\vdash			 	 			-		
1,1,1-Trichloroethane	ug/l	\vdash			+	 				l 	├──
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	ug/l ug/l	\vdash			+	 				—	\vdash
1,1-Dichloroethane	ug/I	Н				l					\vdash
1,1-Dichloroethene	ug/I				1						
1,1-Dichloropropene	ug/l				1	 					†
1,2,3,6,7,8 HxCDD*	ng/l										
1,2,3-Trichlorobenzene	ug/l										
1,2,3-Trichloropropane	ug/l	ш									
1,2,4-Trichlorobenzene	ug/l										$ldsymbol{oxed}$
1,2,4-Trichlorobenzene (aq)	ug/l	$oldsymbol{\sqcup}$									Ь—
1,2,4-Trimethylbenzene	ug/l	\vdash			-						Ь—
1,2-Dibromo-3-chloropropane	ug/l					-					
1,2-Dibromoethane 1,2-Dichlorobenzene	ug/l	\vdash									
1,2-Dichlorobenzene (aq)	ug/l ug/l	\vdash			+	 				-	├──
1,2-Dichloroethane	ug/l					 					
1,2-Dichloropropane	ug/l										
1,3,5-Trichlorobenzene	ug/l										
1,3,5-Trimethylbenzene	ug/l	1 1									
1,3-Dichlorobenzene	ug/l										
1,3-Dichlorobenzene (aq)	ug/l										
1,3-Dichloropropane	ug/l										
1,4-Dichlorobenzene	ug/l										└
1,4-Dichlorobenzene (aq)	ug/l										
2,2-Dichloropropane	ug/l	\vdash				 					
2,4,5-Trichlorophenol	ug/l	\vdash			-				-		
2,4,5-Trichlorophenol (aq) 2,4,6-Trichlorophenol	ug/l ug/l	\vdash			+	 				-	├──
2,4,6-Trichlorophenol (aq)	ug/I					 					
2,4-Dichlorophenol	ug/l										_
2,4-Dichlorophenol (aq)	ug/l				1						—
2,4-Dimethylphenol	ug/l				1						—
2,4-Dimethylphenol (aq)	ug/l										
2,4-Dinitrotoluene	ug/l										
2,4-Dinitrotoluene (aq)	ug/l										
2,6-Dinitrotoluene	ug/l	\sqcup								L	Ļ
2,6-Dinitrotoluene (aq)	ug/l	\vdash			-						Ь—
2-Chloronaphthalene	ug/l	\vdash			-	 			-	—	
2-Chloronaphthalene (aq) 2-Chlorophenol	ug/l	\vdash				 			-		├──
2-Chlorophenol (aq)	ug/l ug/l	\vdash			+	 				—	\vdash
2-Chlorotoluene	ug/I	\vdash			 	 			 	l 	
2-Methyl-4,6-Dinitrophenol	ug/I	\vdash			<u> </u>	1					
2-Methylnaphthalene	ug/l				İ						
2-Methylnaphthalene (aq)	ug/l										
2-Methylphenol	ug/l										
2-Methylphenol (aq)	ug/l	\Box									
2-Nitroaniline	ug/l	oxdot									ــــــــا
2-Nitroaniline (aq)	ug/l	igspace									Ь—
2-Nitrophenol	ug/l	\vdash			 	 			-		
2-Nitrophenol (aq)	ug/l	\vdash			+	 			 	—	├──
3-Nitroaniline 3-Nitroaniline (aq)	ug/l	\vdash			+	 			 	l 	├──
4-Bromophenyl Phenyl Ether	ug/l ug/l	\vdash			 	 			 	l 	
4-Bromophenylphenylether (aq)	ug/I	\vdash			<u> </u>	1					
4-Chloro-3-Methylphenol	ug/I				İ						
4-Chloro-3-methylphenol (aq)	ug/l										
4-Chloroaniline	ug/l										
4-Chloroaniline (aq)	ug/l										
4-Chlorophenyl Phenyl Ether	ug/l										
4-Chlorophenylphenylether (aq)	ug/l	ш									
4-Chlorotoluene	ug/l										$ldsymbol{ldsymbol{eta}}$
4-Isopropyltoluene	ug/l	ш									<u> </u>
4-iso-Propyltoluene	ug/l	╙									<u> </u>
4-Methylphenol	ug/l	\vdash				<u> </u>				l	Ь—
4-Methylphenol (aq)	ug/l	\vdash				<u> </u>				l	Ь—
4-Nitroaniline	ug/l	\vdash			1	 			-	—	├
4-Nitroaniline (aq)	ug/l	\vdash			-	\vdash			 	l 	Н—
4-Nitrophenol (aq) Acenaphthene	ug/l ug/l	\vdash			+	 				—	\vdash
Acenaphthylene Acenaphthylene	ug/I ug/I	\vdash		-	+	 			_	l 	—

Dozomatov	11-2	No.	Analyses	Above LOD	Concentat	ion
Parameter	Unit	Analyses	No.	%'age of Analyses	Range	Average
Anthracene	ug/l	28	0	None > LOD	None > LOD	None > LOD
Azobenzene	ug/l	28	0	None > LOD	None > LOD	None > LOD
Azobenzene (aq)	ug/l	3 28	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD
Benzo (g,h,i) perylene Benzo(a)anthracene	ug/l ug/l	28	0	None > LOD	None > LOD	None > LOD
Benzo(a)pyrene	ug/l	28	0	None > LOD	None > LOD	None > LOD
Benzo(b)fluoranthene	ug/l	28	0	None > LOD	None > LOD	None > LOD
Benzo(k)fluoranthene	ug/l	28	0	None > LOD	None > LOD	None > LOD
Bis(2-chloroethoxy)methane bis(2-Chloroethoxy)methane (aq)	ug/l ug/l	28 3	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD
Bis(2-chloroethyl)ether	ug/l	28	0	None > LOD	None > LOD	None > LOD
bis(2-Chloroethyl)ether (aq)	ug/l	3	0	None > LOD	None > LOD	None > LOD
Bis(2-chloroisopropyl)ether	ug/l	28	0	None > LOD	None > LOD	None > LOD
bis(2-Ethylhexyl) phthalate (aq) Bis(2-ethylhexyl)phthalate	ug/l ug/l	3 28	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD
Bromobenzene	ug/l	29	0	None > LOD	None > LOD	None > LOD
Bromochloromethane	ug/l	29	0	None > LOD	None > LOD	None > LOD
Bromodichloromethane	ug/l	29	0	None > LOD	None > LOD	None > LOD
Bromoform Bromomethane	ug/l ug/l	3 29	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD
Butylbenzyl phthalate (aq)	ug/I	3	0	None > LOD	None > LOD	None > LOD
Butylbenzylphthalate	ug/l	28	0	None > LOD	None > LOD	None > LOD
Carbazole	ug/l	28	0	None > LOD	None > LOD	None > LOD
Carbazole (aq)	ug/l	3	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD
Carbon disulphide Carbontetrachloride	ug/l ug/l	3	0	None > LOD None > LOD	None > LOD	None > LOD
Chlorobenzene	ug/I	29	0	None > LOD	None > LOD	None > LOD
Chloroethane	ug/l	29	0	None > LOD	None > LOD	None > LOD
Chloroethene	ug/l	28	0	None > LOD	None > LOD	None > LOD
Chloroform Chloromethane	ug/l ug/l	29 29	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD
Chrysene	ug/I	28	0	None > LOD	None > LOD	None > LOD
cis-1,2-Dichloroethene	ug/l	29	0	None > LOD	None > LOD	None > LOD
cis-1,3-Dichloropropene	ug/l	29	0	None > LOD	None > LOD	None > LOD
Dibenz[A,H]anthracene Dibenzofuran	ug/l ug/l	28 28	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD
Dibenzofuran (aq)	ug/I	3	0	None > LOD	None > LOD	None > LOD
Dibromochloromethane	ug/l	29	0	None > LOD	None > LOD	None > LOD
Dibromomethane	ug/l	29	0	None > LOD	None > LOD	None > LOD
Dichlorodifluoromethane	ug/l	29	0	None > LOD	None > LOD	None > LOD
Dichloromethane Diethyl phthalate (aq)	ug/l ug/l	3	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD
Diethylphthalate	ug/l	28	0	None > LOD	None > LOD	None > LOD
Dimethyl phthalate (aq)	ug/l	3	0	None > LOD	None > LOD	None > LOD
Dimethylphthalate	ug/l	28	0	None > LOD	None > LOD	None > LOD
Di-N-Butyl Phthalate Di-N-Octyl Phthalate	ug/l ug/l	28 28	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD
Fluoranthene	ug/l	28	0	None > LOD	None > LOD	None > LOD
Fluorene	ug/l	28	0	None > LOD	None > LOD	None > LOD
Hexachlorobenzene (aq)	ug/l	3	0	None > LOD	None > LOD	None > LOD
Hexachlorobenzene (HCB) Hexachlorobutadiene	ug/l ug/l	28 3	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD
Hexachlorobutadiene (aq)	ug/l	3	0	None > LOD	None > LOD	None > LOD
Hexachlorobutadiene (HCBD)	ug/l	28	0	None > LOD	None > LOD	None > LOD
Hexachlorocyclopentadiene	ug/l	28	0	None > LOD	None > LOD	None > LOD
Hexachlorocyclopentadiene (aq) Hexachloroethane	ug/l ug/l	3 28	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD
Hexachloroethane (aq)	ug/I	3	0	None > LOD	None > LOD	None > LOD
Indeno(1,2,3-cd)pyrene	ug/l	28	0	None > LOD	None > LOD	None > LOD
Isophorone	ug/l	28	0	None > LOD	None > LOD	None > LOD
Isopropylbenzene	ug/l	29 28	0	None > LOD None > LOD	None > LOD	None > LOD
Methyl tert-butyl ether (MTBE) Methyl tertiary butyl ether (MTBE)	ug/l ug/l	19	0	None > LOD	None > LOD None > LOD	None > LOD None > LOD
Naphthalene	ug/l	29	0	None > LOD	None > LOD	None > LOD
n-Butylbenzene	ug/l	29	0	None > LOD	None > LOD	None > LOD
n-Dibutyl phthalate (aq)	ug/l	3	0	None > LOD	None > LOD None > LOD	None > LOD
n-Dioctyl phthalate (aq) Nitrobenzene	ug/l ug/l	3 28	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD
Nitrobenzene (aq)	ug/l	3	0	None > LOD	None > LOD	None > LOD
n-nitrosodimethylamine	ug/l	28	0	None > LOD	None > LOD	None > LOD
N-Nitroso-Di-N-Propylamine	ug/l	28	0	None > LOD	None > LOD	None > LOD
n-Nitroso-n-dipropylamine (aq) n-propylbenzene	ug/l ug/l	3 28	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD
Pah,Total	ug/l	28	0	None > LOD	None > LOD	None > LOD
Pcb-101 2,2',4,5,5' - Pentachlorobiphenyl	ug/l	28	0	None > LOD	None > LOD	None > LOD
Pcb-118 2,3',4,4',5 - Pentachlorobiphenyl	ug/l	28	0	None > LOD	None > LOD	None > LOD
Pcb-138 2,2',3,4,4',5' - Hexachlorobiphenyl Pcb-153 2,2',4,4',5,5' - Hexachlorobiphenyl	ug/l ug/l	28 28	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD
Pcb-180 2,2',3,4,4',5,5' - Heptachlorobiphenyl	ug/I	28	0	None > LOD	None > LOD	None > LOD
Pcb-28 2,4,4' - Trichlororbiphenyl	ug/l	28	0	None > LOD	None > LOD	None > LOD
Pcb-52 2,2',5,5' - Tetrachlorobiphenyl	ug/l	28	0	None > LOD	None > LOD	None > LOD
Pentachlorophenol (aq) Pentachlorophenol (PCP)	ug/l	3 28	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD
Phenanthrene	ug/l ug/l	28	0	None > LOD	None > LOD	None > LOD
Phenol	ug/l	28	0	None > LOD	None > LOD	None > LOD
Phenol (aq)	ug/l	3	0	None > LOD	None > LOD	None > LOD
Propylbenzene	ug/l	3	0	None > LOD	None > LOD	None > LOD
Pyrene sec-Butylbenzene	ug/l ug/l	28 29	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD
Styrene	ug/I	29	0	None > LOD	None > LOD	None > LOD
tert-Amyl methyl ether (TAME)	ug/l	3	0	None > LOD	None > LOD	None > LOD
tert-Butylbenzene	ug/l	29	0	None > LOD	None > LOD	None > LOD
Tetrachloroethene	ug/l	29	0	None > LOD	None > LOD	None > LOD
Totrachloromothana (Cashan Taran Gillaria)	ug/l	28	0	None > LOD None > LOD	None > LOD None > LOD	None > LOD None > LOD
Tetrachloromethane (Carbon Tetra Chloride) trans-1,2-Dichloroethene	ug/l	29				
Tetrachloromethane (Carbon Tetra Chloride) trans-1,2-Dichloroethene trans-1,3-Dichloropropene	ug/l ug/l	29 29	0	None > LOD	None > LOD	None > LOD
trans-1,2-Dichloroethene			0		None > LOD None > LOD	None > LOD None > LOD
trans-1,2-Dichloroethene trans-1,3-Dichloropropene	ug/l	29	0	None > LOD		

Parameter	Unit	EQS	No.	Above EQS %'age of Analyses	Additional Notes	CCW TL	No.	Nbove CCW TL %'age of Analyses	Additional Notes		Min	Max
Anthracene Azobenzene	ug/l ug/l	-							<u> </u>	I ⊦		
Azobenzene (aq)	ug/l									ΙĖ		
Benzo (g,h,i) perylene	ug/l									ΙL		
Benzo(a)anthracene	ug/l	-				-				l ⊦		
Benzo(a)pyrene Benzo(b)fluoranthene	ug/l ug/l	 								┨┠		
Benzo(k)fluoranthene	ug/l		1							╽┝		
Bis(2-chloroethoxy)methane	ug/l									ΙC		
bis(2-Chloroethoxy)methane (aq)	ug/l									ΙL		
Bis(2-chloroethyl)ether	ug/l									I ⊦		
bis(2-Chloroethyl)ether (aq) Bis(2-chloroisopropyl)ether	ug/l ug/l	 	1			 				l ⊦		
bis(2-Ethylhexyl) phthalate (aq)	ug/I	 	1							l ⊦		
Bis(2-ethylhexyl)phthalate	ug/l		i e							╽┝		
Bromobenzene	ug/l									ΙC		
Bromochloromethane	ug/l									ΙL		
Bromodichloromethane Bromoform	ug/l	<u> </u>	ļ			 				I ⊦		
Bromomethane	ug/l ug/l	1	-							l ⊦		
Butylbenzyl phthalate (aq)	ug/l		1							╽┝		
Butylbenzylphthalate	ug/l									ΙĖ		
Carbazole	ug/l									ΙL		
Carbazole (aq)	ug/l	├				<u> </u>				۱L		
Carbon disulphide Carbontetrachloride	ug/l ug/l	 	-	-		\vdash			-	۱ŀ		
Chlorobenzene	ug/I ug/I	 				l				۱ŀ		
Chloroethane	ug/l	i –				l						
Chloroethene	ug/l									ΙĹ		
Chloroform	ug/l									ΙĹ		
Chloromethane	ug/l	 	-			 				۱ŀ		
Chrysene cis-1,2-Dichloroethene	ug/l ug/l	 	 	 		!			 	۱ŀ	-	
cis-1,3-Dichloropropene	ug/I	t -				i				1 H		
Dibenz[A,H]anthracene	ug/l									Ιt		
Dibenzofuran	ug/l									ΙL		
Dibenzofuran (aq)	ug/l	├								۱L		
Dibromochloromethane Dibromomethane	ug/l	 	-	 		\vdash			 	۱ŀ		
Dibromomethane Dichlorodifluoromethane	ug/l ug/l	 	-	 	 	 			 	l ⊦		
Dichloromethane	ug/I		1							╽┝		
Diethyl phthalate (aq)	ug/l									ΙĖ		
Diethylphthalate	ug/l									ΙL		
Dimethyl phthalate (aq)	ug/l	ļ								I L		
Dimethylphthalate Di-N-Butyl Phthalate	ug/l	<u> </u>								l ⊦		
Di-N-Butyl Prithalate Di-N-Octyl Phthalate	ug/l ug/l	1	-							l ⊦		
Fluoranthene	ug/l	1	i e							╽┝		
Fluorene	ug/l									ΙL		
Hexachlorobenzene (aq)	ug/l	ļ								I L		
Hexachlorobenzene (HCB) Hexachlorobutadiene	ug/l	<u> </u>	ļ			 				I ⊦		
Hexachlorobutadiene (aq)	ug/l ug/l	-								l ⊦		
Hexachlorobutadiene (HCBD)	ug/l		i e							╽┝		
Hexachlorocyclopentadiene	ug/l									ΙC		
Hexachlorocyclopentadiene (aq)	ug/l	ļ								I L		
Hexachloroethane Hexachloroethane (aq)	ug/l ug/l	<u> </u>								I ⊦		
Indeno(1,2,3-cd)pyrene	ug/I	 	1			 				l ⊦		
Isophorone	ug/I	t -				i				1 H		
Isopropylbenzene	ug/l									ΙĖ		
Methyl tert-butyl ether (MTBE)	ug/l									ΙĹ		
Methyl tertiary butyl ether (MTBE)	ug/l	├	 			 				l ⊦		
Naphthalene n-Butylbenzene	ug/l ug/l	 	 	 		!				۱ŀ	-	
n-Dibutyl phthalate (aq)	ug/I	t	 	-		l				۱ŀ		
n-Dioctyl phthalate (aq)	ug/l											
Nitrobenzene	ug/l									ΙĽ		
Nitrobenzene (aq) n-nitrosodimethylamine	ug/l	├	<u> </u>			 				۱ŀ		
n-nitrosodimethylamine N-Nitroso-Di-N-Propylamine	ug/l ug/l	 	 	 		!				۱ŀ	-	
n-Nitroso-n-dipropylamine (aq)	ug/I	t	 	 		1				1 H		
n-propylbenzene	ug/l				<u> </u>					Ιŀ		
Pah,Total	ug/l									ΙŒ		
Pcb-101 2,2',4,5,5' - Pentachlorobiphenyl	ug/l									ΙĹ		
Pcb-118 2,3',4,4',5 - Pentachlorobiphenyl	ug/l	-		 		 				l ⊦		
Pcb-138 2,2',3,4,4',5' - Hexachlorobiphenyl Pcb-153 2,2',4,4',5,5' - Hexachlorobiphenyl	ug/l ug/l	 	 	—		 				۱ŀ		
Pcb-133 2,2 ,4,4 ,5,5 - Hexacrilorobiphe Pcb-180 2,2',3,4,4',5,5' - Heptachlorobiphe	ug/I	t	 	 		1				1 H		
Pcb-28 2,4,4' - Trichlororbiphenyl	ug/l									l þ		
Pcb-52 2,2',5,5' - Tetrachlorobiphenyl	ug/l									ΙĽ		
Pentachlorophenol (aq)	ug/l	<u> </u>							\vdash	ΙĹ		
Pentachlorophenol (PCP)	ug/l	-		 		 				l ⊦		
Phenanthrene Phenol	ug/l ug/l	 	-	 	 	 			 	l ⊦		
Phenol (aq)	ug/I	t —								1 H		
Propylbenzene	ug/l									l þ		
Pyrene	ug/l									ΙĹ		
sec-Butylbenzene	ug/l								\Box	ΙĹ		
Styrene	ug/l	├	 			 				l ⊦		
ert-Amyl methyl ether (TAME) ert-Butylbenzene	ug/l ug/l	 	 	 		!				۱ŀ	-	
Fetrachloroethene	ug/I	t	 	 		1				1 H		
etrachloromethane (Carbon Tetra Chlorid	ug/l				<u> </u>					Ιŀ		
trans-1,2-Dichloroethene	ug/l									ון		
trans-1,3-Dichloropropene	ug/l	\vdash								ΙL		
Tribromomethane	ug/l	├	<u> </u>			_				۱ŀ		
Trichloroethene Trichlorofluoromethane	ug/l ug/l	 	 	-		 			 	۱ŀ		
Vinyl chloride	ug/I	 	 	 	l	-	 		 	Ιŀ		

M4CAN Leachate Analysis Results & Screening Assessment Outside CL Sites - chainage +11,850 to +19,650 31/07/2015

Sample Reference		Scroo	ning Criteria	ia BH503				
Specimen Depth		Screen	illig Criteria	0.5 - 0.7				
Level				5.65				
Sample Type	Units			ES				
Geology Code		EQS	DWS	MG				
Cluster Code				2015 GI				
				2015 GI				
2:1 Leachate								
Arsenic Dissolved	ug/l	50	10	1.6				
Boron Dissolved Cadmium Dissolved	ug/l	2000 0.15	1000	35 0.96				
Chromium Dissolved	ug/l ug/l	0.15	50	12				
Copper Dissolved	ug/l	10	2000	<1				
Mercury Dissolved	ug/l	0.07	1	<0.5				
Nickel Dissolved	ug/l	4	20	1.2				
Lead Dissolved	ug/l	1.2	10	<1				
Selenium Dissolved	ug/l		10	1.7				
Zinc Dissolved	ug/l	75		1.9				
Total Cyanide	mg/l	0.001	0.05	< 0.05				
Cyanide Free	mg/l			< 0.05				
pH Units	pH units	6-9	6.5-10	8.4				
Organics Phenols	mg/l	0.0077		<0.03				
BTEX	mg/i	0.0077		<0.03				
Benzene	ug/l	10	1	<1				
Toluene	ug/l	50		<1				
Ethylbenzene	ug/l	20		<1				
m,p xylenes	ug/l	30		<1				
O-Xylene	ug/l	30		<1				
TPH								
Aliphatics >C5-C6	ug/l			<0.1				
Aliphatics >C6-C8	ug/l			< 0.1				
Aliphatics >C8-C10	ug/l			<0.1				
Aliphatics >C10-C12	ug/l			<0.1				
Aliphatics >C12-C16	ug/l			<0.1				
Aliphatics >C16-C21 Aliphatics >C21-C35	ug/l			<0.1				
Aliphatics >C21-C35	ug/l ug/l			<0.1				
Aromatics >C5-C7	ug/l			<0.1				
Aromatics > C7-C8	ug/l			<0.1				
Aromatics >C8-C10	ug/l			<0.1				
Aromatics >C10-C12	ug/l			< 0.1				
Aromatics >C12-C16	ug/l			<0.1				
Aromatics >C16-C21	ug/l			< 0.1				
Aromatics >C21-C35	ug/l			<0.1				
Aromatics >C35-44	ug/l			<0.1				
Total Aliphatic TPH	ug/l			<5				
Total Aromatic TPH Total petroleum hydrocarbons	ug/l			<5 <10				
PAH PAH	ug/l			110				
Acenaphthene	ug/l			<0.1				
Acenaphthylene	ug/l			<0.1				
Anthracene	ug/l	0.1		<0.1				
Benz(a)anthracene	ug/l			<0.1				
Benzo(a)pyrene	ug/l	0.00017	0.01	<0.1				
Benzo(b)fluoranthene	ug/l	0.017	0.1	<0.1				
Benzo(ghi)perylene	ug/l	0.0082	0.1	<0.1				
Benzo(k)fluoranthene	ug/l	0.017	0.1	<0.1				
Chrysene Dibenzo(ah)anthracene	ug/l			<0.1 <0.1				
Dibenzo(ah)anthracene Fluoranthene	ug/l ug/l	0.0063		<0.1				
Fluorene	ug/I	0.0003		<0.1				
Indeno(123cd)pyrene	ug/I	N/A	0.1	<0.1				
Naphthalene	ug/l	2	0.1	<0.1				
Phenanthrene	ug/l			<0.1				
Pyrene	ug/l			<0.1				
PAH 16 Total	ug/l			<2				

Screening Values & Assessment

EQS	Environmental Quality Standards
DWS	Drinking Water Standard
	Exceeds EQS
х	Exceeds DWS
x	Laboratory detection level higher than screening criterion

Notes
EQS calcium carbonate 100 - 150mg/l for heavy metals: chromium, copper, lead, nickel and zinc
IS denotes Insufficient Sample
NDP denotes no determination possible
Environmental Quality Standards (EQS)
UK Drinking Water Standards (DWS)

No. Analyses	No. Analyses	Maximum	Minimum	Location & Depth of Maximum	No. Data	No. Data
No. Analyses	Above LOD	Maximum	Minimum	Concentration	Exceeding EQS	Exceeding DWS
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	0
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	0
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	1	0
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		0
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	0
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	0
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	0
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	0
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		0
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	0
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	0
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	U	0
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	0
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		
-	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		
1	0	None > LOD None > LOD	None > LOD None > LOD	BH503 @ 0.5 - 0.7		
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7 BH503 @ 0.5 - 0.7		
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		1
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		1
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		1
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		1
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	-	
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	0
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	0
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	0
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	0
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	-	_
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	-	
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	0
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	0	_
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7	-	
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		
1	0	None > LOD	None > LOD	BH503 @ 0.5 - 0.7		

M4CAN Leachate Analysis Results & Screening Assessment Outside CL Sites - chainage +19,650 to +24,000 31/07/2015

Sample Reference		screening	g Criteria	BH543				
Specimen Depth				0.8 - 1				
Level	_			27.55				
Sample Type	Units			ES				
Geology Code	Oilles	EQS	DWS	CLAY/MG?				
Cluster Code				2015 GI				
2:1 Leachate								
Arsenic Dissolved	ug/l	50	10	<1				
Boron Dissolved	ug/l	2000	1000	<1				
Cadmium Dissolved	ug/l	0.15	5	<0.08				
Chromium Dissolved	ug/l		50	<1				
Copper Dissolved	ug/l	10	2000	1.3				
Mercury Dissolved	ug/l	0.07	1	<0.5				
Nickel Dissolved	ug/l	4	20	1.7				
Lead Dissolved	ug/l	1.2	10	<1				
Selenium Dissolved	ug/l		10	1.4				
Zinc Dissolved	ug/l	75		5				
Total Cyanide	mg/l	0.001	0.05	<0.05				
Cyanide Free	mg/l			<0.05				
pH Units	pH units	6-9	6.5-10	8.6				
Organics								
Phenols	mg/l	0.0077		< 0.03				
BTEX								
Benzene	ug/l	10	1	<1				
Toluene	ug/l	50		<1				
Ethylbenzene	ug/l	20		<1				
m,p xylenes	ug/l	30		<1				
O-Xylene	ug/l	30		<1				
TPH								
Aliphatics >C5-C6	ug/l			<0.1				
Aliphatics >C6-C8	ug/l			< 0.1				
Aliphatics >C8-C10	ug/l			<0.1				
Aliphatics >C10-C12	ug/l			<0.1				
Aliphatics >C12-C16	ug/l			< 0.1				
Aliphatics >C16-C21	ug/l			<0.1				
Aliphatics >C21-C35	ug/l			< 0.1				
Aliphatics >C35-44	ug/l			< 0.1				
Aromatics >C5-C7	ug/l			< 0.1				
Aromatics >C7-C8	ug/l			<0.1				
Aromatics >C8-C10	ug/l			< 0.1				
Aromatics >C10-C12	ug/l			< 0.1				
Aromatics >C12-C16	ug/l			<0.1				
Aromatics >C16-C21	ug/l			< 0.1				
Aromatics >C21-C35	ug/l			<0.1				
Aromatics >C35-44	ug/l			<0.1				
Total Aliphatic TPH	ug/l			<5				
Total Aromatic TPH	ug/l			<5				
Total petroleum hydrocarbons	ug/l			<10				
PAH								
Acenaphthene	ug/l			<0.1				
Acenaphthylene	ug/l			<0.1				
Anthracene	ug/l	0.1		<0.1				
Benz(a)anthracene	ug/l			<0.1				
Benzo(a)pyrene	ug/l	0.00017	0.01	<0.1				
Benzo(b)fluoranthene	ug/l	0.017	0.1	<0.1				
Benzo(ghi)perylene	ug/l	0.0082	0.1	<0.1				
Benzo(k)fluoranthene	ug/l	0.017	0.1	<0.1				
Chrysene	ug/l			<0.1				
Dibenzo(ah)anthracene	ug/l			<0.1				
Fluoranthene	ug/l	0.0063		<0.1				
Fluorene	ug/l			<0.1				
Indeno(123cd)pyrene	ug/l	N/A	0.1	<0.1				
Naphthalene	ug/l	2		<0.1				
Phenanthrene	ug/l			<0.1				
Pyrene	ug/l			<0.1				
PAH 16 Total	ug/l			<2				

Screening Values & Assessment

ı	EQS	Environmental Quality Standards
ı	DWS	Drinking Water Standard
		Exceeds EQS
	х	Exceeds DWS
	X	Laboratory detection level higher than screening criterion

Notes

EQS calcium carbonate 100 - 150mg/l for heavy metals: chromium, copper, lead, nickel and zinc Is denotes Insufficient Sample
NDP denotes no determination possible
Environmental Quality Standards (EQS)
UK Drinking Water Standards (DWS)

No. Analyses	No. Analyses Above LOD	Maximum	Minimum	Location & Depth of Maximum Concentration	No. Data Exceeding EQS	No. Data Exceeding DWS
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	0
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	0
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	0
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		0
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	0
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	0
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	0
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	0
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		0
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	0
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	0
					-	
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	0
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	
		·				
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD None > LOD	None > LOD None > LOD	BH543 @ 0.8 - 1 BH543 @ 0.8 - 1		
	0	None > LOD		BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	0
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	0
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	0
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	0
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1		
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	0
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	0	
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	-	-
1	0	None > LOD	None > LOD	BH543 @ 0.8 - 1	1	-
1	U	None > LOD	None > LOD	BH543 @ 0.8 - 1		

Annex E

Summary Risk Matrix

Summary of Risks for each Potential Area of Contamination

				1	1			1		1			1		1	1				1		1		1		
Potential contamination source area	CL1	CL2	CL3	CL4	CLS	CL6	CL8	CL9	CL10	CL13	CL14	CL15	CL17	CL18	CL22 (benzene pipeline)	CL26 Lagoons	CL26 Reedbeds (MRA)	CL27	CL29	CL30	CL32	CL33	CL35	CL38	CL39	CL41
Risk during construction requiring mitigation																										
Ingestion / dermal contact / inhalation of contaminated dusts and soils by C.workers	n/a	L*	L+	M to L*	L*	L*	L*	VL*	VL*	м*	м*	м*	н*	L*	L * (M *)	м*	м*	м*	L*	м*	м*	м*	M to L*	V L *	м*	L*
Inhalation of asbestos fibres by construction workers	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	н*	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ingestion / dermal contact / inhalation of contaminated dusts and soils by off site public	n/a	VL*	V L *	L*	VL*	L.	n/a	n/a	VL*	n/a	VL*	L*	н*	VL*	V L * (M to L*)	V L *	VL*	L*	VL*	M to L*	L*	L*	M to L*	VL*	L*	L*
Inhalation of ground gas / vapours by C. workers from MG material	n/a	VL*	L*	M to L*	n/a	VL*	VL*	VL*	n/a	н*	м*	м*	м*	L*	L * (H *)	м*	L.	L*	V L *	м*	м*	м*	M to L*	V L *	м*	n/a
Inhalation of ground gas / vapours by off site public from MG material	n/a	n/a	V L *	L*	n/a	VL*	n/a	n/a	n/a	n/a	VL*	VL*	L*	n/a	V L * (H *)	V L *	VL*	L*	V L *	M to L *	L*	L*	M to L*	V L *	L*	n/a
Contaminated surface runoff to surface water	n/a	n/a	n/a	M to L*	VL*	L.	VL*	L*	L*	м*	L*	L*	м*	n/a	M * (M*)	н*	н*	м*	n/a	n/a	n/a	n/a	M to L*	n/a	n/a	VL*
Contaminants leaching from MG into surface water	n/a	n/a	n/a	M to L*	V L and L *	м*	VL*	L*	n/a	n/a	n/a	n/a	м*	L*	n/a	n/a	м*	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	M to L*
Perched water or aquifer groundwater entering surfacewater	n/a	n/a	n/a	n/a	n/a	м*	V L *	L*	V L *	м*	L*	M to L*	м*	VL*	M * (M*)	н*	м*	M to L *	n/a	n/a	n/a	n/a	M to L*	n/a	n/a	n/a
Contaminants leaching from MG into deep aquifier	n/a	M to L*	V L *	n/a	n/a	м*	n/a	n/a	VL*	м*	M to L*	м*	м*	L*	M * (M to L*)	L*	м*	M to L *	V L *	M to L *	м*	м*	M to L*	V L *	м*	L*
Contaminants leaching from MG via band drains or piling	n/a	n/a	n/a	n/a	n/a	м*	VL*	L*	VL*	м*	M to L*	м*	м*	n/a	M * (M to L*)	n/a	м*	M to L *	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Inhalation of soil gas / explosion for C. workers from PEAT	n/a	n/a	n/a	n/a	n/a	н•	n/a	м	n/a	M to L*	M to L*	м*	м*	M to L*	м •	м*	м*	м*	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Inhalation of soil gas / explosion for off site public from PEAT	n/a	n/a	n/a	n/a	n/a	M to L*	n/a	n/a	n/a	n/a	M to L*	M to L*	M to L *	n/a	M to L*	M to L*	M to L*	M to L*	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Band drain / pile pathway causing GW to contaminate surface water	n/a	n/a	n/a	n/a	n/a	н•	L*	L*	м *	n/a	V L *	VL*	м*	L*	м *	M to L*	н*	M to L *	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Contaminated Perched GW ingestion / dermal/ inhalation of HC varpours by C.workers	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	L*	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Dewatering pathway causing GW to contaminate surface water	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	м*	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Risk during operation requiring mitigation																										
Ingestion / dermal contact / inhalation of contaminated dusts and soils by MW	L*	VL*	n/a	L*	VL*	VL*	V L *	VL*	VL*	L*	V L *	L*	м*	n/a	V L *	V L *	VL*	VL*	n/a	V L *	VL*	L*	L*	V L *	n/a	VL*
Inhalation of asbestos fibres by maintenance workers	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	M to L*	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ingestion / dermal contact / inhalation of contaminated dusts and soils by motorway users	V L *	VL*	n/a	V L *	V L *	VL*	V L *	VL*	V L *	V L *	V L *	VL*	L*	n/a	V L *	V L *	VL*	VL*	n/a	V L *	n/a	VL*	L.	V L *	n/a	V L *
Ingestion / dermal contact / inhalation of contaminated dusts and soils by off site general public	V L *	VL*	n/a	V L *	VL*	n/a	n/a	n/a	VL*	V L *	V L *	VL*	L*	n/a	V L *	V L *	VL*	V L *	n/a	V L *	n/a	VL*	n/a	V L *	n/a	V L *
Inhalation of ground gas / vapours by MW by MG material	L*	VL*	n/a	L*	n/a	VL*	V L *	V L *	n/a	L*	V L *	VL*	м*	n/a	V L *	V L *	VL*	V L *	n/a	V L *	V L *	м*	L*	n/a	L*	n/a
Inhalation of ground gas / vapours by off site workers / public / motorway users by MG material	VL*	VL*	n/a	VL*	n/a	VL*	VL*	VL*	n/a	VL*	VL*	VL*	VL*	n/a	VL*	V L *	M to L * (M *)	VL*	n/a	VL*	VL*	L*	L*	VL*	L*	n/a
Contaminated run-ff to surface water	L*	n/a	n/a	L*	n/a	n/a	n/a	n/a	n/a	L*	n/a	n/a	n/a	n/a	L*	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Contaminants leaching from MG into surface water	n/a	n/a	n/a	L*	n/a	n/a	n/a	n/a	n/a	n/a	n/a	M to L*	м*	n/a	n/a	n/a	n/a	м*	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Contaminants leaching from MG into deep aquifer	VL*	M to L*	n/a	n/a	n/a	n/a	n/a	L*	VL*	VL*	M to L*	м*	M to L *	L*	M to L*	L*	м*	M to L *	V L *	M to L*	м*	м*	M to L*	VL*	м*	M to L*
Contaminants leaching from MG via band drains or piling	n/a	n/a	n/a	n/a	n/a	м*	V L *	n/a	V L *	VL*	V L *	м*	M to L *	L*	M to L *	n/a	м*	M to L *	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Perched water or aquifer groundwater entering surfacewater	n/a	n/a	n/a	n/a	n/a	M to L*	VL*	L*	м*	м*	VL*	n/a	м*	L*	M to L*	L*	м*	n/a	n/a	n/a	n/a	n/a	M to L*	n/a	n/a	L*
Band drain pathway causing GW to contaminate surface water	n/a	n/a	n/a	n/a	n/a	н•	L*	L*	м*	n/a	VL*	VL*	м*	L*	м*	M to L*	н*	н•	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Inhalation of soil gas / explosion for M. workers from PEAT	n/a	n/a	n/a	n/a	n/a	м*	n/a	м*	n/a	M to L*	M to L*	M to L*	M to L *	n/a	M to L*	M to L*	M to L*	M to L*	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Inhalation of soil gas / explosion for motorway users from PEAT	n/a	n/a	n/a	n/a	n/a	м*	n/a	M to L*	n/a	M to L*	M to L*	M to L*	M to L *	n/a	M to L*	M to L*	M to L*	M to L*	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Inhalation of soil gas / explosion for off site public from PEAT	n/a	n/a	n/a	n/a	n/a	M to L*	n/a	n/a	n/a	n/a	M to L*	M to L*	M to L *	n/a	M to L *	M to L*	M to L*	M to L*	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
				•					•		•	-			•					•		•				-

* Risk level to be updated following findings of supplementary ground investigation.

*Most level to be updated following Inf
Kery
C. worker
C. worker
Construction worker
MG Made ground
MW Mainenance worker
H High
M Moderate
L Low
VL Very Low