

Our Ref: RL/12032
Your Ref: Ruth Howells
Contact:

Terra Firma (Wales) Ltd.
Consulting Geotechnical & Geo-Environmental Engineers
Site Investigation Contractors

5 Deryn Court, Wharfedale Road,
Pentwyn, Cardiff CF23 7HA
Tel: 029 2073 5354 Fax: 029 2073 5433
Email: info@terrafirmawales.co.uk
www.terrafirmawales.co.uk

6th August 2015

Riversee Limited
Orchard House
21 Castle Rise
Llanvaches
Newport
NP26 3BS

For the attention of Mr Darran Watts

Dear Darran

CHEMICAL TESTING: STOCKPILED MATERIAL INTENDED AS ENGINEERED FILL – LOWER HALF OF STOCKPILE

1.0 Introduction

Riversee Limited is proposing to undertake earthworks on a proposed development site off Herbert Road, Newport, where the site is to be raised by up to 1.6m, taking it to a level of 8.8m AOD.

Riversee Limited currently has a large stockpile intended for use as engineered fill. The stockpile is an estimated 23,000m³ in volume.

Terra Firma (Wales) Limited was commissioned by Riversee Limited to undertake sampling and chemical testing of this material to assess its suitability for use.

The upper half of the stockpile (9000m³) has previously been sampled and tested.

This letter details testing of the remaining 14,000m³ or material. The lower half of the stockpile is up to 3m in thickness and nineteen trial holes were excavated through the stockpile to obtain samples from varying depths. Sampling was carried out in two stages, on the 8th and 13th July 2015.

This has been carried out in accordance with Terra Firma (Wales) Limited's Remediation Strategy prepared for the site, which specifies that for each 250m³ (per source) that 1 representative sample be taken for screening. This strategy was agreed with Newport City Council. The stockpile is made up of several indistinguishable sources, and has therefore been treated as a singular source.

Fifty-six samples were taken in total.

2.0 Soil Test Results

The soils were submitted to the laboratories of Derwentside Environmental Testing Services for testing. All results are summarised in the following tables, and have been compared to regulatory residential soil guidelines (without plant uptake).

Chemical test certificates can be enclosed.

Table 2.1 Summary of Soil Chemical Test Results Standard Suite					
Substance	Threshold (mg/kg)	Source	Measured Concentrations of Tested Substances (mg/kg)		Number of Exceedences
			Minimum	Maximum	
Arsenic	32	CLEA SGV	4.2	23	0
Cadmium	10	CLEA SGV	0.3	3.0	0
Chromium III	910	CIEH C4UL	16	130	0
Chromium VI	6.0	CIEH C4UL	<1.0	<1.0	0
Copper	7100	CIEH C4UL	11	65	0
Lead	310	C4SL	20	330	1
Mercury	170	CLEA SGV	<0.05	0.66	0
Nickel	130	CLEA SGV	14	44	0
Selenium	350	CLEA SGV	<0.5	1.0	0
Zinc	40000	CIEH C4UL	52	190	0
Cyanide	8.0	CLEA SGV	<0.1	0.5	0
Organic matter	-	-	0.5	10	-
Sulphate	2400	BRE	600	4100	5
pH	-	-	7.6	11.5	-
Phenol	420	CLEA SGV	<0.3	0.8	0
Total PAH	-	CLEA SGV	<0.1	11	*

Notes:

- * See speciated PAH results (see Table 2.2)

2.0 Soil Test Results (Continued)

Table 2.2 Summary of Soil Test Results Speciated PAH					
Substance	Threshold (mg/kg)	Source	Measured Concentrations of Tested Substances (mg/kg)		Number of Exceedences
			Minimum	Maximum	
Naphthalene	2.3	CIEH C4UL	<0.03	1.3	0
Acenaphthylene	2900	CIEH C4UL	<0.03	<0.03	0
Acenaphthene	3000	CIEH C4UL	<0.03	0.22	0
Fluorene	2800	CIEH C4UL	<0.03	0.18	0
Phenanthrene	1300	CIEH C4UL	<0.03	1.4	0
Anthracene	31000	CIEH C4UL	<0.03	0.34	0
Fluoranthene	1500	CIEH C4UL	<0.03	2.1	0
Pyrene	3700	CIEH C4UL	<0.03	1.8	0
Benzo(a)anthracene	11	CIEH C4UL	<0.03	0.82	0
Chrysene	30	CIEH C4UL	<0.03	0.92	0
Benzo(b)fluoranthene	3.9	CIEH C4UL	<0.03	0.94	0
Benzo(k)fluoranthene	110	CIEH C4UL	<0.03	0.31	0
Benzo(a)pyrene	3.2	CIEH C4UL	<0.03	0.69	0
Indeno(123cd)pyrene	45	CIEH C4UL	<0.03	0.32	0
Dibenzo(ah)anthracene	0.31	CIEH C4UL	<0.03	0.1	0
Benzo(ghi)perylene	360	CIEH C4UL	<0.03	0.37	0

Notes:

- GAC based on 1% soil organic matter content (SOM)

2.0 Soil Test Results (Continued)

Table 2.3 Summary of Soil Chemical Test Results Petroleum Hydrocarbons					
Substance	Threshold (mg/kg)	Source	Measured Concentrations of Tested Substances (mg/kg)		Number of exceedences
			Minimum	Maximum	
<u>PH- Aliphatic</u>					
>C5-C6	42	CIEH C4UL	<0.01	0.22	0
>C6-C8	100	CIEH C4UL	<0.01	0.26	0
>C8-C10	27	CIEH C4UL	<0.01	0.14	0
>C10-C12	130	CIEH C4UL	<1.5	1.8	0
>C12-C16	1100	CIEH C4UL	<1.2	8.8	0
>C16-C21^	65000	CIEH C4UL	<1.5	13	0
>C21-C35^	65000	CIEH C4UL	<3.4	140	0
<u>PH- Aromatic</u>					
>C5-C7	370	CIEH C4UL	<0.01	0.01	0
>C7-C8	860	CIEH C4UL	<0.01	0.03	0
>C8-C10	47	CIEH C4UL	<0.01	0.15	0
>C10-C12	250	CIEH C4UL	<0.9	<0.9	0
>C12-C16	1800	CIEH C4UL	<0.5	3.1	0
>C16-C21	1900	CIEH C4UL	<0.6	22	0
>C21-C35	1900	CIEH C4UL	<1.4	290	0

Notes:

- GAC based on 1% soil organic matter content (SOM)

2.0 Soil Test Results (Continued)

All samples were screened for asbestos. The results are as follows:

Table 2.4 Summary of Soil Chemical Test Results Asbestos			
Sample Location	Asbestos Type	Form	Total Mass in Soil (%)
TP1 1.00m	NAD	-	-
TP1 2.00m	NAD	-	-
TP1 3.00m	Chrysotile	Chrysotile present as fibre bundles	<0.001
TP2 1.00m	NAD	-	-
TP2 2.00m	Chrysotile	Chrysotile present as small fibre bundles	<0.001
TP2 2.90m	Chrysotile	Chrysotile present as fibre bundles	<0.001
TP3 0.50m	NAD	-	-
TP3 1.50m	NAD	-	-
TP3 3.50m	NAD	-	-
TP4 0.50m	Chrysotile	Chrysotile present as fibre bundles	<0.001
TP4 2.00m	Chrysotile	Chrysotile present as fibre bundles	<0.001
TP4 3.00m	Chrysotile	Chrysotile present as small fibre bundle	<0.001
TP5 1.00m	NAD	-	-
TP5 2.00m	NAD	-	-
TP5 3.00m	Chrysotile	Chrysotile present as fibre bundles	0.005
TP6 0.50m	NAD	-	-
TP6 2.00m	Chrysotile	Chrysotile present as fibre bundles	<0.001
TP6 3.00m	Chrysotile	Chrysotile present as fibre bundles	0.003
TP7 0.30m	Chrysotile	Chrysotile present as fibre bundles	<0.001
TP7 0.60m	Chrysotile	Chrysotile present as small fibre bundle	<0.001
TP7 2.00m	NAD	-	-
TP8 0.50m	NAD	-	-
TP8 2.00m	NAD	-	-
TP8 2.50m	Chrysotile	Chrysotile present as fibre bundles	<0.001
TP9 0.30m	Chrysotile Amosite	Chrysotile present as fibre bundles Amosite also present as small bundle	<0.001
TP9 1.00m	NAD	-	-
TP9 1.60m	Chrysotile	Chrysotile present as fibre bundles	0.002
TP10 0.50m	Amosite	Amosite present as small fibre bundle	<0.001
TP10 1.40m	NAD	-	-
TP10 2.20m	Chrysotile	Chrysotile present as fibre bundles	<0.001
TP11 0.50m	Chrysotile	Chrysotile present as small fibre bundle	<0.001
TP11 1.00m	NAD	-	-
TP12 1.00	NAD	none	-
TP12 2.00	Chrysotile	small bundle of Chrysotile	0.001
TP12 3.00	NAD	-	-
TP13 1.00	NAD	-	-
TP13 2.00	NAD	-	-
TP13 3.00	NAD	-	-

Table 2B (Continued) Summary of Soil Chemical Test Results Asbestos			
TP14 1.00	NAD	-	-
TP14 2.00	Chrysotile	small bundle of Chrysotile	0.001
TP14 3.00	NAD	-	-
TP15 0.30	NAD	-	-
TP15 1.00	NAD	-	-
TP15 2.20	Chrysotile	small bundle of Chrysotile	<0.001
TP16 0.50	NAD	-	-
TP16 1.50	NAD	-	-
TP16 2.50	NAD	-	-
TP17 0.50	NAD	-	-
TP17 1.50	NAD	-	-
TP17 2.50	NAD	-	-
TP18 0.50	Chrysotile	small bundle of Chrysotile	<0.001
TP18 1.50	NAD	-	-
TP18 2.50	NAD	-	-
TP19 0.50	NAD	-	-
TP19 1.50	NAD	-	-
TP19 2.50	NAD	-	-

3.0 Soil Leachate Results

All 56 samples were subject to leachate analysis in accordance with BS:EN:12457 for a standard suite, speciated PAH and petroleum hydrocarbons to ensure that the soils do not present a risk to groundwater or the River Usk.

Table 2.5 Summary of Leachate Chemical Test Results Standard Suite					
Substance	Threshold (mg/l)	Source	Measured Concentrations of Tested Substances (mg/l)		Number of Exceedences
			Minimum	Maximum	
Arsenic	0.05	WFD	0.0007	0.0075	0
Cadmium*	0.00008 – 0.00025	WFD	<0.00003	0.00047	1
Chromium III	0.0047	WFD	<0.001	0.0024	0
Chromium VI	0.0034	WFD	<0.003	<0.003	0
Copper*	0.001 – 0.028	WFD	0.0011	0.092	++
Lead	0.0072	WFD	<0.00009	0.0033	0
Mercury	0.0005	WFD	<0.00001	0.00003	0
Nickel	0.02	WFD	0.0006	0.0022	0
Selenium	0.01	DWD	0.00044	0.00067	0
Zinc*	0.008 – 0.125	WFD	<0.00125	0.0062	0
Cyanide	0.001	WFD	<0.04	<0.04	BLDL
Sulphate	250	DWD	2.0	51	0
Total Phenol	0.0077	WFD	<0.0005	0.0018	0
pH	-	-	7.1	10.7	-
Total PAH	-	-	<0.0002	0.011	-
Chloride	250	DWD	0.57	130	0

Notes:

- *Threshold dependant on hardness
- BLDL - Below Laboratory Detection Limit
- ++ 53 samples above lower threshold. Zero samples above upper threshold.

Table 2.6					
Summary of Leachate Chemical Test Results					
Speciated PAH and Petroleum Hydrocarbons					
Substance	Threshold (mg/l)	Source	Measured Concentrations of Tested Substances (mg/l)		Number of Exceedences
			Minimum	Maximum	
PAH					
Naphthalene	0.0012	WFD	<0.00001	0.004	1
Acenaphthylene	-	-	<0.00001	<0.00001	1 ALDL
Acenaphthene	-	-	<0.00001	0.00002	7 ALDL
Fluorene	-	-	<0.00001	0.0001	6 ALDL
Phenanthrene	-	-	<0.00001	0.00058	33 ALDL
Anthracene	0.0001	WFD	<0.00001	0.00002	0
Fluoranthene	0.0001	WFD	<0.00001	0.0045	6
Pyrene	-	-	<0.00001	0.0039	37 ALDL
Benzo(a)anthracene	-	-	<0.00001	0.00025	25 ALDL
Chrysene	-	-	<0.00001	0.0002	27 ALDL
Benzo(b)fluoranthene	0.00003	WFD	<0.00001	0.00025	14
Benzo(k)fluoranthene	0.00003	WFD	<0.00001	0.00002	5
Benzo(a)pyrene	0.00005	WFD	<0.00001	0.00017	6
Dibenzo(ah)anthracene	-	-	<0.00001	0.00004	6 ALDL
Benzo(ghi)perylene	0.000002	WFD	<0.00001	0.00019	22
Indeno(123cd)pyrene	0.00002	WFD	<0.00001	<0.00001	11
Petroleum Hydrocarbons					
PH- Aliphatic					
>C5-C6	-	-	<0.0001	<0.0001	BLDL
>C6-C8	-	-	<0.0001	<0.0001	BLDL
>C8-C10	-	-	<0.0001	<0.0001	1 ALDL
>C10-C12	-	-	<0.001	<0.001	BLDL
>C12-C16	-	-	<0.001	<0.001	BLDL
>C16-C21	-	-	<0.001	0.067	3 ALDL
>C21-C35	-	-	<0.001	<0.001	BLDL
PH- Aromatic					
>C5-C7	0.008*	WFD	<0.0001	<0.0001	0
>C7-C8	0.04**	WFD	<0.0001	<0.0001	0
>C8-C10	0.03***	WFD	<0.0001	<0.0001	0
>C10-C12	-	-	<0.001	<0.001	BLDL
>C12-C16	-	-	<0.001	<0.001	BLDL
>C16-C21	-	-	<0.001	0.0061	1 ALDL
>C21-C35	-	-	<0.001	<0.001	BLDL

Notes:

- BLDL - Below Laboratory Detection Limit
- ALDL – Above Laboratory Detection Limit
- * Threshold for benzene
- ** Threshold for toluene
- ***Threshold for Xylene

4.0 Conclusions

One sample, taken from TP4 (3.0m) was found to have a lead content of 330mg/kg, exceeding the threshold of 300mg/kg. However, given the depth that this soil will be buried at depth and capped with at least 1.3m of imported fill prior to residential development, the lead is not considered to pose a risk to the human health of site end users. Also, the lead was not found to be leachable to unacceptable levels.

Five samples had an elevated sulphate content. However, this would not pose a risk to human health, especially as it is to be buried at depth. The sulphate content should be taken into account when determining the class of any concrete used on site that may extend into or through the fill.

Asbestos was identified in numerous soil samples. Those substances found to exceed their detection limit are detail in Table 2.7 below.

Table 2.7 Substances Present Above Threshold Levels or Laboratory Detection Limit in Leachate				
Substance	Location	Depth Sampled in Stockpile (m)	Recorded Concentration (mg/l)	Guideline Value (mg/l)
PH Aliphatic C16-C21	TP12	1.0	0.0014	Results above laboratory detection limit.
	TP17	1.5	0.004	
	TP18	1.5	0.0067	
PH Aliphatic C8-C10	TP6	0.5	0.0006	No guideline available
PH Aromatic C16-C21	TP18	1.5	0.0061	
Cadmium	TP4	3.0	0.00047	0.00025 Upper threshold limit
Naphthalene	TP16	2.5	0.004	0.0012
Fluoranthene	TP13	3.0	0.00056	0.0001
	TP16	2.5	0.0045	
	TP18	1.5	0.00011	
	TP3	3.5	0.00011	
	TP5	3.0	0.0001	
	TP9	0.3	0.00031	
Benzo(k)fluoranthene	TP1	2.0	0.00004	0.00003
	TP3	1.5	0.00004	
	TP3	3.5	0.00005	
	TP4	3.0	0.00005	
	TP9	0.3	0.00009	

Table 2.7 (Continued)
Substances Present Above Threshold Levels or Laboratory Detection Limit in Leachate

Indeno(123cd)pyrene	TP1	2.0	0.00009	0.00002
	TP1	3.0	0.00006	
	TP3	1.5	0.00003	
	TP4	2.0	0.00003	
	TP5	1.0	0.00004	
	TP5	2.0	0.00004	
	TP5	3.0	0.00006	
	TP6	2.0	0.00007	
	TP6	3.0	0.00006	
	TP9	0.3	0.00016	
	TP10	1.4	0.00006	
Benzo(b)fluoranthene	TP1	2.0	0.00012	0.00003
	TP1	3.0	0.00009	
	TP2	2.9	0.00004	
	TP3	1.5	0.00007	
	TP3	3.0	0.00007	
	TP4	2.0	0.00005	
	TP4	3.0	0.00013	
	TP5	1.0	0.00005	
	TP5	2.0	0.00006	
	TP5	3.0	0.00009	
	TP6	2.0	0.0001	
	TP6	3.0	0.00008	
	TP9	0.3	0.00025	
	TP10	1.4	0.00007	

Table 2.7 (Continued)
Substances Present Above Threshold Levels or Laboratory Detection Limit in Leachate

Benzo(a)pyrene	TP1	2.0	0.00011	0.00005
	TP1	3.0	0.00006	
	TP3	3.5	0.00011	
	TP4	3.0	0.0001	
	TP6	2.0	0.00006	
	TP9	0.3	0.00017	
Benzo(ghi)perylene	TP1	1.0	0.00005	0.000002
	TP1	2.0	0.0002	
	TP1	3.0	0.00008	
	TP2	1.0	0.00002	
	TP2	2.9	0.00004	
	TP3	1.5	0.00003	
	TP3	3.5	0.00022	
	TP4	0.5	0.00002	
	TP4	2.0	0.00004	
	TP4	3.0	0.00021	
	TP5	1.0	0.00005	
	TP5	2.0	0.00004	
	TP5	3.0	0.00008	
	TP6	0.5	0.00002	
	TP6	2.0	0.00007	
	TP6	3.0	0.00006	
	TP7	0.3	0.00002	
	TP8	0.5	0.00002	
	TP8	2.5	0.00002	
	TP9	0.3	0.00019	
TP10	1.4	0.00007		
TP10	2.2	0.00002		

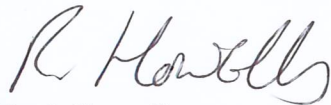
It is considered that the result for naphthalene is marginal and will not present any risks to the aquatic environment.

Results that exceed laboratory detection limits are similarly considered marginal and such levels would soon be rendered negligible through any effects of dilution and attenuation.

The soils are considered to be suitable for use as engineered fill provided the NRW find the results acceptable and that the fill is capped with a geotextile membrane and 300mm clean cover is implemented as specified in the Remediation Strategy.

We trust that the above is to your satisfaction, however, if you have any queries or require any further information please do not hesitate to contact us.

Yours sincerely
for: Terra Firma (Wales) Ltd



Mrs Ruth Howells



Certificate of Analysis

Certificate Number 15-40034-2

05-Aug-15

Client Terra Firma (Wales) Ltd
5 Deryn Court
Wharfdale Road
Pentwyn
Cardiff
CF23 7HB

Our Reference 15-40034-2

Client Reference 12032

Contract Title Herbert Road

Description 32 Soil samples, 32 Leachate samples.

Date Received 10-Jul-15

Date Started 10-Jul-15

Date Completed 05-Aug-15

Test Procedures Identified by prefix DETSn (details on request).

Notes This report supersedes 15-40034. Extra testing.

Opinions and interpretations are outside the scope of UKAS accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. Observations and interpretations are outside the scope of ISO 17025. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

A handwritten signature in black ink, appearing to read 'Rob Brown'.

Rob Brown
Business Manager



Summary of Chemical Analysis

Matrix Descriptions

Our Ref 15-40034-2

Client Ref 12032

Contract Title Herbert Road

Sample ID	Depth	Lab No	Completed	Matrix Description
TP1	1	837846	27/07/2015	Brown, gravelly, sandy CLAY
TP1	2	837847	27/07/2015	Dark brown, gravelly, sandy CLAY
TP1	3	837848	27/07/2015	Dark brown, gravelly, sandy CLAY
TP2	1	837849	27/07/2015	Dark brown, gravelly, sandy CLAY
TP2	2	837850	27/07/2015	Dark brown, gravelly, sandy CLAY
TP2	2.9	837851	27/07/2015	Dark brown, gravelly, sandy CLAY
TP3	0.5	837852	27/07/2015	Dark brown, gravelly, sandy CLAY
TP3	1.5	837853	27/07/2015	Dark brown, gravelly, sandy CLAY
TP3	3.5	837854	27/07/2015	Dark brown, gravelly, sandy CLAY
TP4	0.5	837855	27/07/2015	Dark brown, gravelly, sandy CLAY
TP4	2	837856	27/07/2015	Dark brown, gravelly, sandy CLAY
TP4	3	837857	27/07/2015	Dark brown, gravelly, sandy CLAY
TP5	1	837858	27/07/2015	Dark brown, gravelly, sandy CLAY including odd rootlets (Made ground - ceramic)
TP5	2	837859	27/07/2015	Dark brown, gravelly, sandy CLAY including odd rootlets
TP5	3	837860	27/07/2015	Dark brown, gravelly, sandy CLAY including odd rootlets (Made ground - brick)
TP6	0.5	837861	27/07/2015	Dark brown, gravelly, sandy CLAY
TP6	2	837862	27/07/2015	Dark brown, gravelly, sandy CLAY
TP6	3	837863	27/07/2015	Dark brown, gravelly, sandy CLAY
TP7	0.3	837864	27/07/2015	Dark brown, gravelly, sandy CLAY including odd rootlets
TP7	0.6	837865	27/07/2015	Dark brown, gravelly, sandy CLAY
TP7	2	837866	27/07/2015	Dark brown, gravelly, sandy CLAY
TP8	0.5	837867	27/07/2015	Dark brown, gravelly, sandy CLAY
TP8	2	837868	27/07/2015	Dark brown, gravelly, sandy CLAY
TP8	2.5	837869	27/07/2015	Very dark brown gravelly, sandy CLAY including odd rootlets
TP9	0.3	837870	27/07/2015	Dark brown, gravelly, sandy CLAY including odd rootlets
TP9	1	837871	27/07/2015	Brown, gravelly, sandy CLAY including odd rootlets
TP9	1.6	837872	27/07/2015	Dark brown, gravelly, sandy CLAY (Made ground -brick)
TP10	0.5	837873	27/07/2015	Dark brown, gravelly, sandy CLAY including odd rootlets (Made ground - brick)
TP10	1.4	837874	27/07/2015	Brown, gravelly, sandy CLAY
TP10	2.2	837875	27/07/2015	Dark brown, gravelly, sandy CLAY
TP11	0.5	837876	27/07/2015	Dark brown, gravelly, sandy CLAY
TP11	1	837877	27/07/2015	Dark brown, gravelly, sandy CLAY

Summary of Chemical Analysis

Soil Samples

Our Ref 15-40034-2
 Client Ref 12032
 Contract Title Herbert Road

Lab No	837846	837847	837848	837849	837850	837851
Sample ID	TP1	TP1	TP1	TP2	TP2	TP2
Depth	1.00	2.00	3.00	1.00	2.00	2.90
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Asbestos Quantification OHR	DETSC 1102	0				Y		Y	Y
Preparation									
Moisture Content	DETSC 1004*	0.1	%	15	18	18	15	21	17
Metals									
Antimony	DETSC 2301*	1	mg/kg	1.7	3.0	2.2	2.0	2.6	2.0
Arsenic	DETSC 2301#	0.2	mg/kg	6.2	9.9	7.5	11	9.9	7.4
Beryllium	DETSC 2301#	0.2	mg/kg	0.6	1.1	1.2	1.2	1.1	1.2
Boron (water soluble)	DETSC 2123#	0.2	mg/kg	1.1	1.2	1.0	1.2	1.2	1.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.5	0.6	0.8	0.4	0.5	0.4
Chromium	DETSC 2301#	0.15	mg/kg	23	65	39	33	29	23
Chromium III	DETSC 2301*	0.15	mg/kg	23	65	39	33	29	23
Hexavalent Chromium	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	14	41	33	23	32	40
Lead	DETSC 2301#	0.3	mg/kg	53	39	34	31	60	59
Manganese	DETSC 2301#	20	mg/kg	730	940	1100	860	770	600
Mercury	DETSC 2325#	0.05	mg/kg	0.06	0.14	0.10	0.11	0.27	0.19
Molybdenum	DETSC 2301#	0.4	mg/kg	1.1	4.9	1.2	0.9	1.9	1.0
Nickel	DETSC 2301#	1	mg/kg	17	44	30	21	26	29
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.8	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	55	100	89	74	90	78
Inorganics									
pH	DETSC 2008#			8.8	8.9	8.8	10.4	8.9	8.7
Cyanide Total	DETSC 2130#	0.1	mg/kg	0.1	0.2	0.2	0.1	0.2	0.1
Cyanide complex	DETSC 2130*	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Organic matter	DETSC 2002#	0.1	%	1.4	5.3	1.6	6.6	5.8	7.7
Total Sulphate as SO4	DETSC 2321#	0.01	%	0.09	0.09	0.19	0.41	0.12	0.06

Summary of Chemical Analysis

Soil Samples

Our Ref 15-40034-2
 Client Ref 12032
 Contract Title Herbert Road

Lab No	837846	837847	837848	837849	837850	837851
Sample ID	TP1	TP1	TP1	TP2	TP2	TP2
Depth	1.00	2.00	3.00	1.00	2.00	2.90
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2	< 1.2	2.0	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	4.1	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	19	11	< 3.4	< 3.4	< 3.4
Aliphatic C35-C44	DETSC 3072*	3.4	mg/kg	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	19	11	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.12
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	1.7	4.4	< 0.6	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	35	37	< 1.4	< 1.4	< 1.4
Aromatic C35-C44	DETSC 3072*	1.4	mg/kg	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	37	41	< 10	< 10	< 10
TPH Ali/Aro	DETSC 3072*	10	mg/kg	< 10	56	53	< 10	< 10	< 10
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	1.3
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.09
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.09
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.06	0.09	0.09	0.03	0.06	0.44
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.09
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.13	0.18	0.22	0.05	0.08	0.43
Pyrene	DETSC 3303#	0.03	mg/kg	0.10	0.13	0.20	0.05	0.07	0.34
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.05	0.06	0.11	< 0.03	< 0.03	0.13
Chrysene	DETSC 3303	0.03	mg/kg	0.06	0.08	0.12	< 0.03	< 0.03	0.13
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.07	0.07	0.14	< 0.03	< 0.03	0.10
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.05	< 0.03	< 0.03	0.04
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.03	0.05	0.09	< 0.03	< 0.03	0.07
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.04	0.07	< 0.03	< 0.03	0.04
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	0.04	0.07	< 0.03	< 0.03	< 0.03
Total PAH - USEPA 16	DETSC 3303	0.1	mg/kg	0.50	0.73	1.2	0.13	0.22	3.3
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 15-40034-2
 Client Ref 12032
 Contract Title Herbert Road

Lab No	837852	837853	837854	837855	837856	837857
Sample ID	TP3	TP3	TP3	TP4	TP4	TP4
Depth	0.50	1.50	3.50	0.50	2.00	3.00
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units							
Asbestos Quantification OHR	DETSC 1102	0						Y	Y	Y
Preparation										
Moisture Content	DETSC 1004*	0.1	%	15	20	15	17	15	19	
Metals										
Antimony	DETSC 2301*	1	mg/kg	2.1	2.4	1.6	2.2	1.7	2.4	
Arsenic	DETSC 2301#	0.2	mg/kg	9.9	13	8.3	22	8.1	8.6	
Beryllium	DETSC 2301#	0.2	mg/kg	0.8	1.1	1.1	0.7	0.7	0.8	
Boron (water soluble)	DETSC 2123#	0.2	mg/kg	0.5	1.1	1.2	1.2	1.2	1.0	
Cadmium	DETSC 2301#	0.1	mg/kg	0.4	0.6	3.0	0.6	1.1	0.4	
Chromium	DETSC 2301#	0.15	mg/kg	21	25	20	19	20	30	
Chromium III	DETSC 2301*	0.15	mg/kg	21	25	20	19	20	30	
Hexavalent Chromium	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Copper	DETSC 2301#	0.2	mg/kg	21	31	39	36	26	19	
Lead	DETSC 2301#	0.3	mg/kg	27	45	130	59	37	330	
Manganese	DETSC 2301#	20	mg/kg	550	890	980	630	640	730	
Mercury	DETSC 2325#	0.05	mg/kg	0.07	0.14	0.20	0.17	0.10	0.10	
Molybdenum	DETSC 2301#	0.4	mg/kg	0.9	1.1	0.8	1.2	0.8	0.9	
Nickel	DETSC 2301#	1	mg/kg	24	25	16	20	20	30	
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	
Zinc	DETSC 2301#	1	mg/kg	70	96	180	110	83	89	
Inorganics										
pH	DETSC 2008#			8.4	8.7	9.1	8.4	8.9	8.6	
Cyanide Total	DETSC 2130#	0.1	mg/kg	0.1	0.2	0.1	0.2	0.1	0.2	
Cyanide complex	DETSC 2130*	0.2	mg/kg	< 0.2	< 0.2	< 0.2	0.2	< 0.2	< 0.2	
Organic matter	DETSC 2002#	0.1	%	2.4	7.2	5.2	3.1	3.1	1.2	
Total Sulphate as SO4	DETSC 2321#	0.01	%	0.06	0.10	0.28	0.08	0.08	0.07	

Summary of Chemical Analysis

Soil Samples

Our Ref 15-40034-2
 Client Ref 12032
 Contract Title Herbert Road

Lab No	837852	837853	837854	837855	837856	837857
Sample ID	TP3	TP3	TP3	TP4	TP4	TP4
Depth	0.50	1.50	3.50	0.50	2.00	3.00
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	12	< 3.4	< 3.4	< 3.4
Aliphatic C35-C44	DETSC 3072*	3.4	mg/kg	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	12	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	5.2	< 0.6	< 0.6	2.2
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	50	< 1.4	< 1.4	10
Aromatic C35-C44	DETSC 3072*	1.4	mg/kg	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	55	< 10	< 10	13
TPH Ali/Aro	DETSC 3072*	10	mg/kg	< 10	< 10	67	< 10	< 10	13
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.08	0.18	0.06	0.27	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	0.06	< 0.03	0.06	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.13	0.77	0.06	0.52	0.23
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.11	0.62	0.05	0.40	0.24
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	0.05	0.31	< 0.03	0.15	0.12
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03	0.06	0.35	< 0.03	0.16	0.14
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.06	0.38	< 0.03	0.13	0.26
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.15	< 0.03	0.05	0.08
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.04	0.26	< 0.03	0.08	0.21
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.17	< 0.03	0.06	0.13
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.06	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.21	< 0.03	0.05	0.17
Total PAH - USEPA 16	DETSC 3303	0.1	mg/kg	< 0.10	0.53	3.5	0.16	2.0	1.6
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 15-40034-2
 Client Ref 12032
 Contract Title Herbert Road

Lab No	837858	837859	837860	837861	837862	837863
Sample ID	TP5	TP5	TP5	TP6	TP6	TP6
Depth	1.00	2.00	3.00	0.50	2.00	3.00
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Asbestos Quantification OHR	DETSC 1102	0				Y		Y	Y
Preparation									
Moisture Content	DETSC 1004*	0.1	%	17	23	30	17	21	21
Metals									
Antimony	DETSC 2301*	1	mg/kg	2.7	2.5	2.8	2.0	3.3	2.4
Arsenic	DETSC 2301#	0.2	mg/kg	7.1	23	15	9.6	13	12
Beryllium	DETSC 2301#	0.2	mg/kg	0.9	0.8	0.7	0.8	0.7	0.7
Boron (water soluble)	DETSC 2123#	0.2	mg/kg	2.7	1.6	2.1	1.6	1.7	1.8
Cadmium	DETSC 2301#	0.1	mg/kg	0.9	0.7	0.6	0.5	0.5	0.5
Chromium	DETSC 2301#	0.15	mg/kg	130	25	28	25	20	25
Chromium III	DETSC 2301*	0.15	mg/kg	130	25	28	25	20	25
Hexavalent Chromium	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	16	71	37	24	140	48
Lead	DETSC 2301#	0.3	mg/kg	31	81	64	38	130	76
Manganese	DETSC 2301#	20	mg/kg	1700	660	920	780	670	680
Mercury	DETSC 2325#	0.05	mg/kg	0.18	0.23	0.23	0.09	0.34	0.21
Molybdenum	DETSC 2301#	0.4	mg/kg	1.2	1.3	1.3	0.8	1.3	1.2
Nickel	DETSC 2301#	1	mg/kg	14	19	19	23	22	18
Selenium	DETSC 2301#	0.5	mg/kg	0.8	< 0.5	0.5	< 0.5	0.6	< 0.5
Zinc	DETSC 2301#	1	mg/kg	130	150	110	70	140	110
Inorganics									
pH	DETSC 2008#			9.6	8.3	8.3	9.2	9.2	8.6
Cyanide Total	DETSC 2130#	0.1	mg/kg	0.2	0.3	0.5	0.2	0.2	0.2
Cyanide complex	DETSC 2130*	0.2	mg/kg	< 0.2	< 0.2	0.3	< 0.2	0.2	0.2
Organic matter	DETSC 2002#	0.1	%	2.5	5.8	5.0	2.1	4.5	3.8
Total Sulphate as SO4	DETSC 2321#	0.01	%	0.23	0.09	0.12	0.11	0.12	0.09

Summary of Chemical Analysis

Soil Samples

Our Ref 15-40034-2
 Client Ref 12032
 Contract Title Herbert Road

Lab No	837858	837859	837860	837861	837862	837863
Sample ID	TP5	TP5	TP5	TP6	TP6	TP6
Depth	1.00	2.00	3.00	0.50	2.00	3.00
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	0.10	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	0.12	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	1.8	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	3.7	8.8	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	6.7	7.7	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	19	17	< 3.4	9.6	< 3.4	< 3.4
Aliphatic C35-C44	DETSC 3072*	3.4	mg/kg	8.8	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	19	28	19	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	0.12	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	12	1.7	< 0.6	< 0.6	1.9	5.8
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	90	16	< 1.4	< 1.4	3.6	8.8
Aromatic C35-C44	DETSC 3072*	1.4	mg/kg	38	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	100	18	< 10	< 10	< 10	15
TPH Ali/Aro	DETSC 3072*	10	mg/kg	120	46	19	< 10	< 10	15
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.04	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	0.05	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.20	0.09	0.16	< 0.03	0.29	0.19
Anthracene	DETSC 3303	0.03	mg/kg	0.05	< 0.03	< 0.03	< 0.03	0.06	0.04
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.36	0.18	0.29	< 0.03	0.52	0.41
Pyrene	DETSC 3303#	0.03	mg/kg	0.26	0.16	0.22	< 0.03	0.43	0.33
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.12	0.09	0.10	< 0.03	0.19	0.16
Chrysene	DETSC 3303	0.03	mg/kg	0.14	0.10	0.16	< 0.03	0.23	0.18
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.14	0.12	0.16	< 0.03	0.24	0.22
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.05	0.04	0.05	< 0.03	0.07	0.07
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.08	0.09	0.09	< 0.03	0.15	0.13
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.06	0.05	0.05	< 0.03	0.09	0.07
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.05	0.05	0.06	< 0.03	0.09	0.07
Total PAH - USEPA 16	DETSC 3303	0.1	mg/kg	1.6	0.96	1.3	< 0.10	2.4	1.9
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 15-40034-2
 Client Ref 12032
 Contract Title Herbert Road

Lab No	837864	837865	837866	837867	837868	837869
Sample ID	TP7	TP7	TP7	TP8	TP8	TP8
Depth	0.30	0.60	2.00	0.50	2.00	2.50
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Asbestos Quantification OHR	DETSC 1102	0		Y	Y				Y
Preparation									
Moisture Content	DETSC 1004*	0.1	%	16	12	29	16	16	14
Metals									
Antimony	DETSC 2301*	1	mg/kg	2.0	1.3	1.9	2.3	1.9	1.6
Arsenic	DETSC 2301#	0.2	mg/kg	10	4.3	10	13	6.7	9.1
Beryllium	DETSC 2301#	0.2	mg/kg	0.9	0.5	1.1	1.2	0.8	0.9
Boron (water soluble)	DETSC 2123#	0.2	mg/kg	1.4	1.5	2.0	1.5	1.2	1.8
Cadmium	DETSC 2301#	0.1	mg/kg	0.6	0.6	0.5	0.4	1.6	0.3
Chromium	DETSC 2301#	0.15	mg/kg	25	19	26	35	27	31
Chromium III	DETSC 2301*	0.15	mg/kg	25	19	26	35	27	31
Hexavalent Chromium	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	24	11	32	34	17	24
Lead	DETSC 2301#	0.3	mg/kg	43	20	20	90	95	20
Manganese	DETSC 2301#	20	mg/kg	820	510	590	690	830	930
Mercury	DETSC 2325#	0.05	mg/kg	0.15	< 0.05	0.07	0.20	0.09	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.8	0.5	3.6	1.2	0.6	0.9
Nickel	DETSC 2301#	1	mg/kg	27	18	30	27	24	22
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	97	52	77	95	130	60
Inorganics									
pH	DETSC 2008#			8.8	11.5	8.5	8.7	9.4	10.2
Cyanide Total	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	0.1	0.2	< 0.1	< 0.1
Cyanide complex	DETSC 2130*	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Organic matter	DETSC 2002#	0.1	%	2.4	1.6	1.5	5.8	0.9	10
Total Sulphate as SO4	DETSC 2321#	0.01	%	0.11	0.22	0.10	0.11	0.12	0.10

Summary of Chemical Analysis

Soil Samples

Our Ref 15-40034-2
 Client Ref 12032
 Contract Title Herbert Road

Lab No	837864	837865	837866	837867	837868	837869
Sample ID	TP7	TP7	TP7	TP8	TP8	TP8
Depth	0.30	0.60	2.00	0.50	2.00	2.50
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.17
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	0.01	< 0.01	< 0.01	< 0.01	0.05
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	2.7
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	5.9	< 3.4	< 3.4	< 3.4	< 3.4	66
Aliphatic C35-C44	DETSC 3072*	3.4	mg/kg	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	15
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	69
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.03
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	0.01	< 0.01	< 0.01	< 0.01	0.05
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	9.1
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	140
Aromatic C35-C44	DETSC 3072*	1.4	mg/kg	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	41
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	150
TPH Ali/Aro	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	220
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	0.05	< 0.03	< 0.03	< 0.03	< 0.03	0.05
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.23	0.18	< 0.03	0.10	< 0.03	0.14
Anthracene	DETSC 3303	0.03	mg/kg	0.05	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.34	0.21	< 0.03	0.16	< 0.03	0.13
Pyrene	DETSC 3303#	0.03	mg/kg	0.27	0.17	< 0.03	0.14	< 0.03	0.13
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.13	0.10	< 0.03	0.07	< 0.03	0.06
Chrysene	DETSC 3303	0.03	mg/kg	0.15	0.11	< 0.03	0.07	< 0.03	0.14
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.16	0.10	< 0.03	0.09	< 0.03	0.09
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.06	0.03	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.09	0.07	< 0.03	0.06	< 0.03	0.05
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.06	0.03	< 0.03	0.03	< 0.03	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.06	0.04	< 0.03	0.03	< 0.03	0.05
Total PAH - USEPA 16	DETSC 3303	0.1	mg/kg	1.6	1.1	< 0.10	0.77	< 0.10	0.81
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 15-40034-2
 Client Ref 12032
 Contract Title Herbert Road

Lab No	837870	837871	837872	837873	837874	837875
Sample ID	TP9	TP9	TP9	TP10	TP10	TP10
Depth	0.30	1.00	1.60	0.50	1.40	2.20
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Asbestos Quantification OHR	DETSC 1102	0		Y		Y	Y		Y
Preparation									
Moisture Content	DETSC 1004*	0.1	%	14	15	21	13	17	21
Metals									
Antimony	DETSC 2301*	1	mg/kg	1.7	2.9	2.9	2.2	1.5	1.9
Arsenic	DETSC 2301#	0.2	mg/kg	7.1	6.8	9.3	8.8	4.2	8.7
Beryllium	DETSC 2301#	0.2	mg/kg	1.3	1.0	0.8	1.0	0.8	0.9
Boron (water soluble)	DETSC 2123#	0.2	mg/kg	2.1	1.4	1.9	1.3	1.5	2.0
Cadmium	DETSC 2301#	0.1	mg/kg	0.5	0.5	0.5	0.4	0.6	0.3
Chromium	DETSC 2301#	0.15	mg/kg	34	36	27	31	29	29
Chromium III	DETSC 2301*	0.15	mg/kg	34	36	27	31	29	29
Hexavalent Chromium	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	24	15	21	18	8.9	25
Lead	DETSC 2301#	0.3	mg/kg	28	43	69	35	30	70
Manganese	DETSC 2301#	20	mg/kg	1200	810	570	820	530	830
Mercury	DETSC 2325#	0.05	mg/kg	0.07	< 0.05	0.09	0.09	< 0.05	0.24
Molybdenum	DETSC 2301#	0.4	mg/kg	0.8	0.5	0.7	0.8	0.6	0.9
Nickel	DETSC 2301#	1	mg/kg	20	29	22	26	25	20
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	77	86	110	110	68	85
Inorganics									
pH	DETSC 2008#			10.0	9.0	9.7	8.4	11.2	9.8
Cyanide Total	DETSC 2130#	0.1	mg/kg	< 0.1	0.2	0.2	0.2	< 0.1	0.2
Cyanide complex	DETSC 2130*	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Organic matter	DETSC 2002#	0.1	%	6.4	1.3	1.5	2.3	0.5	6.2
Total Sulphate as SO4	DETSC 2321#	0.01	%	0.41	0.09	0.18	0.07	0.21	0.17

Summary of Chemical Analysis

Soil Samples

Our Ref 15-40034-2
 Client Ref 12032
 Contract Title Herbert Road

Lab No	837870	837871	837872	837873	837874	837875
Sample ID	TP9	TP9	TP9	TP10	TP10	TP10
Depth	0.30	1.00	1.60	0.50	1.40	2.20
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	9.9	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	140	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
Aliphatic C35-C44	DETSC 3072*	3.4	mg/kg	36	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	150	< 10	< 10	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	25	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	290	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Aromatic C35-C44	DETSC 3072*	1.4	mg/kg	94	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	320	< 10	< 10	< 10	< 10	< 10
TPH Ali/Aro	DETSC 3072*	10	mg/kg	470	< 10	< 10	< 10	< 10	< 10
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	0.25	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.08	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	0.08	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.58	0.08	0.13	0.20	0.25	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	0.10	< 0.03	< 0.03	0.06	0.05	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.51	0.20	0.31	0.41	0.49	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	0.40	0.16	0.27	0.33	0.44	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.18	0.07	0.11	0.16	0.19	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	0.24	0.07	0.13	0.19	0.20	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.22	0.07	0.18	0.23	0.27	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.07	< 0.03	0.07	0.08	0.08	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.16	0.05	0.13	0.12	0.19	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.13	< 0.03	0.08	0.08	0.11	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.20	< 0.03	0.10	0.08	0.12	< 0.03
Total PAH - USEPA 16	DETSC 3303	0.1	mg/kg	3.2	0.69	1.5	1.9	2.4	< 0.10
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	0.8

Summary of Chemical Analysis

Soil Samples

Our Ref 15-40034-2
 Client Ref 12032
 Contract Title Herbert Road

Lab No	837876	837877
Sample ID	TP11	TP11
Depth	0.50	1.00
Other ID		
Sample Type	SOIL	SOIL
Sampling Date	08/07/15	08/07/15
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Asbestos Quantification OHR	DETSC 1102	0		Y	
Preparation					
Moisture Content	DETSC 1004*	0.1	%	14	18
Metals					
Antimony	DETSC 2301*	1	mg/kg	1.8	2.8
Arsenic	DETSC 2301#	0.2	mg/kg	9.4	6.2
Beryllium	DETSC 2301#	0.2	mg/kg	0.7	0.9
Boron (water soluble)	DETSC 2123#	0.2	mg/kg	1.3	1.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.4	0.6
Chromium	DETSC 2301#	0.15	mg/kg	18	29
Chromium III	DETSC 2301*	0.15	mg/kg	18	29
Hexavalent Chromium	DETSC 2204*	1	mg/kg	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	20	28
Lead	DETSC 2301#	0.3	mg/kg	47	35
Manganese	DETSC 2301#	20	mg/kg	690	800
Mercury	DETSC 2325#	0.05	mg/kg	0.13	0.06
Molybdenum	DETSC 2301#	0.4	mg/kg	0.8	0.5
Nickel	DETSC 2301#	1	mg/kg	20	29
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	85	96
Inorganics					
pH	DETSC 2008#			9.3	8.4
Cyanide Total	DETSC 2130#	0.1	mg/kg	0.2	0.2
Cyanide complex	DETSC 2130*	0.2	mg/kg	< 0.2	< 0.2
Organic matter	DETSC 2002#	0.1	%	2.0	1.4
Total Sulphate as SO4	DETSC 2321#	0.01	%	0.16	0.06

Summary of Chemical Analysis

Soil Samples

Our Ref 15-40034-2
 Client Ref 12032
 Contract Title Herbert Road

Lab No	837876	837877
Sample ID	TP11	TP11
Depth	0.50	1.00
Other ID		
Sample Type	SOIL	SOIL
Sampling Date	08/07/15	08/07/15
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Petroleum Hydrocarbons					
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	57	< 3.4
Aliphatic C35-C44	DETSC 3072*	3.4	mg/kg	14	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	57	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	1.9	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	110	< 1.4
Aromatic C35-C44	DETSC 3072*	1.4	mg/kg	33	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	110	< 10
TPH Ali/Aro	DETSC 3072*	10	mg/kg	170	< 10
PAHs					
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.13	0.05
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.26	0.09
Pyrene	DETSC 3303#	0.03	mg/kg	0.24	0.08
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.11	0.04
Chrysene	DETSC 3303	0.03	mg/kg	0.14	0.04
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.16	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.07	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.11	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.07	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.08	< 0.03
Total PAH - USEPA 16	DETSC 3303	0.1	mg/kg	1.4	0.30
Phenols					
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3

Summary of Chemical Analysis

Leachate Samples

Our Ref 15-40034-2

Client Ref 12032

Contract Title Herbert Road

Lab No	837878	837879	837880	837881	837882	837883
Sample ID	TP1	TP1	TP1	TP2	TP2	TP2
Depth	1.00	2.00	3.00	1.00	2.00	2.90
Other ID						
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Preparation									
NRA Leachate Preparation	DETS 036*			Y	Y	Y	Y	Y	Y
Metals									
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	2.5	2.3	1.3	1.1	1.3	1.3
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03	< 0.03	< 0.03	0.09	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	1.0	0.26	< 0.25	< 0.25	< 0.25	< 0.25
Chromium III Dissolved	DETSC 2302*	1	ug/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexavalent Chromium	DETSC 2203	3	ug/l	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	3.3	2.8	1.9	1.2	2.0	1.6
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.72	0.70	0.37	0.13	0.66	0.57
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	0.9	0.8	< 0.5	0.6	0.5	< 0.5
Selenium, Dissolved	DETSC 2306	0.25	ug/l	0.33	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Zinc, Dissolved	DETSC 2306	1.25	ug/l	1.67	1.42	1.29	2.45	1.52	1.38
Inorganics									
pH	DETSC 2008			8.2	7.7	7.6	7.5	7.7	7.6
Cyanide Total	DETSC 2130	40	ug/l	< 40	< 40	< 40	< 40	< 40	< 40
Chloride	DETSC 2055	0.1	mg/l	1.1	0.81	0.93	1.2	0.95	0.93
Fluoride	DETSC 2055	0.1	mg/l	0.13	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Sulphate as SO4	DETSC 2055	0.1	mg/l	8.8	5.3	5.6	8.2	6.2	3.0
Total Organic Carbon	DETSC 2085	1	mg/l	4.1	3.7	2.5	1.8	2.8	2.2
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10
TPH Ali/Aro	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10

Summary of Chemical Analysis

Leachate Samples

Our Ref 15-40034-2
 Client Ref 12032
 Contract Title Herbert Road

Lab No	837878	837879	837880	837881	837882	837883
Sample ID	TP1	TP1	TP1	TP2	TP2	TP2
Depth	1.00	2.00	3.00	1.00	2.00	2.90
Other ID						
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
PAHs									
Naphthalene	DETSC 3304	0.01	ug/l	0.03	0.03	0.04	0.04	0.04	0.04
Acenaphthylene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	0.02	< 0.01	< 0.01	< 0.01
Fluorene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	0.02	< 0.01	0.01	0.02
Phenanthrene	DETSC 3304	0.01	ug/l	0.03	0.02	0.07	0.05	0.05	0.06
Anthracene	DETSC 3304	0.01	ug/l	< 0.01	0.01	0.02	0.01	0.01	0.01
Fluoranthene	DETSC 3304	0.01	ug/l	0.04	0.05	0.06	0.06	0.05	0.06
Pyrene	DETSC 3304	0.01	ug/l	0.05	0.05	0.05	0.06	0.05	0.05
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.03	0.05	0.04	0.03	0.02	0.04
Chrysene	DETSC 3304	0.01	ug/l	0.03	0.05	0.06	0.04	0.03	0.04
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	0.12	0.09	0.03	0.03	0.04
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	0.04	0.03	0.01	< 0.01	0.02
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	< 0.01	0.11	0.06	0.03	0.02	< 0.01
Indeno(1,2,3-c,d)pyrene	DETSC 3304*	0.01	ug/l	0.02	0.09	0.06	0.02	< 0.01	0.02
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perylene	DETSC 3304*	0.01	ug/l	0.05	0.20	0.08	0.02	< 0.01	0.04
PAH	DETSC 3304	0.04	ug/l	0.30	0.81	0.71	0.41	0.33	0.43
Phenols									
Phenol	*	0.5	ug/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Summary of Chemical Analysis

Leachate Samples

Our Ref 15-40034-2

Client Ref 12032

Contract Title Herbert Road

Lab No	837884	837885	837886	837887	837888	837889
Sample ID	TP3	TP3	TP3	TP4	TP4	TP4
Depth	0.50	1.50	3.50	0.50	2.00	3.00
Other ID						
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Preparation									
NRA Leachate Preparation	DETS 036*			Y	Y	Y	Y	Y	Y
Metals									
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.90	1.5	0.68	1.2	1.6	1.5
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03	0.07	< 0.03	< 0.03	0.47
Chromium, Dissolved	DETSC 2306	0.25	ug/l	0.40	< 0.25	< 0.25	0.55	< 0.25	< 0.25
Chromium III Dissolved	DETSC 2302*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexavalent Chromium	DETSC 2203	3	ug/l	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.3	2.1	1.1	2.4	1.6	0.9
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.47	0.81	0.65	0.96	0.40	0.30
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	< 0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5
Selenium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Zinc, Dissolved	DETSC 2306	1.25	ug/l	2.20	< 1.25	2.61	3.09	< 1.25	3.26
Inorganics									
pH	DETSC 2008			7.6	7.7	7.6	7.6	7.5	7.5
Cyanide Total	DETSC 2130	40	ug/l	< 40	< 40	< 40	< 40	< 40	< 40
Chloride	DETSC 2055	0.1	mg/l	1.1	0.89	0.83	0.94	0.94	0.73
Fluoride	DETSC 2055	0.1	mg/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Sulphate as SO4	DETSC 2055	0.1	mg/l	6.2	3.1	4.8	8.0	9.6	5.1
Total Organic Carbon	DETSC 2085	1	mg/l	2.5	2.5	1.6	3.9	3.0	1.7
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10
TPH Ali/Aro	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10

Summary of Chemical Analysis

Leachate Samples

Our Ref 15-40034-2

Client Ref 12032

Contract Title Herbert Road

Lab No	837884	837885	837886	837887	837888	837889
Sample ID	TP3	TP3	TP3	TP4	TP4	TP4
Depth	0.50	1.50	3.50	0.50	2.00	3.00
Other ID						
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
PAHs									
Naphthalene	DETSC 3304	0.01	ug/l	0.03	0.04	0.04	0.04	0.05	0.03
Acenaphthylene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	0.01	< 0.01	0.01	0.01
Acenaphthene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	0.02	< 0.01	0.01	0.03
Fluorene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	0.01	< 0.01	0.02	0.02
Phenanthrene	DETSC 3304	0.01	ug/l	0.02	0.06	0.06	0.03	0.07	0.04
Anthracene	DETSC 3304	0.01	ug/l	< 0.01	0.01	0.02	< 0.01	0.02	0.02
Fluoranthene	DETSC 3304	0.01	ug/l	0.02	0.07	0.11	0.03	0.07	0.08
Pyrene	DETSC 3304	0.01	ug/l	0.02	0.07	0.12	0.03	0.08	0.11
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	< 0.01	0.02	0.10	0.02	0.04	0.05
Chrysene	DETSC 3304	0.01	ug/l	< 0.01	0.05	0.11	0.02	0.04	0.05
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	0.07	0.11	0.03	0.05	0.13
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	0.04	0.05	0.01	0.02	0.05
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	< 0.01	0.05	0.11	0.02	0.03	0.10
Indeno(1,2,3-c,d)pyrene	DETSC 3304*	0.01	ug/l	< 0.01	0.03	0.15	0.02	0.03	0.17
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	0.05	< 0.01	0.01	0.03
Benzo(g,h,i)perylene	DETSC 3304*	0.01	ug/l	< 0.01	0.03	0.22	0.02	0.04	0.21
PAH	DETSC 3304	0.04	ug/l	0.10	0.53	1.3	0.27	0.58	1.1
Phenols									
Phenol	*	0.5	ug/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Summary of Chemical Analysis

Leachate Samples

Our Ref 15-40034-2

Client Ref 12032

Contract Title Herbert Road

Lab No	837890	837891	837892	837893	837894	837895
Sample ID	TP5	TP5	TP5	TP6	TP6	TP6
Depth	1.00	2.00	3.00	0.50	2.00	3.00
Other ID						
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Preparation									
NRA Leachate Preparation	DETS 036*			Y	Y	Y	Y	Y	Y
Metals									
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	5.0	1.4	3.7	0.61	2.7	1.8
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03	< 0.03	< 0.03	0.12	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	< 0.25	0.37	< 0.25	0.29	0.81
Chromium III Dissolved	DETSC 2302*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexavalent Chromium	DETSC 2203	3	ug/l	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	5.7	2.6	9.2	2.0	4.2	3.5
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.67	1.1	3.3	0.66	2.4	1.4
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01	0.02	< 0.01	< 0.01	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	1.8	0.6	1.0	0.7	0.7	0.6
Selenium, Dissolved	DETSC 2306	0.25	ug/l	0.67	< 0.25	0.35	< 0.25	< 0.25	< 0.25
Zinc, Dissolved	DETSC 2306	1.25	ug/l	< 1.25	1.55	2.32	1.43	3.11	1.69
Inorganics									
pH	DETSC 2008			7.7	7.7	7.6	7.7	7.5	7.3
Cyanide Total	DETSC 2130	40	ug/l	< 40	< 40	< 40	< 40	< 40	< 40
Chloride	DETSC 2055	0.1	mg/l	1.5	1.8	1.3	1.2	1.2	1.2
Fluoride	DETSC 2055	0.1	mg/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Sulphate as SO4	DETSC 2055	0.1	mg/l	3.5	6.2	8.8	9.1	4.7	5.8
Total Organic Carbon	DETSC 2085	1	mg/l	5.0	3.9	6.6	4.1	3.1	6.8
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	0.6	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10
TPH Ali/Aro	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10

Summary of Chemical Analysis

Leachate Samples

Our Ref 15-40034-2

Client Ref 12032

Contract Title Herbert Road

Lab No	837890	837891	837892	837893	837894	837895
Sample ID	TP5	TP5	TP5	TP6	TP6	TP6
Depth	1.00	2.00	3.00	0.50	2.00	3.00
Other ID						
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
PAHs									
Naphthalene	DETSC 3304	0.01	ug/l	0.07	0.04	0.05	0.03	0.04	0.04
Acenaphthylene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	DETSC 3304	0.01	ug/l	0.10	0.01	0.02	< 0.01	0.01	0.01
Fluorene	DETSC 3304	0.01	ug/l	0.04	0.01	0.02	< 0.01	0.01	0.01
Phenanthrene	DETSC 3304	0.01	ug/l	0.06	0.04	0.07	0.03	0.06	0.06
Anthracene	DETSC 3304	0.01	ug/l	0.02	0.01	0.02	< 0.01	0.02	0.01
Fluoranthene	DETSC 3304	0.01	ug/l	0.07	0.06	0.11	0.04	0.07	0.08
Pyrene	DETSC 3304	0.01	ug/l	0.07	0.05	0.11	0.04	0.07	0.06
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.04	0.03	0.07	0.02	0.04	0.04
Chrysene	DETSC 3304	0.01	ug/l	0.04	0.04	0.06	0.02	0.05	0.05
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.05	0.06	0.09	0.03	0.10	0.08
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.02	0.02	0.03	0.01	0.03	0.03
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.03	0.03	0.05	0.02	0.06	0.04
Indeno(1,2,3-c,d)pyrene	DETSC 3304*	0.01	ug/l	0.04	0.04	0.06	0.01	0.07	0.06
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	0.02	< 0.01	0.02	0.02
Benzo(g,h,i)perylene	DETSC 3304*	0.01	ug/l	0.05	0.04	0.08	0.02	0.07	0.06
PAH	DETSC 3304	0.04	ug/l	0.70	0.48	0.86	0.28	0.70	0.64
Phenols									
Phenol	*	0.5	ug/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Summary of Chemical Analysis

Leachate Samples

Our Ref 15-40034-2

Client Ref 12032

Contract Title Herbert Road

Lab No	837896	837897	837898	837899	837900	837901
Sample ID	TP7	TP7	TP7	TP8	TP8	TP8
Depth	0.30	0.60	2.00	0.50	2.00	2.50
Other ID						
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Preparation									
NRA Leachate Preparation	DETS 036*			Y	Y	Y	Y	Y	Y
Metals									
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	1.6	0.82	0.35	0.97	1.9	3.4
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	2.4	< 0.25	< 0.25	1.1	< 0.25
Chromium III Dissolved	DETSC 2302*	1	ug/l	< 1.0	2.4	< 1.0	< 1.0	1.1	< 1.0
Hexavalent Chromium	DETSC 2203	3	ug/l	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.9	5.3	0.6	1.1	1.9	3.4
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.35	< 0.09	0.20	0.18	0.35	0.18
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	< 0.5	0.6	< 0.5	< 0.5	< 0.5	1.4
Selenium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	0.66
Zinc, Dissolved	DETSC 2306	1.25	ug/l	1.42	< 1.25	< 1.25	4.08	< 1.25	< 1.25
Inorganics									
pH	DETSC 2008			7.3	10.7	8.9	8.3	8.3	7.9
Cyanide Total	DETSC 2130	40	ug/l	< 40	< 40	< 40	< 40	< 40	< 40
Chloride	DETSC 2055	0.1	mg/l	1.3	3.3	1.4	0.77	1.4	1.3
Fluoride	DETSC 2055	0.1	mg/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Sulphate as SO4	DETSC 2055	0.1	mg/l	9.5	2.3	15	8.5	6.2	4.7
Total Organic Carbon	DETSC 2085	1	mg/l	2.6	1.7	4.0	1.6	1.5	3.3
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10
TPH Ali/Aro	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10

Summary of Chemical Analysis

Leachate Samples

Our Ref 15-40034-2

Client Ref 12032

Contract Title Herbert Road

Lab No	837896	837897	837898	837899	837900	837901
Sample ID	TP7	TP7	TP7	TP8	TP8	TP8
Depth	0.30	0.60	2.00	0.50	2.00	2.50
Other ID						
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
PAHs									
Naphthalene	DETSC 3304	0.01	ug/l	0.04	0.07	0.04	0.03	0.03	0.05
Acenaphthylene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	DETSC 3304	0.01	ug/l	< 0.01	0.01	< 0.01	< 0.01	< 0.01	0.01
Fluorene	DETSC 3304	0.01	ug/l	0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01
Phenanthrene	DETSC 3304	0.01	ug/l	0.05	0.03	0.02	0.04	0.02	0.08
Anthracene	DETSC 3304	0.01	ug/l	0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01
Fluoranthene	DETSC 3304	0.01	ug/l	0.05	0.02	0.01	0.04	0.02	0.05
Pyrene	DETSC 3304	0.01	ug/l	0.04	0.02	0.02	0.04	0.02	3.9
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.02	< 0.01	< 0.01	0.02	< 0.01	0.02
Chrysene	DETSC 3304	0.01	ug/l	0.03	< 0.01	< 0.01	0.02	< 0.01	0.03
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.03	< 0.01	< 0.01	0.03	< 0.01	0.03
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.02	< 0.01	< 0.01	0.02	< 0.01	0.02
Indeno(1,2,3-c,d)pyrene	DETSC 3304*	0.01	ug/l	0.02	< 0.01	< 0.01	0.01	< 0.01	< 0.01
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perylene	DETSC 3304*	0.01	ug/l	0.02	< 0.01	< 0.01	0.02	< 0.01	0.02
PAH	DETSC 3304	0.04	ug/l	0.35	0.14	0.10	0.26	0.08	4.3
Phenols									
Phenol	*	0.5	ug/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Summary of Chemical Analysis

Leachate Samples

Our Ref 15-40034-2

Client Ref 12032

Contract Title Herbert Road

Lab No	837902	837903	837904	837905	837906	837907
Sample ID	TP9	TP9	TP9	TP10	TP10	TP10
Depth	0.30	1.00	1.60	0.50	1.40	2.20
Other ID						
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Preparation									
NRA Leachate Preparation	DETS 036*			Y	Y	Y	Y	Y	Y
Metals									
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	3.9	1.7	1.7	0.56	3.7	1.1
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Chromium III Dissolved	DETSC 2302*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexavalent Chromium	DETSC 2203	3	ug/l	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	4.3	2.1	2.6	2.3	2.9	1.1
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.46	0.38	0.69	< 0.09	2.9	0.36
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	1.1	0.6	0.7	0.6	0.9	< 0.5
Selenium, Dissolved	DETSC 2306	0.25	ug/l	0.66	< 0.25	0.37	< 0.25	< 0.25	< 0.25
Zinc, Dissolved	DETSC 2306	1.25	ug/l	< 1.25	1.61	1.26	< 1.25	1.39	< 1.25
Inorganics									
pH	DETSC 2008			7.6	7.4	7.2	10.5	8.7	8.2
Cyanide Total	DETSC 2130	40	ug/l	< 40	< 40	< 40	< 40	< 40	< 40
Chloride	DETSC 2055	0.1	mg/l	1.1	1.0	1.3	1.3	0.85	0.66
Fluoride	DETSC 2055	0.1	mg/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Sulphate as SO4	DETSC 2055	0.1	mg/l	5.8	6.2	8.6	2.9	3.9	7.2
Total Organic Carbon	DETSC 2085	1	mg/l	4.1	2.1	2.7	1.8	3.3	2.0
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10
TPH Ali/Aro	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10

Summary of Chemical Analysis

Leachate Samples

Our Ref 15-40034-2

Client Ref 12032

Contract Title Herbert Road

Lab No	837902	837903	837904	837905	837906	837907
Sample ID	TP9	TP9	TP9	TP10	TP10	TP10
Depth	0.30	1.00	1.60	0.50	1.40	2.20
Other ID						
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
PAHs									
Naphthalene	DETSC 3304	0.01	ug/l	0.08	0.03	0.03	0.05	0.03	0.03
Acenaphthylene	DETSC 3304	0.01	ug/l	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	DETSC 3304	0.01	ug/l	0.04	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	DETSC 3304	0.01	ug/l	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	DETSC 3304	0.01	ug/l	0.21	0.02	0.02	0.02	0.04	0.03
Anthracene	DETSC 3304	0.01	ug/l	0.05	< 0.01	< 0.01	< 0.01	0.01	< 0.01
Fluoranthene	DETSC 3304	0.01	ug/l	0.31	0.02	0.02	0.01	0.07	0.03
Pyrene	DETSC 3304	0.01	ug/l	0.35	0.02	0.02	0.01	0.06	0.02
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.25	0.01	0.01	< 0.01	0.03	0.01
Chrysene	DETSC 3304	0.01	ug/l	0.20	0.01	0.01	< 0.01	0.05	0.02
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.25	0.03	0.02	< 0.01	0.07	0.02
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.09	0.01	< 0.01	< 0.01	0.03	0.01
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.17	0.02	< 0.01	< 0.01	0.05	0.02
Indeno(1,2,3-c,d)pyrene	DETSC 3304*	0.01	ug/l	0.16	< 0.01	< 0.01	< 0.01	0.06	0.01
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	0.04	< 0.01	< 0.01	< 0.01	0.01	< 0.01
Benzo(g,h,i)perylene	DETSC 3304*	0.01	ug/l	0.19	0.01	0.01	< 0.01	0.07	0.02
PAH	DETSC 3304	0.04	ug/l	2.5	0.20	0.16	0.09	0.59	0.22
Phenols									
Phenol	*	0.5	ug/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Summary of Chemical Analysis

Leachate Samples

Our Ref 15-40034-2

Client Ref 12032

Contract Title Herbert Road

Lab No	837908	837909
Sample ID	TP11	TP11
Depth	0.50	1.00
Other ID		
Sample Type	LEACHATE	LEACHATE
Sampling Date	08/07/15	08/07/15
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Preparation					
NRA Leachate Preparation	DETS 036*			Y	Y
Metals					
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.72	0.56
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	< 0.25
Chromium III Dissolved	DETSC 2302*	1	ug/l	< 1.0	< 1.0
Hexavalent Chromium	DETSC 2203	3	ug/l	< 3.0	< 3.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	0.8	2.2
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.19	0.19
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	< 0.5	< 0.5
Selenium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	< 0.25
Zinc, Dissolved	DETSC 2306	1.25	ug/l	< 1.25	< 1.25
Inorganics					
pH	DETSC 2008			8.1	7.9
Cyanide Total	DETSC 2130	40	ug/l	< 40	< 40
Chloride	DETSC 2055	0.1	mg/l	0.69	0.57
Fluoride	DETSC 2055	0.1	mg/l	< 0.10	< 0.10
Sulphate as SO4	DETSC 2055	0.1	mg/l	4.9	4.3
Total Organic Carbon	DETSC 2085	1	mg/l	1.5	1.9
Petroleum Hydrocarbons					
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10
TPH Ali/Aro	DETSC 3072*	10	ug/l	< 10	< 10

Summary of Chemical Analysis

Leachate Samples

Our Ref 15-40034-2

Client Ref 12032

Contract Title Herbert Road

Lab No	837908	837909
Sample ID	TP11	TP11
Depth	0.50	1.00
Other ID		
Sample Type	LEACHATE	LEACHATE
Sampling Date	08/07/15	08/07/15
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
PAHs					
Naphthalene	DETSC 3304	0.01	ug/l	0.03	0.03
Acenaphthylene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Acenaphthene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Fluorene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Phenanthrene	DETSC 3304	0.01	ug/l	0.03	0.02
Anthracene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Fluoranthene	DETSC 3304	0.01	ug/l	0.03	0.02
Pyrene	DETSC 3304	0.01	ug/l	0.02	0.02
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.01	< 0.01
Chrysene	DETSC 3304	0.01	ug/l	0.02	< 0.01
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.02	< 0.01
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Indeno(1,2,3-c,d)pyrene	DETSC 3304*	0.01	ug/l	< 0.01	< 0.01
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01
Benzo(g,h,i)perylene	DETSC 3304*	0.01	ug/l	0.01	< 0.01
PAH	DETSC 3304	0.04	ug/l	0.17	0.08
Phenols					
Phenol	*	0.5	ug/l	< 0.50	< 0.50

Summary of Asbestos Analysis

Soil Samples

Our Ref 15-40034-2

Client Ref 12032

Contract Title Herbert Road

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
837846	TP1 1.00	SOIL	NAD	none	D Wilkinson
837847	TP1 2.00	SOIL	NAD	none	D Wilkinson
837848	TP1 3.00	SOIL	Chrysotile	Chrysotile present as fibre bundles	D Wilkinson
837849	TP2 1.00	SOIL	NAD	none	D Wilkinson
837850	TP2 2.00	SOIL	Chrysotile	Chrysotile present as small fibre bundles	D Wilkinson
837851	TP2 2.90	SOIL	Chrysotile	Chrysotile present as fibre bundles	D Wilkinson
837852	TP3 0.50	SOIL	NAD	none	D Wilkinson
837853	TP3 1.50	SOIL	NAD	none	D Wilkinson
837854	TP3 3.50	SOIL	NAD	none	D Wilkinson
837855	TP4 0.50	SOIL	Chrysotile	Chrysotile present as fibre bundles	D Wilkinson
837856	TP4 2.00	SOIL	Chrysotile	Chrysotile present as fibre bundles	D Wilkinson
837857	TP4 3.00	SOIL	Chrysotile	Chrysotile present as small fibre bundle	D Wilkinson
837858	TP5 1.00	SOIL	NAD	none	D Wilkinson
837859	TP5 2.00	SOIL	NAD	none	D Wilkinson
837860	TP5 3.00	SOIL	Chrysotile	Chrysotile present as fibre bundles	D Wilkinson
837861	TP6 0.50	SOIL	NAD	none	D Wilkinson
837862	TP6 2.00	SOIL	Chrysotile	Chrysotile present as fibre bundles	D Wilkinson
837863	TP6 3.00	SOIL	Chrysotile	Chrysotile present as fibre bundles	D Wilkinson
837864	TP7 0.30	SOIL	Chrysotile	Chrysotile present as fibre bundles	D Wilkinson
837865	TP7 0.60	SOIL	Chrysotile	Chrysotile present as small fibre bundle	D Wilkinson
837866	TP7 2.00	SOIL	NAD	none	D Wilkinson
837867	TP8 0.50	SOIL	NAD	none	D Wilkinson
837868	TP8 2.00	SOIL	NAD	none	D Wilkinson
837869	TP8 2.50	SOIL	Chrysotile	Chrysotile present as fibre bundles	D Wilkinson
837870	TP9 0.30	SOIL	Chrysotile Amosite	Chrysotile present as fibre bundles Amosite also present as small bundle	D Wilkinson
837871	TP9 1.00	SOIL	NAD	none	D Wilkinson
837872	TP9 1.60	SOIL	Chrysotile	Chrysotile present as fibre bundles	D Wilkinson
837873	TP10 0.50	SOIL	Amosite	Amosite present as small fibre bundle	D Wilkinson
837874	TP10 1.40	SOIL	NAD	none	D Wilkinson
837875	TP10 2.20	SOIL	Chrysotile	Chrysotile present as fibre bundles	D Wilkinson
837876	TP11 0.50	SOIL	Chrysotile	Chrysotile present as small fibre bundle	D Wilkinson
837877	TP11 1.00	SOIL	NAD	none	D Wilkinson

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where

Summary of Asbestos Analysis

Soil Samples

Our Ref 15-40034-2

Client Ref 12032

Contract Title Herbert Road

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.					

Summary of Asbestos Quantification Analysis

Soil Samples

Our Ref 15-40034-2
 Client Ref 12032
 Contract Title Herbert Road

Lab No	837848	837850	837851	837855
Sample ID	TP1	TP2	TP2	TP4
Depth	3.00	2.00	2.90	0.50
Other ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time				

Test	Method	Units				
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	< 0.001	< 0.001	< 0.001	< 0.001
Gravimetric Quantification (a)	DETSC 1102	Mass %	na	na	na	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	<0.001	<0.001	<0.001	<0.001
Quantification by PCOM (c)	DETSC 1102	Mass %	na	na	na	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g	na	na	na	na

Breakdown of Gravimetric Analysis (a)

Mass of Sample		g	1036.29	1075.16	1046.26	989.45
ACMs present*		type				
Mass of ACM in sample		g				
% ACM by mass		%				
% asbestos in ACM		%				
% asbestos in sample		%				

Breakdown of Detailed Gravimetric Analysis (b)

% Amphibole bundles in sample		Mass %	na	na	na	na
% Serpentine bundles in sample		Mass %	<0.001	<0.001	<0.001	<0.001

Breakdown of PCOM Analysis (c)

% Amphibole fibres in sample		Mass %	na	na	na	na
% Serpentine fibres in sample		Mass %	na	na	na	na

Breakdown of Potentially Respirable Fibre Analysis (d)

Amphibole fibres		Fibres/g	na	na	na	na
Chrysotile fibres		Fibres/g	na	na	na	na

* Denotes test or material description outside of UKAS accreditation.
 % asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264.
 Recommended sample size for quantification is approximately 1kg
 # denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

Our Ref 15-40034-2

Client Ref 12032

Contract Title Herbert Road

Lab No	837856	837857	837860	837862
Sample ID	TP4	TP4	TP5	TP6
Depth	2.00	3.00	3.00	2.00
Other ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time				

Test	Method	Units				
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	< 0.001	< 0.001	0.005	< 0.001
Gravimetric Quantification (a)	DETSC 1102	Mass %	na	na	na	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	<0.001	<0.001	0.005	<0.001
Quantification by PCOM (c)	DETSC 1102	Mass %	na	na	na	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g	na	na	na	na
Breakdown of Gravimetric Analysis (a)						
Mass of Sample		g	769.83	1181.87	1123.10	1055.83
ACMs present*		type				
Mass of ACM in sample		g				
% ACM by mass		%				
% asbestos in ACM		%				
% asbestos in sample		%				
Breakdown of Detailed Gravimetric Analysis (b)						
% Amphibole bundles in sample		Mass %	na	na	na	na
% Serpentine bundles in sample		Mass %	<0.001	<0.001	0.005	<0.001
Breakdown of PCOM Analysis (c)						
% Amphibole fibres in sample		Mass %	na	na	na	na
% Serpentine fibres in sample		Mass %	na	na	na	na
Breakdown of Potentially Respirable Fibre Analysis (d)						
Amphibole fibres		Fibres/g	na	na	na	na
Chrysotile fibres		Fibres/g	na	na	na	na

* Denotes test or material description outside of UKAS accreditation.
 % asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264.
 Recommended sample size for quantification is approximately 1kg
 # denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

Our Ref 15-40034-2

Client Ref 12032

Contract Title Herbert Road

Lab No	837863	837864	837865	837869
Sample ID	TP6	TP7	TP7	TP8
Depth	3.00	0.30	0.60	2.50
Other ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time				

Test	Method	Units				
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	0.003	< 0.001	< 0.001	< 0.001
Gravimetric Quantification (a)	DETSC 1102	Mass %	na	na	na	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	0.003	<0.001	<0.001	<0.001
Quantification by PCOM (c)	DETSC 1102	Mass %	na	na	na	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g	na	na	na	na
Breakdown of Gravimetric Analysis (a)						
Mass of Sample		g	997.47	460.41	502.83	664.80
ACMs present*		type				
Mass of ACM in sample		g				
% ACM by mass		%				
% asbestos in ACM		%				
% asbestos in sample		%				
Breakdown of Detailed Gravimetric Analysis (b)						
% Amphibole bundles in sample		Mass %	na	na	na	na
% Serpentine bundles in sample		Mass %	0.003	<0.001	<0.001	<0.001
Breakdown of PCOM Analysis (c)						
% Amphibole fibres in sample		Mass %	na	na	na	na
% Serpentine fibres in sample		Mass %	na	na	na	na
Breakdown of Potentially Respirable Fibre Analysis (d)						
Amphibole fibres		Fibres/g	na	na	na	na
Chrysotile fibres		Fibres/g	na	na	na	na

* Denotes test or material description outside of UKAS accreditation.
 % asbestos in Asbestos Containing Materials (ACMs) is determined by
 by reference to HSG 264.
 Recommended sample size for quantification is approximately 1kg
 # denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

Our Ref 15-40034-2
Client Ref 12032
Contract Title Herbert Road

Lab No	837870	837872	837873	837875
Sample ID	TP9	TP9	TP10	TP10
Depth	0.30	1.60	0.50	2.20
Other ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sampling Date	08/07/15	08/07/15	08/07/15	08/07/15
Sampling Time				

Test	Method	Units				
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	< 0.001	0.002	< 0.001	< 0.001
Gravimetric Quantification (a)	DETSC 1102	Mass %	na	na	na	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	<0.001	0.002	<0.001	<0.001
Quantification by PCOM (c)	DETSC 1102	Mass %	na	na	na	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g	na	na	na	na
Breakdown of Gravimetric Analysis (a)						
Mass of Sample		g	983.64	1171.10	576.91	695.43
ACMs present*		type				
Mass of ACM in sample		g				
% ACM by mass		%				
% asbestos in ACM		%				
% asbestos in sample		%				
Breakdown of Detailed Gravimetric Analysis (b)						
% Amphibole bundles in sample		Mass %	na	na	<0.001	na
% Serpentine bundles in sample		Mass %	<0.001	0.002	na	<0.001
Breakdown of PCOM Analysis (c)						
% Amphibole fibres in sample		Mass %	na	na	na	na
% Serpentine fibres in sample		Mass %	na	na	na	na
Breakdown of Potentially Respirable Fibre Analysis (d)						
Amphibole fibres		Fibres/g	na	na	na	na
Chrysotile fibres		Fibres/g	na	na	na	na

* Denotes test or material description outside of UKAS accreditation.
% asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

Summary of Asbestos Quantification Analysis Soil Samples

Our Ref 15-40034-2

Client Ref 12032

Contract Title Herbert Road

Lab No	837876
Sample ID	TP11
Depth	0.50
Other ID	
Sample Type	SOIL
Sampling Date	08/07/15
Sampling Time	

Test	Method	Units	
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	< 0.001
Gravimetric Quantification (a)	DETSC 1102	Mass %	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	<0.001
Quantification by PCOM (c)	DETSC 1102	Mass %	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g	na

Breakdown of Gravimetric Analysis (a)

Mass of Sample		g	457.75
ACMs present*		type	
Mass of ACM in sample		g	
% ACM by mass		%	
% asbestos in ACM		%	
% asbestos in sample		%	

Breakdown of Detailed Gravimetric Analysis (b)

% Amphibole bundles in sample		Mass %	na
% Serpentine bundles in sample		Mass %	<0.001

Breakdown of PCOM Analysis (c)

% Amphibole fibres in sample		Mass %	na
% Serpentine fibres in sample		Mass %	na

Breakdown of Potentially Respirable Fibre Analysis (d)

Amphibole fibres		Fibres/g	na
Chrysotile fibres		Fibres/g	na

* Denotes test or material description outside of UKAS accreditation.
 % asbestos in Asbestos Containing Materials (ACMs) is determined by
 by reference to HSG 264.
 Recommended sample size for quantification is approximately 1kg
 # denotes deviating sample

Information in Support of the Analytical Results

Our Ref 15-40034-2
Client Ref 12032
Contract Herbert Road

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
837846	TP1 1.00 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837847	TP1 2.00 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837848	TP1 3.00 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837849	TP2 1.00 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837850	TP2 2.00 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837851	TP2 2.90 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837852	TP3 0.50 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837853	TP3 1.50 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837854	TP3 3.50 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837855	TP4 0.50 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837856	TP4 2.00 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837857	TP4 3.00 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837858	TP5 1.00 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837859	TP5 2.00 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837860	TP5 3.00 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837861	TP6 0.50 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837862	TP6 2.00 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837863	TP6 3.00 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837864	TP7 0.30 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837865	TP7 0.60 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837866	TP7 2.00 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837867	TP8 0.50 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837868	TP8 2.00 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837869	TP8 2.50 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837870	TP9 0.30 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837871	TP9 1.00 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837872	TP9 1.60 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837873	TP10 0.50 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837874	TP10 1.40 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837875	TP10 2.20 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837876	TP11 0.50 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837877	TP11 1.00 SOIL	08/07/15	GJ 250ml x2, PT 1L x2		
837878	TP1 1.00 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837879	TP1 2.00 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837880	TP1 3.00 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837881	TP2 1.00 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837882	TP2 2.00 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837883	TP2 2.90 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837884	TP3 0.50 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837885	TP3 1.50 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837886	TP3 3.50 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837887	TP4 0.50 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837888	TP4 2.00 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837889	TP4 3.00 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837890	TP5 1.00 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837891	TP5 2.00 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837892	TP5 3.00 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837893	TP6 0.50 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837894	TP6 2.00 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		

Information in Support of the Analytical Results

Our Ref 15-40034-2
Client Ref 12032
Contract Herbert Road

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
837895	TP6 3.00 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837896	TP7 0.30 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837897	TP7 0.60 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837898	TP7 2.00 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837899	TP8 0.50 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837900	TP8 2.00 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837901	TP8 2.50 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837902	TP9 0.30 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837903	TP9 1.00 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837904	TP9 1.60 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837905	TP10 0.50 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837906	TP10 1.40 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837907	TP10 2.20 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837908	TP11 0.50 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		
837909	TP11 1.00 LEACHATE	08/07/15	GJ 250ml x2, PT 1L x2		

Key: G-Glass P-Plastic J-Jar T-Tub

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time and/or inappropriate containers are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Appendix A - Details of Analysis

Method	Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
DETS 2002	Organic matter	%	0.1	Air Dried	No	Yes	Yes
DETS 2003	Loss on ignition	%	0.01	Air Dried	No	Yes	Yes
DETS 2008	pH	pH Units	1	Air Dried	No	Yes	Yes
DETS 2024	Sulphide	mg/kg	10	Air Dried	No	Yes	Yes
DETS 2076	Sulphate Aqueous Extract as SO4	mg/l	10	Air Dried	No	Yes	Yes
DETS 2084	Total Carbon	%	0.5	Air Dried	No	Yes	Yes
DETS 2084	Total Organic Carbon	%	0.5	Air Dried	No	Yes	Yes
DETS 2119	Ammoniacal Nitrogen as N	mg/kg	0.5	Air Dried	No	Yes	Yes
DETS 2130	Cyanide free	mg/kg	0.1	Air Dried	No	Yes	Yes
DETS 2130	Cyanide total	mg/kg	0.1	Air Dried	No	Yes	Yes
DETS 2130	Phenol - Monohydric	mg/kg	0.3	Air Dried	No	Yes	Yes
DETS 2130	Thiocyanate	mg/kg	0.6	Air Dried	No	Yes	Yes
DETS 2321	Total Sulphate as SO4	%	0.01	Air Dried	No	Yes	Yes
DETS 2325	Mercury	mg/kg	0.05	Air Dried	No	Yes	Yes
DETS 3049	Sulphur (free)	mg/kg	0.75	Air Dried	No	Yes	Yes
DETS 2123	Boron (water soluble)	mg/kg	0.2	Air Dried	No	Yes	Yes
DETS 2301	Arsenic	mg/kg	0.2	Air Dried	No	Yes	Yes
DETS 2301	Barium	mg/kg	1.5	Air Dried	No	Yes	Yes
DETS 2301	Beryllium	mg/kg	0.2	Air Dried	No	Yes	Yes
DETS 2301	Cadmium Available	mg/kg	0.1	Air Dried	No	Yes	Yes
DETS 2301	Cadmium	mg/kg	0.1	Air Dried	No	Yes	Yes
DETS 2301	Cobalt	mg/kg	0.7	Air Dried	No	Yes	Yes
DETS 2301	Chromium	mg/kg	0.15	Air Dried	No	Yes	Yes
DETS 2301	Copper	mg/kg	0.2	Air Dried	No	Yes	Yes
DETS 2301	Manganese	mg/kg	20	Air Dried	No	Yes	Yes
DETS 2301	Molybdenum	mg/kg	0.4	Air Dried	No	Yes	Yes
DETS 2301	Nickel	mg/kg	1	Air Dried	No	Yes	Yes
DETS 2301	Lead	mg/kg	0.3	Air Dried	No	Yes	Yes
DETS 2301	Selenium	mg/kg	0.5	Air Dried	No	Yes	Yes
DETS 2301	Zinc	mg/kg	1	Air Dried	No	Yes	Yes
DETS 3072	Ali/Aro C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aliphatic C10-C12	mg/kg	1.5	As Received	No	Yes	Yes
DETS 3072	Aliphatic C10-C12	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aliphatic C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aliphatic C12-C16	mg/kg	1.2	As Received	No	Yes	Yes
DETS 3072	Aliphatic C12-C16	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aliphatic C16-C21	mg/kg	1.5	As Received	No	Yes	Yes
DETS 3072	Aliphatic C16-C21	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aliphatic C21-C35	mg/kg	3.4	As Received	No	Yes	Yes
DETS 3072	Aliphatic C21-C35	mg/kg	3.4	As Received	No	Yes	Yes
DETS 3072	Aromatic C10-C12	mg/kg	0.9	As Received	No	Yes	Yes
DETS 3072	Aromatic C10-C12	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aromatic C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aromatic C12-C16	mg/kg	0.5	As Received	No	Yes	Yes
DETS 3072	Aromatic C12-C16	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aromatic C16-C21	mg/kg	0.6	As Received	No	Yes	Yes
DETS 3072	Aromatic C16-C21	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aromatic C21-C35	mg/kg	1.4	As Received	No	Yes	Yes
DETS 3072	Aromatic C21-C35	mg/kg	1.4	As Received	No	Yes	Yes
DETS 062	Benzene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	Ethylbenzene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	Toluene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	m+p Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	o Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3311	C10-C24 Diesel Range Organics (DRO)	mg/kg	10	As Received	No	Yes	Yes
DETS 3311	C24-C40 Lube Oil Range Organics (LORO)	mg/kg	10	As Received	No	Yes	Yes
DETS 3311	EPH (C10-C40)	mg/kg	10	As Received	No	Yes	Yes

Appendix A - Details of Analysis

Method	Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
DETS 3303	Acenaphthene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Acenaphthylene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(a)pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(a)anthracene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(b)fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(k)fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(g,h,i)perylene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Dibenzo(a,h)anthracene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Indeno(1,2,3-c,d)pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Naphthalene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Phenanthrene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3401	PCB 28 + PCB 31	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 52	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 101	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 118	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 153	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 138	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 180	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB Total	mg/kg	0.01	As Received	No	Yes	Yes

Method details are shown only for those determinands listed in Annex A of the MCERTS standard. Anything not included on this list falls outside the scope of MCERTS. No Recovery Factors are used in the determination of results. Results reported assume 100% recovery. Full method statements are available on request.



Certificate of Analysis

Certificate Number 15-40314

03-Aug-15

Client Terra Firma (Wales) Ltd
5 Deryn Court
Wharfdale Road
Pentwyn
Cardiff
CF23 7HB

Our Reference 15-40314

Client Reference 12032

Contract Title Herbert Road

Description 24 Soil samples, 24 Leachate samples.

Date Received 15-Jul-15

Date Started 15-Jul-15

Date Completed 03-Aug-15

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the scope of UKAS accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. Observations and interpretations are outside the scope of ISO 17025. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

A handwritten signature in black ink, appearing to read 'Rob Brown'.

Rob Brown
Business Manager



Summary of Chemical Analysis

Matrix Descriptions

Our Ref 15-40314

Client Ref 12032

Contract Title Herbert Road

Sample ID	Depth	Lab No	Completed	Matrix Description
TP12	1	839276	03/08/2015	Brown, gravelly, sandy CLAY
TP12	2	839277	03/08/2015	Brown, gravelly, sandy CLAY
TP12	3	839278	03/08/2015	Brown, gravelly, sandy CLAY
TP13	1	839279	03/08/2015	Brown, gravelly, sandy CLAY
TP13	2	839280	03/08/2015	Brown, gravelly, sandy CLAY
TP13	3	839281	03/08/2015	Brown, gravelly, sandy CLAY
TP14	1	839282	03/08/2015	Brown, gravelly, sandy CLAY
TP14	2	839283	03/08/2015	Brown, gravelly, sandy CLAY
TP14	3	839284	03/08/2015	Brown, gravelly, sandy CLAY
TP15	0.3	839285	03/08/2015	Brown, gravelly, sandy CLAY
TP15	1	839286	03/08/2015	Brown, gravelly, sandy CLAY
TP15	2.2	839287	03/08/2015	Brown, gravelly, sandy CLAY
TP16	0.5	839288	03/08/2015	Brown, gravelly, sandy CLAY
TP16	1.5	839289	03/08/2015	Brown, gravelly, sandy CLAY
TP16	2.5	839290	03/08/2015	Brown, gravelly, sandy CLAY
TP17	0.5	839291	03/08/2015	Brown, gravelly, sandy CLAY
TP17	1.5	839292	03/08/2015	Brown, gravelly, sandy CLAY
TP17	2.5	839293	03/08/2015	Brown, gravelly, sandy CLAY
TP18	0.5	839294	03/08/2015	Brown, gravelly, sandy CLAY
TP18	1.5	839295	03/08/2015	Brown, gravelly, sandy CLAY
TP18	2.5	839296	03/08/2015	Brown, gravelly, sandy CLAY
TP19	0.5	839297	03/08/2015	Brown, gravelly, sandy CLAY
TP19	1.5	839298	03/08/2015	Brown, gravelly, sandy CLAY
TP19	2.5	839299	03/08/2015	Brown, gravelly, sandy CLAY

Summary of Chemical Analysis

Soil Samples

Our Ref 15-40314
 Client Ref 12032
 Contract Title Herbert Road

Lab No	839276	839277	839278	839279	839280	839281
Sample ID	TP12	TP12	TP12	TP13	TP13	TP13
Depth	1.00	2.00	3.00	1.00	2.00	3.00
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Asbestos Quantification OHR	DETSC 1102	0			Y				
Preparation									
Moisture Content	DETSC 1004*	0.1	%	16	21	23	13	19	16
Metals									
Antimony	DETSC 2301*	1	mg/kg	2.3	2.8	1.5	2.6	3.5	1.5
Arsenic	DETSC 2301#	0.2	mg/kg	6.7	12	9.6	16	23	7.5
Beryllium	DETSC 2301#	0.2	mg/kg	0.6	0.8	0.5	1.2	0.9	0.6
Boron (water soluble)	DETSC 2123#	0.2	mg/kg	1.5	1.7	1.6	1.6	1.5	1.5
Cadmium	DETSC 2301#	0.1	mg/kg	0.6	1.8	0.6	0.6	0.7	0.5
Chromium	DETSC 2301#	0.15	mg/kg	120	40	16	26	23	25
Chromium III	DETSC 2301*	0.15	mg/kg	120	40	16	26	23	25
Hexavalent Chromium	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	25	54	20	37	56	17
Lead	DETSC 2301#	0.3	mg/kg	35	84	70	110	180	35
Manganese	DETSC 2301#	20	mg/kg	1200	960	630	850	710	830
Mercury	DETSC 2325#	0.05	mg/kg	0.10	0.36	0.22	0.29	0.66	0.14
Molybdenum	DETSC 2301#	0.4	mg/kg	1.6	1.1	0.8	1.5	1.8	0.6
Nickel	DETSC 2301#	1	mg/kg	19	21	14	22	25	17
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	73	150	90	130	190	97
Inorganics									
pH	DETSC 2008#			10.1	10.7	11.1	10.2	10.0	10.4
Cyanide Total	DETSC 2130#	0.1	mg/kg	0.2	0.1	< 0.1	< 0.1	< 0.1	0.5
Cyanide complex	DETSC 2130*	0.2	mg/kg	0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.5
Organic matter	DETSC 2002#	0.1	%	2.2	4.2	3.3	2.1	2.5	2.1
Total Sulphate as SO4	DETSC 2321#	0.01	%	0.12	0.16	0.25	0.23	0.16	0.17

Summary of Chemical Analysis

Soil Samples

Our Ref 15-40314
 Client Ref 12032
 Contract Title Herbert Road

Lab No	839276	839277	839278	839279	839280	839281
Sample ID	TP12	TP12	TP12	TP13	TP13	TP13
Depth	1.00	2.00	3.00	1.00	2.00	3.00
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2	4.0	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	13	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4	47	< 3.4	14
Aliphatic C35-C44	DETSC 3072*	3.4	mg/kg	< 3.4	< 3.4	< 3.4	13	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	64	< 10	14
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	3.1	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6	22	2.8	19
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4	84	4.3	67
Aromatic C35-C44	DETSC 3072*	1.4	mg/kg	< 1.4	< 1.4	< 1.4	25	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	110	< 10	86
TPH Ali/Aro	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	170	< 10	100
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	0.04	< 0.03	0.22	0.19	0.17
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.22	0.12	0.17
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.18	0.10	0.17
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.08	0.21	0.20	1.4	0.99	1.4
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	0.04	0.05	0.35	0.23	0.34
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.14	0.36	0.20	2.1	1.6	2.1
Pyrene	DETSC 3303#	0.03	mg/kg	0.13	0.30	0.15	1.9	1.3	1.8
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.07	0.15	0.06	0.82	0.57	0.78
Chrysene	DETSC 3303	0.03	mg/kg	0.08	0.18	0.07	0.92	0.61	0.85
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.08	0.19	0.06	0.94	0.61	0.89
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.07	< 0.03	0.31	0.23	0.30
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.05	0.12	0.05	0.69	0.44	0.63
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.03	0.07	< 0.03	0.32	0.19	0.29
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.10	0.07	0.10
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	0.07	< 0.03	0.37	0.22	0.32
Total PAH - USEPA 16	DETSC 3303	0.1	mg/kg	0.66	1.8	0.84	11	7.5	10
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 15-40314
 Client Ref 12032
 Contract Title Herbert Road

Lab No	839282	839283	839284	839285	839286	839287
Sample ID	TP14	TP14	TP14	TP15	TP15	TP15
Depth	1.00	2.00	3.00	0.30	1.00	2.20
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Asbestos Quantification OHR	DETSC 1102	0			Y				Y
Preparation									
Moisture Content	DETSC 1004*	0.1	%	19	10	28	14	15	19
Metals									
Antimony	DETSC 2301*	1	mg/kg	2.3	2.2	1.8	1.9	2.3	2.4
Arsenic	DETSC 2301#	0.2	mg/kg	11	13	8.5	8.1	11	9.5
Beryllium	DETSC 2301#	0.2	mg/kg	0.4	0.6	1.0	0.7	1.8	0.8
Boron (water soluble)	DETSC 2123#	0.2	mg/kg	1.6	1.6	1.2	1.2	1.4	1.7
Cadmium	DETSC 2301#	0.1	mg/kg	0.4	0.6	0.5	0.5	0.5	0.6
Chromium	DETSC 2301#	0.15	mg/kg	17	20	35	22	25	32
Chromium III	DETSC 2301*	0.15	mg/kg	17	20	35	22	25	32
Hexavalent Chromium	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	65	30	33	21	31	34
Lead	DETSC 2301#	0.3	mg/kg	85	43	42	52	61	39
Manganese	DETSC 2301#	20	mg/kg	540	660	760	880	1600	800
Mercury	DETSC 2325#	0.05	mg/kg	0.50	0.17	0.17	0.07	0.17	0.10
Molybdenum	DETSC 2301#	0.4	mg/kg	1.1	1.1	1.3	0.6	1.0	1.2
Nickel	DETSC 2301#	1	mg/kg	17	17	32	21	16	27
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	1.0	< 0.5
Zinc	DETSC 2301#	1	mg/kg	110	95	90	67	96	92
Inorganics									
pH	DETSC 2008#			10.1	7.6	8.5	8.7	8.8	9.6
Cyanide Total	DETSC 2130#	0.1	mg/kg	< 0.1	0.4	0.4	0.2	0.3	0.2
Cyanide complex	DETSC 2130*	0.2	mg/kg	< 0.2	< 0.2	0.4	< 0.2	0.3	< 0.2
Organic matter	DETSC 2002#	0.1	%	3.4	4.0	3.3	1.5	4.1	2.3
Total Sulphate as SO4	DETSC 2321#	0.01	%	0.19	0.09	0.06	0.09	0.27	0.14

Summary of Chemical Analysis

Soil Samples

Our Ref 15-40314
 Client Ref 12032
 Contract Title Herbert Road

Lab No	839282	839283	839284	839285	839286	839287
Sample ID	TP14	TP14	TP14	TP15	TP15	TP15
Depth	1.00	2.00	3.00	0.30	1.00	2.20
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	0.08	0.07	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
Aliphatic C35-C44	DETSC 3072*	3.4	mg/kg	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	0.01	0.01	0.01	< 0.01	0.01	0.02
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Aromatic C35-C44	DETSC 3072*	1.4	mg/kg	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10
TPH Ali/Aro	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	0.05	0.07	< 0.03	< 0.03	0.15	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.08	< 0.03	< 0.03	0.09	0.06
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	0.08	< 0.03	< 0.03	0.08	0.06
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.19	0.62	0.08	0.05	0.40	0.25
Anthracene	DETSC 3303	0.03	mg/kg	0.05	0.13	< 0.03	< 0.03	0.09	0.04
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.30	0.96	0.15	0.08	0.53	0.21
Pyrene	DETSC 3303#	0.03	mg/kg	0.24	0.76	0.12	0.07	0.50	0.17
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.11	0.33	0.06	0.03	0.17	0.05
Chrysene	DETSC 3303	0.03	mg/kg	0.13	0.40	0.09	0.03	0.20	0.05
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.14	0.42	0.09	< 0.03	0.17	0.05
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.05	0.12	< 0.03	< 0.03	0.07	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.08	0.26	0.05	< 0.03	0.12	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.06	0.14	0.04	< 0.03	0.06	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	0.04	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.05	0.14	< 0.03	< 0.03	0.06	< 0.03
Total PAH - USEPA 16	DETSC 3303	0.1	mg/kg	1.4	4.5	0.68	0.26	2.7	0.93
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.4	< 0.3	< 0.3	< 0.3	< 0.3	0.4

Summary of Chemical Analysis

Soil Samples

Our Ref 15-40314
 Client Ref 12032
 Contract Title Herbert Road

Lab No	839288	839289	839290	839291	839292	839293
Sample ID	TP16	TP16	TP16	TP17	TP17	TP17
Depth	0.50	1.50	2.50	0.50	1.50	2.50
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Asbestos Quantification OHR	DETSC 1102	0							
Preparation									
Moisture Content	DETSC 1004*	0.1	%	23	16	22	17	22	18
Metals									
Antimony	DETSC 2301*	1	mg/kg	3.3	1.8	2.4	2.2	2.0	1.6
Arsenic	DETSC 2301#	0.2	mg/kg	9.4	5.1	7.1	8.3	8.9	7.1
Beryllium	DETSC 2301#	0.2	mg/kg	0.9	0.9	1.0	0.7	0.7	0.6
Boron (water soluble)	DETSC 2123#	0.2	mg/kg	1.7	2.1	2.2	1.5	2.3	1.7
Cadmium	DETSC 2301#	0.1	mg/kg	0.8	0.5	0.8	0.8	0.7	1.0
Chromium	DETSC 2301#	0.15	mg/kg	39	59	64	25	35	24
Chromium III	DETSC 2301*	0.15	mg/kg	39	59	64	25	35	24
Hexavalent Chromium	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	43	13	21	21	24	19
Lead	DETSC 2301#	0.3	mg/kg	52	22	49	81	66	84
Manganese	DETSC 2301#	20	mg/kg	960	2000	1400	700	760	880
Mercury	DETSC 2325#	0.05	mg/kg	0.15	< 0.05	0.13	0.08	0.15	0.13
Molybdenum	DETSC 2301#	0.4	mg/kg	0.8	0.6	1.0	0.7	1.0	0.6
Nickel	DETSC 2301#	1	mg/kg	23	24	26	27	20	19
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	110	56	99	110	110	99
Inorganics									
pH	DETSC 2008#			9.9	11.2	10.4	9.8	9.9	10.9
Cyanide Total	DETSC 2130#	0.1	mg/kg	0.2	0.1	0.2	0.2	0.2	0.2
Cyanide complex	DETSC 2130*	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Organic matter	DETSC 2002#	0.1	%	2.5	1.1	2.2	1.6	2.5	1.8
Total Sulphate as SO4	DETSC 2321#	0.01	%	0.14	0.16	0.13	0.10	0.14	0.12

Summary of Chemical Analysis

Soil Samples

Our Ref 15-40314
 Client Ref 12032
 Contract Title Herbert Road

Lab No	839288	839289	839290	839291	839292	839293
Sample ID	TP16	TP16	TP16	TP17	TP17	TP17
Depth	0.50	1.50	2.50	0.50	1.50	2.50
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
Aliphatic C35-C44	DETSC 3072*	3.4	mg/kg	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Aromatic C35-C44	DETSC 3072*	1.4	mg/kg	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10
TPH Ali/Aro	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.05	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	0.04	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.23	0.10	0.07	0.11	0.12	0.12
Anthracene	DETSC 3303	0.03	mg/kg	0.05	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.38	0.21	0.15	0.29	0.34	0.27
Pyrene	DETSC 3303#	0.03	mg/kg	0.31	0.17	0.12	0.55	0.53	0.45
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.12	0.07	0.06	0.08	0.09	0.07
Chrysene	DETSC 3303	0.03	mg/kg	0.16	0.08	0.07	0.09	0.10	0.08
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.17	0.10	0.09	0.11	0.10	0.09
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.05	0.03	< 0.03	< 0.03	< 0.03	0.05
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.10	0.07	0.06	0.08	0.09	0.08
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.06	0.05	0.05	0.06	0.05	0.06
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.06	0.05	0.04	0.09	0.09	0.09
Total PAH - USEPA 16	DETSC 3303	0.1	mg/kg	1.8	0.94	0.71	1.5	1.5	1.4
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 15-40314
 Client Ref 12032
 Contract Title Herbert Road

Lab No	839294	839295	839296	839297	839298	839299
Sample ID	TP18	TP18	TP18	TP19	TP19	TP19
Depth	0.50	1.50	2.50	0.50	1.50	2.50
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units							
Asbestos Quantification OHR	DETSC 1102	0		Y						
Preparation										
Moisture Content	DETSC 1004*	0.1	%	17	23	24	15	19	21	
Metals										
Antimony	DETSC 2301*	1	mg/kg	2.1	1.9	2.5	1.5	2.0	2.6	
Arsenic	DETSC 2301#	0.2	mg/kg	8.7	7.7	9.3	7.2	11	7.7	
Beryllium	DETSC 2301#	0.2	mg/kg	0.6	0.6	0.8	0.7	0.8	0.6	
Boron (water soluble)	DETSC 2123#	0.2	mg/kg	1.9	2.1	2.3	1.3	1.3	2.4	
Cadmium	DETSC 2301#	0.1	mg/kg	0.5	0.6	0.8	1.2	0.8	0.7	
Chromium	DETSC 2301#	0.15	mg/kg	19	23	49	19	32	100	
Chromium III	DETSC 2301*	0.15	mg/kg	19	23	49	19	32	100	
Hexavalent Chromium	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Copper	DETSC 2301#	0.2	mg/kg	19	19	24	18	19	48	
Lead	DETSC 2301#	0.3	mg/kg	93	48	74	39	120	38	
Manganese	DETSC 2301#	20	mg/kg	460	600	870	870	1200	1300	
Mercury	DETSC 2325#	0.05	mg/kg	0.08	0.09	0.07	< 0.05	0.05	0.06	
Molybdenum	DETSC 2301#	0.4	mg/kg	0.7	0.6	0.9	0.6	0.6	1.1	
Nickel	DETSC 2301#	1	mg/kg	18	18	21	19	27	16	
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
Zinc	DETSC 2301#	1	mg/kg	93	90	130	96	120	98	
Inorganics										
pH	DETSC 2008#			11.5	10.8	9.9	10.2	11.2	10.6	
Cyanide Total	DETSC 2130#	0.1	mg/kg	0.2	0.1	0.2	0.1	0.1	0.2	
Cyanide complex	DETSC 2130*	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	
Organic matter	DETSC 2002#	0.1	%	1.7	1.8	1.6	4.2	3.3	2.1	
Total Sulphate as SO4	DETSC 2321#	0.01	%	0.19	0.21	0.14	0.11	0.14	0.24	

Summary of Chemical Analysis

Soil Samples

Our Ref 15-40314
 Client Ref 12032
 Contract Title Herbert Road

Lab No	839294	839295	839296	839297	839298	839299
Sample ID	TP18	TP18	TP18	TP19	TP19	TP19
Depth	0.50	1.50	2.50	0.50	1.50	2.50
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	0.22	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	0.26	< 0.01	< 0.01	< 0.01	0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	0.14	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
Aliphatic C35-C44	DETSC 3072*	3.4	mg/kg	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	0.02	< 0.01	< 0.01	0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	0.15	< 0.01	< 0.01	0.01	0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Aromatic C35-C44	DETSC 3072*	1.4	mg/kg	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10
TPH Ali/Aro	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.04
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.16	0.22	0.17	0.05	0.07	0.34
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	0.04	< 0.03	< 0.03	< 0.03	0.05
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.29	0.49	0.36	0.10	0.11	0.52
Pyrene	DETSC 3303#	0.03	mg/kg	0.43	0.60	0.48	0.24	0.25	0.57
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.07	0.16	0.10	< 0.03	< 0.03	0.17
Chrysene	DETSC 3303	0.03	mg/kg	0.09	0.21	0.12	< 0.03	< 0.03	0.23
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.07	0.20	0.11	< 0.03	< 0.03	0.21
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.06	0.05	< 0.03	< 0.03	0.07
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.06	0.16	< 0.03	< 0.03	< 0.03	0.16
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.05	0.10	0.07	< 0.03	< 0.03	0.10
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.07	0.14	0.10	< 0.03	0.06	0.14
Total PAH - USEPA 16	DETSC 3303	0.1	mg/kg	1.3	2.4	1.6	0.39	0.49	2.6
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Leachate Samples

Our Ref 15-40314

Client Ref 12032

Contract Title Herbert Road

Lab No	839300	839301	839302	839303	839304	839305
Sample ID	TP12	TP12	TP12	TP13	TP13	TP13
Depth	1.00	2.00	3.00	1.00	2.00	3.00
Other ID						
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Preparation									
NRA Leachate Preparation	DETS 036*			Y	Y	Y	Y	Y	Y
Metals									
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	1.4	4.7	2.0	7.4	5.0	2.3
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	0.28	< 0.25	0.41	0.31	< 0.25
Chromium III Dissolved	DETSC 2302*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexavalent Chromium	DETSC 2203	3	ug/l	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	2.4	4.3	2.5	5.4	2.8	1.1
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.67	2.4	0.39	1.0	0.94	0.26
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	0.01	< 0.01	0.02	0.02	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	0.8	1.1	0.9	1.0	0.6	0.5
Selenium, Dissolved	DETSC 2306	0.25	ug/l	0.54	0.56	0.44	0.71	1.2	0.71
Zinc, Dissolved	DETSC 2306	1.25	ug/l	1.52	2.12	2.20	2.46	1.41	2.08
Inorganics									
pH	DETSC 2008			7.1	7.1	7.1	9.0	8.4	8.0
Cyanide Total	DETSC 2130	40	ug/l	< 40	< 40	< 40	< 40	< 40	< 40
Chloride	DETSC 2055	0.1	mg/l	15	82	130	1.5	1.7	1.0
Fluoride	DETSC 2055	0.1	mg/l	0.14	0.14	0.17	< 0.10	0.11	< 0.10
Sulphate as SO4	DETSC 2055	0.1	mg/l	19	6.2	7.0	5.8	11	51
Total Organic Carbon	DETSC 2033	2	mg/l	6.4	6.4	6.6	5.5	5.1	3.7
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	14	< 10	< 10	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10
TPH Ali/Aro	DETSC 3072*	10	ug/l	14	< 10	< 10	< 10	< 10	< 10

Summary of Chemical Analysis

Leachate Samples

Our Ref 15-40314

Client Ref 12032

Contract Title Herbert Road

Lab No	839300	839301	839302	839303	839304	839305
Sample ID	TP12	TP12	TP12	TP13	TP13	TP13
Depth	1.00	2.00	3.00	1.00	2.00	3.00
Other ID						
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
PAHs									
Naphthalene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	0.04	< 0.01	0.42
Acenaphthylene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.05
Phenanthrene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	0.01	0.58
Anthracene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02
Fluoranthene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	0.04	0.04	0.56
Pyrene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	0.06	0.05	0.30
Benzo(a)anthracene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	0.01	0.03	0.01
Chrysene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	0.02	0.03	< 0.01
Benzo(b)fluoranthene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	0.03	0.03	< 0.01
Benzo(k)fluoranthene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	0.01	0.02	< 0.01
Benzo(a)pyrene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	0.03	0.03	< 0.01
Indeno(1,2,3-c,d)pyrene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,h)anthracene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perylene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PAH	DETS 074*	0.2	ug/l	< 0.20	< 0.20	< 0.20	0.24	0.24	2.0
Phenols									
Phenol	*	0.5	ug/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Summary of Chemical Analysis

Leachate Samples

Our Ref 15-40314

Client Ref 12032

Contract Title Herbert Road

Lab No	839306	839307	839308	839309	839310	839311
Sample ID	TP14	TP14	TP14	TP15	TP15	TP15
Depth	1.00	2.00	3.00	0.30	1.00	2.20
Other ID						
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Preparation									
NRA Leachate Preparation	DETS 036*			Y	Y	Y	Y	Y	Y
Metals									
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	4.2	7.2	2.6	0.70	3.3	5.0
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	0.42	0.29	0.30	< 0.25	0.29
Chromium III Dissolved	DETSC 2302*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexavalent Chromium	DETSC 2203	3	ug/l	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	6.8	16	3.4	3.1	3.1	4.9
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.27	1.5	1.1	0.50	1.2	0.61
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.01	0.03	0.01	< 0.01	0.01	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	2.0	2.1	1.3	22	1.1	1.7
Selenium, Dissolved	DETSC 2306	0.25	ug/l	1.1	1.0	0.80	0.70	0.45	0.75
Zinc, Dissolved	DETSC 2306	1.25	ug/l	< 1.25	< 1.25	1.53	6.20	1.96	< 1.25
Inorganics									
pH	DETSC 2008			8.7	8.6	8.1	8.0	7.9	7.8
Cyanide Total	DETSC 2130	40	ug/l	< 40	< 40	< 40	< 40	< 40	< 40
Chloride	DETSC 2055	0.1	mg/l	1.8	20	17	2.0	1.3	2.7
Fluoride	DETSC 2055	0.1	mg/l	< 0.10	< 0.10	0.13	< 0.10	< 0.10	< 0.10
Sulphate as SO4	DETSC 2055	0.1	mg/l	10	8.9	26	19	3.9	5.2
Total Organic Carbon	DETSC 2033	2	mg/l	3.8	13	5.7	4.7	4.6	9.7
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10
TPH Ali/Aro	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10

Summary of Chemical Analysis

Leachate Samples

Our Ref 15-40314

Client Ref 12032

Contract Title Herbert Road

Lab No	839306	839307	839308	839309	839310	839311
Sample ID	TP14	TP14	TP14	TP15	TP15	TP15
Depth	1.00	2.00	3.00	0.30	1.00	2.20
Other ID						
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
PAHs									
Naphthalene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	0.04	< 0.01
Pyrene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	0.04	< 0.01
Benzo(a)anthracene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01
Chrysene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01
Benzo(b)fluoranthene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01
Benzo(k)fluoranthene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01
Benzo(a)pyrene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01
Indeno(1,2,3-c,d)pyrene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,h)anthracene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perylene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PAH	DETS 074*	0.2	ug/l	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Phenols									
Phenol	*	0.5	ug/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Summary of Chemical Analysis

Leachate Samples

Our Ref 15-40314

Client Ref 12032

Contract Title Herbert Road

Lab No	839312	839313	839314	839315	839316	839317
Sample ID	TP16	TP16	TP16	TP17	TP17	TP17
Depth	0.50	1.50	2.50	0.50	1.50	2.50
Other ID						
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Preparation									
NRA Leachate Preparation	DETS 036*			Y	Y	Y	Y	Y	Y
Metals									
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	1.7	2.0	2.9	5.6	7.5	4.8
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	0.31	< 0.25	< 0.25	< 0.25	0.27
Chromium III Dissolved	DETSC 2302*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexavalent Chromium	DETSC 2203	3	ug/l	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	2.1	1.3	3.0	2.1	6.7	2.6
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.86	< 0.09	0.12	1.3	1.1	3.1
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	0.6	0.8	1.0	0.8	2.1	1.5
Selenium, Dissolved	DETSC 2306	0.25	ug/l	0.57	0.56	0.64	0.46	0.76	0.54
Zinc, Dissolved	DETSC 2306	1.25	ug/l	< 1.25	1.67	< 1.25	< 1.25	< 1.25	2.14
Inorganics									
pH	DETSC 2008			7.7	8.9	9.3	8.2	8.2	7.9
Cyanide Total	DETSC 2130	40	ug/l	< 40	< 40	< 40	< 40	< 40	< 40
Chloride	DETSC 2055	0.1	mg/l	1.8	1.1	0.99	1.6	2.0	2.2
Fluoride	DETSC 2055	0.1	mg/l	0.17	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Sulphate as SO4	DETSC 2055	0.1	mg/l	4.4	7.0	5.8	4.8	6.6	6.7
Total Organic Carbon	DETSC 2033	2	mg/l	10	17	3.7	16	7.5	11
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	4.0	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10
TPH Ali/Aro	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10

Summary of Chemical Analysis

Leachate Samples

Our Ref 15-40314

Client Ref 12032

Contract Title Herbert Road

Lab No	839312	839313	839314	839315	839316	839317
Sample ID	TP16	TP16	TP16	TP17	TP17	TP17
Depth	0.50	1.50	2.50	0.50	1.50	2.50
Other ID						
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
PAHs									
Naphthalene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	4.0	< 0.01	< 0.01	< 0.01
Acenaphthylene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	0.02	< 0.01	< 0.01	< 0.01
Fluorene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	0.47	< 0.01	< 0.01	< 0.01
Anthracene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	0.02	< 0.01	< 0.01	< 0.01
Fluoranthene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	4.5	< 0.01	< 0.01	< 0.01
Pyrene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	2.2	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-c,d)pyrene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,h)anthracene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perylene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PAH	DETS 074*	0.2	ug/l	< 0.20	< 0.20	11	< 0.20	< 0.20	< 0.20
Phenols									
Phenol	*	0.5	ug/l	< 0.50	< 0.50	< 0.50	< 0.50	1.8	< 0.50

Summary of Chemical Analysis

Leachate Samples

Our Ref 15-40314

Client Ref 12032

Contract Title Herbert Road

Lab No	839318	839319	839320	839321	839322	839323
Sample ID	TP18	TP18	TP18	TP19	TP19	TP19
Depth	0.50	1.50	2.50	0.50	1.50	2.50
Other ID						
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Preparation									
NRA Leachate Preparation	DETS 036*			Y	Y	Y	Y	Y	Y
Metals									
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	7.4	1.8	6.0	2.5	3.6	4.2
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	0.30	0.35	0.35	0.32	< 0.25	< 0.25
Chromium III Dissolved	DETSC 2302*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexavalent Chromium	DETSC 2203	3	ug/l	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	5.0	9.1	3.6	2.7	3.4	5.4
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.52	0.13	1.3	0.68	0.35	0.24
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01	< 0.01	0.01	< 0.01	0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	1.5	2.6	1.5	0.6	1.3	2.6
Selenium, Dissolved	DETSC 2306	0.25	ug/l	1.3	1.2	0.63	0.83	0.78	1.4
Zinc, Dissolved	DETSC 2306	1.25	ug/l	< 1.25	< 1.25	1.27	< 1.25	< 1.25	< 1.25
Inorganics									
pH	DETSC 2008			7.7	9.4	8.5	8.2	7.8	8.5
Cyanide Total	DETSC 2130	40	ug/l	< 40	< 40	< 40	< 40	< 40	< 40
Chloride	DETSC 2055	0.1	mg/l	1.5	1.3	2.2	1.6	1.2	1.4
Fluoride	DETSC 2055	0.1	mg/l	< 0.10	< 0.10	0.11	0.11	< 0.10	< 0.10
Sulphate as SO4	DETSC 2055	0.1	mg/l	3.6	3.9	11	7.0	2.0	3.9
Total Organic Carbon	DETSC 2033	2	mg/l	4.5	8.8	7.6	7.2	5.9	6.7
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	6.7	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	6.1	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10	< 10	< 10
TPH Ali/Aro	DETSC 3072*	10	ug/l	< 10	14	< 10	< 10	< 10	< 10

Summary of Chemical Analysis

Leachate Samples

Our Ref 15-40314

Client Ref 12032

Contract Title Herbert Road

Lab No	839318	839319	839320	839321	839322	839323
Sample ID	TP18	TP18	TP18	TP19	TP19	TP19
Depth	0.50	1.50	2.50	0.50	1.50	2.50
Other ID						
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15	13/07/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
PAHs									
Naphthalene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	DETS 074*	0.01	ug/l	< 0.01	0.11	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	DETS 074*	0.01	ug/l	< 0.01	0.08	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-c,d)pyrene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,h)anthracene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perylene	DETS 074*	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PAH	DETS 074*	0.2	ug/l	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Phenols									
Phenol	*	0.5	ug/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Summary of Asbestos Analysis

Soil Samples

Our Ref 15-40314

Client Ref 12032

Contract Title Herbert Road

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
839276	TP12 1.00	SOIL	NAD	none	Colin Patrick
839277	TP12 2.00	SOIL	Chrysotile	small bundle of Chrysotile	Colin Patrick
839278	TP12 3.00	SOIL	NAD	none	Colin Patrick
839279	TP13 1.00	SOIL	NAD	none	Colin Patrick
839280	TP13 2.00	SOIL	NAD	none	Colin Patrick
839281	TP13 3.00	SOIL	NAD	none	Colin Patrick
839282	TP14 1.00	SOIL	NAD	none	Colin Patrick
839283	TP14 2.00	SOIL	Chrysotile	small bundle of Chrysotile	Colin Patrick
839284	TP14 3.00	SOIL	NAD	none	Colin Patrick
839285	TP15 0.30	SOIL	NAD	none	Colin Patrick
839286	TP15 1.00	SOIL	NAD	none	Colin Patrick
839287	TP15 2.20	SOIL	Chrysotile	small bundle of Chrysotile	Colin Patrick
839288	TP16 0.50	SOIL	NAD	none	Colin Patrick
839289	TP16 1.50	SOIL	NAD	none	Colin Patrick
839290	TP16 2.50	SOIL	NAD	none	Colin Patrick
839291	TP17 0.50	SOIL	NAD	none	Colin Patrick
839292	TP17 1.50	SOIL	NAD	none	Colin Patrick
839293	TP17 2.50	SOIL	NAD	none	Colin Patrick
839294	TP18 0.50	SOIL	Chrysotile	small bundle of Chrysotile	Colin Patrick
839295	TP18 1.50	SOIL	NAD	none	Colin Patrick
839296	TP18 2.50	SOIL	NAD	none	Colin Patrick
839297	TP19 0.50	SOIL	NAD	none	Colin Patrick
839298	TP19 1.50	SOIL	NAD	none	Colin Patrick
839299	TP19 2.50	SOIL	NAD	none	Colin Patrick

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Summary of Asbestos Quantification Analysis

Soil Samples

Our Ref 15-40314
 Client Ref 12032
 Contract Title Herbert Road

Lab No	839277	839283	839287	839294
Sample ID	TP12	TP14	TP15	TP18
Depth	2.00	2.00	2.20	0.50
Other ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sampling Date	13/07/15	13/07/15	13/07/15	13/07/15
Sampling Time				

Test	Method	Units				
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	0.001	0.001	< 0.001	< 0.001
Gravimetric Quantification (a)	DETSC 1102	Mass %	na	na	na	na
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	0.001	0.001	<0.001	<0.001
Quantification by PCOM (c)	DETSC 1102	Mass %	na	na	na	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g	na	na	na	na
Breakdown of Gravimetric Analysis (a)						
Mass of Sample		g	712.36	609.14	657.71	579.34
ACMs present*		type				
Mass of ACM in sample		g				
% ACM by mass		%				
% asbestos in ACM		%				
% asbestos in sample		%				
Breakdown of Detailed Gravimetric Analysis (b)						
% Amphibole bundles in sample		Mass %	na	na	na	na
% Serpentine bundles in sample		Mass %	0.001	0.001	<0.001	<0.001
Breakdown of PCOM Analysis (c)						
% Amphibole fibres in sample		Mass %	na	na	na	na
% Serpentine fibres in sample		Mass %	na	na	na	na
Breakdown of Potentially Respirable Fibre Analysis (d)						
Amphibole fibres		Fibres/g	na	na	na	na
Chrysotile fibres		Fibres/g	na	na	na	na

* Denotes test or material description outside of UKAS accreditation.
 % asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264.
 Recommended sample size for quantification is approximately 1kg
 # denotes deviating sample

Information in Support of the Analytical Results

Our Ref 15-40314
Client Ref 12032
Contract Herbert Road

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time	Inappropriate
				exceeded for tests	container for tests
839276	TP12 1.00 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839277	TP12 2.00 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839278	TP12 3.00 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839279	TP13 1.00 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839280	TP13 2.00 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839281	TP13 3.00 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839282	TP14 1.00 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839283	TP14 2.00 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839284	TP14 3.00 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839285	TP15 0.30 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839286	TP15 1.00 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839287	TP15 2.20 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839288	TP16 0.50 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839289	TP16 1.50 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839290	TP16 2.50 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839291	TP17 0.50 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839292	TP17 1.50 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839293	TP17 2.50 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839294	TP18 0.50 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839295	TP18 1.50 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839296	TP18 2.50 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839297	TP19 0.50 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839298	TP19 1.50 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839299	TP19 2.50 SOIL	13/07/15	GJ 250ml x2, PT 1L x2		
839300	TP12 1.00 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839301	TP12 2.00 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839302	TP12 3.00 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839303	TP13 1.00 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839304	TP13 2.00 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839305	TP13 3.00 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839306	TP14 1.00 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839307	TP14 2.00 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839308	TP14 3.00 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839309	TP15 0.30 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839310	TP15 1.00 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839311	TP15 2.20 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839312	TP16 0.50 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839313	TP16 1.50 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839314	TP16 2.50 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839315	TP17 0.50 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839316	TP17 1.50 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839317	TP17 2.50 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839318	TP18 0.50 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839319	TP18 1.50 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839320	TP18 2.50 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839321	TP19 0.50 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839322	TP19 1.50 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		
839323	TP19 2.50 LEACHATE	13/07/15	GJ 250ml x2, PT 1L x2		

Information in Support of the Analytical Results

Our Ref 15-40314

Client Ref 12032

Contract Herbert Road

Key: G-Glass P-Plastic J-Jar T-Tub

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time and/or inappropriate containers are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425 μ m sieve, in accordance with BS1377.

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Appendix A - Details of Analysis

Method	Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
DETS 2002	Organic matter	%	0.1	Air Dried	No	Yes	Yes
DETS 2003	Loss on ignition	%	0.01	Air Dried	No	Yes	Yes
DETS 2008	pH	pH Units	1	Air Dried	No	Yes	Yes
DETS 2024	Sulphide	mg/kg	10	Air Dried	No	Yes	Yes
DETS 2076	Sulphate Aqueous Extract as SO4	mg/l	10	Air Dried	No	Yes	Yes
DETS 2084	Total Carbon	%	0.5	Air Dried	No	Yes	Yes
DETS 2084	Total Organic Carbon	%	0.5	Air Dried	No	Yes	Yes
DETS 2119	Ammoniacal Nitrogen as N	mg/kg	0.5	Air Dried	No	Yes	Yes
DETS 2130	Cyanide free	mg/kg	0.1	Air Dried	No	Yes	Yes
DETS 2130	Cyanide total	mg/kg	0.1	Air Dried	No	Yes	Yes
DETS 2130	Phenol - Monohydric	mg/kg	0.3	Air Dried	No	Yes	Yes
DETS 2130	Thiocyanate	mg/kg	0.6	Air Dried	No	Yes	Yes
DETS 2321	Total Sulphate as SO4	%	0.01	Air Dried	No	Yes	Yes
DETS 2325	Mercury	mg/kg	0.05	Air Dried	No	Yes	Yes
DETS 3049	Sulphur (free)	mg/kg	0.75	Air Dried	No	Yes	Yes
DETS 2123	Boron (water soluble)	mg/kg	0.2	Air Dried	No	Yes	Yes
DETS 2301	Arsenic	mg/kg	0.2	Air Dried	No	Yes	Yes
DETS 2301	Barium	mg/kg	1.5	Air Dried	No	Yes	Yes
DETS 2301	Beryllium	mg/kg	0.2	Air Dried	No	Yes	Yes
DETS 2301	Cadmium Available	mg/kg	0.1	Air Dried	No	Yes	Yes
DETS 2301	Cadmium	mg/kg	0.1	Air Dried	No	Yes	Yes
DETS 2301	Cobalt	mg/kg	0.7	Air Dried	No	Yes	Yes
DETS 2301	Chromium	mg/kg	0.15	Air Dried	No	Yes	Yes
DETS 2301	Copper	mg/kg	0.2	Air Dried	No	Yes	Yes
DETS 2301	Manganese	mg/kg	20	Air Dried	No	Yes	Yes
DETS 2301	Molybdenum	mg/kg	0.4	Air Dried	No	Yes	Yes
DETS 2301	Nickel	mg/kg	1	Air Dried	No	Yes	Yes
DETS 2301	Lead	mg/kg	0.3	Air Dried	No	Yes	Yes
DETS 2301	Selenium	mg/kg	0.5	Air Dried	No	Yes	Yes
DETS 2301	Zinc	mg/kg	1	Air Dried	No	Yes	Yes
DETS 3072	Ali/Aro C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aliphatic C10-C12	mg/kg	1.5	As Received	No	Yes	Yes
DETS 3072	Aliphatic C10-C12	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aliphatic C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aliphatic C12-C16	mg/kg	1.2	As Received	No	Yes	Yes
DETS 3072	Aliphatic C12-C16	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aliphatic C16-C21	mg/kg	1.5	As Received	No	Yes	Yes
DETS 3072	Aliphatic C16-C21	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aliphatic C21-C35	mg/kg	3.4	As Received	No	Yes	Yes
DETS 3072	Aliphatic C21-C35	mg/kg	3.4	As Received	No	Yes	Yes
DETS 3072	Aromatic C10-C12	mg/kg	0.9	As Received	No	Yes	Yes
DETS 3072	Aromatic C10-C12	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aromatic C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aromatic C12-C16	mg/kg	0.5	As Received	No	Yes	Yes
DETS 3072	Aromatic C12-C16	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aromatic C16-C21	mg/kg	0.6	As Received	No	Yes	Yes
DETS 3072	Aromatic C16-C21	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aromatic C21-C35	mg/kg	1.4	As Received	No	Yes	Yes
DETS 3072	Aromatic C21-C35	mg/kg	1.4	As Received	No	Yes	Yes
DETS 062	Benzene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	Ethylbenzene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	Toluene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	m+p Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	o Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3311	C10-C24 Diesel Range Organics (DRO)	mg/kg	10	As Received	No	Yes	Yes
DETS 3311	C24-C40 Lube Oil Range Organics (LORO)	mg/kg	10	As Received	No	Yes	Yes
DETS 3311	EPH (C10-C40)	mg/kg	10	As Received	No	Yes	Yes

Appendix A - Details of Analysis

Method	Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
DETS 3303	Acenaphthene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Acenaphthylene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(a)pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(a)anthracene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(b)fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(k)fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(g,h,i)perylene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Dibenzo(a,h)anthracene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Indeno(1,2,3-c,d)pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Naphthalene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Phenanthrene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3401	PCB 28 + PCB 31	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 52	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 101	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 118	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 153	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 138	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 180	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB Total	mg/kg	0.01	As Received	No	Yes	Yes

Method details are shown only for those determinands listed in Annex A of the MCERTS standard. Anything not included on this list falls outside the scope of MCERTS. No Recovery Factors are used in the determination of results. Results reported assume 100% recovery. Full method statements are available on request.