



Exova Jones Environmental

Registered Address : Exova (UK) Ltd, Lochend Industrial Estate, Newbridge, Midlothian, EH28 8PL

Unit 3 Deeside Point
Zone 3
Deeside Industrial Park
Deeside
CH5 2UA

AECOM
2 City Walk
Leeds
LS11 9AR

Tel: +44 (0) 1244 833780
Fax: +44 (0) 1244 833781



Attention : Alex Freeman

Date : 23rd August, 2018

Your reference : 60569745

Our reference : Test Report 18/7222 Batch 1 18/5333 Batch 1 18/5166 Batch 1 18/5455 Batch 1 18/5166 Batch 1

Location : VP1 (TLOR)

Date samples received :

Status : Final report

Issue : 1

Compiled By:

Simon Gomery BSc
Project Manager

Client Name: AECOM
 Reference: 60569745
 Location: VP1 (TLOR)
 Contact: Alex Freeman

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Job No.	18/5166	18/5166	18/5166	18/5166	18/5166	18/5166	18/5166	18/5166	18/5333	18/5333	18/5333	Please see attached notes for all abbreviations and acronyms		
J E Sample No.	1-3	4-6	7-9	10-12	13-15	16-18	19-21	1-3	4-6	7-9				
Sample ID	BH06	BH01	TT03	TT02	WS01	WS04	TP10	TT01	TP09	TP07				
Depth	0.40-0.70	0.45-0.70	0.00-1.40	0.50-1.20	1.00-1.25	0.50	0.40-0.60	1.70-1.90	0.30-0.40	1.30-1.60				
COC No / misc														
Containers	V J B	V J B	V J B	V J B	V J B	V J B	V J B	V J B	V J B	V J B				
Sample Date	05/04/2018	05/04/2018	06/04/2018	06/04/2018	06/04/2018	06/04/2018	06/04/2018	09/04/2018	09/04/2018	09/04/2018				
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Batch Number	1	1	1	1	1	1	1	1	1	1				
Date of Receipt	07/04/2018	07/04/2018	07/04/2018	07/04/2018	07/04/2018	07/04/2018	07/04/2018	11/04/2018	11/04/2018	11/04/2018	LOD/LOR	Units	Method No.	
Arsenic ^{#M}	10.7	NDP	9.8	10.8	NDP	8.9	10.7	9.0	6.8	9.4	<0.5	mg/kg	TM30/PM15	
Barium ^{#M}	163	NDP	98	144	NDP	169	112	112	65	127	<1	mg/kg	TM30/PM15	
Beryllium	4.2	NDP	1.0	1.5	NDP	1.3	1.3	1.4	0.7	1.3	<0.5	mg/kg	TM30/PM15	
Cadmium ^{#M}	<0.1	NDP	0.1	0.2	NDP	<0.1	0.2	0.2	0.3	0.2	<0.1	mg/kg	TM30/PM15	
Chromium ^{#M}	81.5	NDP	106.0	75.9	NDP	85.2	87.6	52.6	44.9	69.0	<0.5	mg/kg	TM30/PM15	
Copper ^{#M}	13	NDP	13	21	NDP	15	21	16	11	9	<1	mg/kg	TM30/PM15	
Lead ^{#M}	15	NDP	19	20	NDP	16	26	13	11	15	<5	mg/kg	TM30/PM15	
Mercury ^{#M}	<0.1	NDP	<0.1	<0.1	NDP	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15	
Nickel ^{#M}	19.7	NDP	23.0	30.9	NDP	30.1	26.4	32.4	19.0	28.6	<0.7	mg/kg	TM30/PM15	
Selenium ^{#M}	2	NDP	1	<1	NDP	2	<1	2	2	2	<1	mg/kg	TM30/PM15	
Total Sulphate as SO4 ^{#M}	-	NDP	-	-	NDP	-	-	-	-	-	<50	mg/kg	TM50/PM29	
Vanadium	79	NDP	56	62	NDP	54	56	46	30	46	<1	mg/kg	TM30/PM15	
Water Soluble Boron ^{#M}	2.5	NDP	1.2	1.7	NDP	2.1	1.5	1.7	0.9	1.0	<0.1	mg/kg	TM74/PM32	
Zinc ^{#M}	53	NDP	57	71	NDP	67	106	61	73	62	<5	mg/kg	TM30/PM15	
Arsenic	-	21.0	-	-	16.3	-	-	-	-	-	<0.5	mg/kg	TM30/PM62	
Barium	-	504	-	-	310	-	-	-	-	-	<1	mg/kg	TM30/PM62	
Beryllium	-	2.1	-	-	1.9	-	-	-	-	-	<0.5	mg/kg	TM30/PM62	
Cadmium	-	3.1	-	-	1.6	-	-	-	-	-	<0.1	mg/kg	TM30/PM62	
Chromium	-	79.8	-	-	68.7	-	-	-	-	-	<0.5	mg/kg	TM30/PM62	
Copper	-	148	-	-	113	-	-	-	-	-	<1	mg/kg	TM30/PM62	
Lead	-	124	-	-	73	-	-	-	-	-	<5	mg/kg	TM30/PM62	
Mercury	-	1.7	-	-	<0.1	-	-	-	-	-	<0.1	mg/kg	TM30/PM62	
Nickel	-	163.1	-	-	92.4	-	-	-	-	-	<0.7	mg/kg	TM30/PM62	
Selenium	-	10	-	-	4	-	-	-	-	-	<1	mg/kg	TM30/PM62	
Total Sulphate as SO4	-	8841	-	-	10971	-	-	-	-	-	<50	mg/kg	TM50/PM29	
Vanadium	-	338	-	-	231	-	-	-	-	-	<1	mg/kg	TM30/PM62	
Water Soluble Boron	-	2.9	-	-	2.6	-	-	-	-	-	<0.1	mg/kg	TM74/PM61	
Zinc	-	1275	-	-	663	-	-	-	-	-	<5	mg/kg	TM30/PM62	
VOC TICs	-	See Attached	-	-	ND	-	-	-	-	-		None	TM15/PM10	
Methyl Tertiary Butyl Ether ^{#M}	-	<6	-	-	<6	-	-	-	-	-	<6	ug/kg	TM15/PM10	
Benzene ^{#M}	-	46	-	-	47	-	-	-	-	-	<5	ug/kg	TM15/PM10	
Toluene ^{#M}	-	7	-	-	15	-	-	-	-	-	<3	ug/kg	TM15/PM10	
Ethylbenzene ^{#M}	-	60	-	-	31	-	-	-	-	-	<3	ug/kg	TM15/PM10	
p/m-Xylene ^{#M}	-	114	-	-	89	-	-	-	-	-	<4	ug/kg	TM15/PM10	
o-Xylene ^{#M}	-	36	-	-	31	-	-	-	-	-	<4	ug/kg	TM15/PM10	
Surrogate Recovery Toluene D8	-	57	-	-	57	-	-	-	-	-	<0	%	TM15/PM10	
Surrogate Recovery 4-Bromofluorobenzene	-	59	-	-	55	-	-	-	-	-	<0	%	TM15/PM10	
SVOC TICs	-	See Attached _{AB}	-	-	See Attached _{AB}	-	-	-	-	-		None	TM16/PM8	

Client Name: AECOM
 Reference: 60569745
 Location: VP1 (TLOR)
 Contact: Alex Freeman

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Job No.	18/5166	18/5166	18/5166	18/5166	18/5166	18/5166	18/5166	18/5333	18/5333	18/5333	Please see attached notes for all abbreviations and acronyms		
J E Sample No.	1-3	4-6	7-9	10-12	13-15	16-18	19-21	1-3	4-6	7-9	LOD/LOR	Units	Method No.
Sample ID	BH06	BH01	TT03	TT02	WS01	WS04	TP10	TT01	TP09	TP07			
Depth	0.40-0.70	0.45-0.70	0.00-1.40	0.50-1.20	1.00-1.25	0.50	0.40-0.60	1.70-1.90	0.30-0.40	1.30-1.60			
COC No / misc													
Containers	V J B	V J B	V J B	V J B	V J B	V J B	V J B	V J B	V J B	V J B			
Sample Date	05/04/2018	05/04/2018	06/04/2018	06/04/2018	06/04/2018	06/04/2018	06/04/2018	09/04/2018	09/04/2018	09/04/2018			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	07/04/2018	07/04/2018	07/04/2018	07/04/2018	07/04/2018	07/04/2018	07/04/2018	11/04/2018	11/04/2018	11/04/2018			
TPH CWG													
Aliphatics													
>C5-C6 ^{#M}	-	<0.1 ^{SV}	-	-	<0.1 ^{SV}	-	-	-	-	-	<0.1	mg/kg	TM36/PM12
>C6-C8 ^{#M}	-	<0.1 ^{SV}	-	-	0.2 ^{SV}	-	-	-	-	-	<0.1	mg/kg	TM36/PM12
>C8-C10	-	1.0 ^{SV}	-	-	1.1 ^{SV}	-	-	-	-	-	<0.1	mg/kg	TM36/PM12
>C10-C12 ^{#M}	-	588.8	-	-	51.8	-	-	-	-	-	<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 ^{#M}	-	1627	-	-	343	-	-	-	-	-	<4	mg/kg	TM5/PM8/PM16
>C16-C21 ^{#M}	-	2885	-	-	977	-	-	-	-	-	<7	mg/kg	TM5/PM8/PM16
>C21-C35 ^{#M}	-	5172	-	-	2523	-	-	-	-	-	<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-35	-	10274	-	-	3896	-	-	-	-	-	<19	mg/kg	TM5/PM8/PM16/PM12/PM11
Aromatics													
>C5-EC7 [#]	-	<0.1 ^{SV}	-	-	<0.1 ^{SV}	-	-	-	-	-	<0.1	mg/kg	TM36/PM12
>EC7-EC8 [#]	-	<0.1 ^{SV}	-	-	<0.1 ^{SV}	-	-	-	-	-	<0.1	mg/kg	TM36/PM12
>EC8-EC10 ^{#M}	-	<0.1 ^{SV}	-	-	<0.1 ^{SV}	-	-	-	-	-	<0.1	mg/kg	TM36/PM12
>EC10-EC12 [#]	-	92.9	-	-	10.3	-	-	-	-	-	<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 [#]	-	809	-	-	104	-	-	-	-	-	<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 [#]	-	3404	-	-	629	-	-	-	-	-	<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 [#]	-	8205	-	-	3203	-	-	-	-	-	<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-35 [#]	-	12511	-	-	3946	-	-	-	-	-	<19	mg/kg	TM5/PM8/PM16/PM12/PM11
Total aliphatics and aromatics(C5-35)	-	22785	-	-	7842	-	-	-	-	-	<38	mg/kg	TM5/PM8/PM16/PM12/PM11
Natural Moisture Content	20.9	NDP	15.5	20.5	NDP	17.5	17.1	21.1	11.9	13.7	<0.1	%	PM4/PM0
Ammoniacal Nitrogen as N	-	-	-	-	-	-	-	-	-	-	<0.6	mg/kg	TM38/PM20
Ammoniacal Nitrogen as NH4 Chloride ^{#M}	0.8	39.3	<0.6	<0.6	30.5	<0.6	1.5	<0.6	<0.6	<0.6	<0.6	mg/kg	TM38/PM20
Chloride (2:1 Ext BRE)	-	NDP	-	-	NDP	-	-	-	-	-	<2	mg/kg	TM38/PM20
Chloride	-	39	-	-	89	-	-	-	-	-	<0.002	g/l	TM38/PM60
Fluoride	-	4.5	-	-	3.7	-	-	-	-	-	<0.3	mg/kg	TM173/PM20
Hexavalent Chromium [#]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	mg/kg	TM38/PM20
Nitrate as N	-	-	-	-	-	-	-	-	-	-	<2.5	mg/kg	TM38/PM20
Nitrate as NO3	-	NDP	-	-	NDP	-	-	-	-	-	<2.5	mg/kg	TM38/PM20
Nitrate as NO3	-	<2.5	-	-	<2.5	-	-	-	-	-	<2.5	mg/kg	TM38/PM60
Nitrate as N	-	-	-	-	-	-	-	-	-	-	<2.5	mg/kg	TM38/PM60
Sulphate as SO4 (2:1 Ext) ^{#M}	-	-	-	-	-	-	-	-	-	-	<0.0015	g/l	TM38/PM20
Chromium III	81.5	NDP	106.0	75.9	NDP	85.2	87.6	52.6	44.9	69.0	<0.5	mg/kg	NONE/NONE
Chromium III	-	79.8	-	-	68.7	-	-	-	-	-	<0.5	mg/kg	NONE/NONE
Organic Matter	1.2	NDP	1.5	2.1	NDP	1.0	2.0	0.7	0.7	0.8	<0.2	%	TM21/PM24
Sulphide	-	53	-	-	25	-	-	-	-	-	<10	mg/kg	TM107/PM119
pH ^{#M}	8.07	7.31	7.69	7.78	7.29	8.50	7.26	7.97	8.46	8.25	<0.01	pH units	TM73/PM11
Sample Type	Clay	NDP	Clay	Clay	NDP	Clay	Clay	Clay	Clay	Clay	None		PM13/PM0

Please include all sections of this report if it is reproduced

Client Name: AECOM
 Reference: 60569745
 Location: VP1 (TLOR)
 Contact: Alex Freeman

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Job No.	18/5333	18/5333	18/5333	18/5333	18/5333	18/5333	18/5384	18/5384	18/5384	18/5384	Please see attached notes for all abbreviations and acronyms		
J E Sample No.	13-15	16-18	19-21	22-24	25-27	28-29	1-3	7-9	13-15	19-21			
Sample ID	TP08	WS02	TP05	WS05	TP04	WS03	TP06	TP01	TP02	WS06			
Depth	0.20-0.50	0.00-0.50	0.50-0.70	0.50-1.00	0.80-1.00	0.00-1.20	0.40-0.60	0.70-0.90	0.30-0.50	0.00-1.20			
COC No / misc													
Containers	V J B	V J B	V J B	V J B	V J B	V B	V J B	V J B	V J B	V J B			
Sample Date	09/04/2018	10/04/2018	10/04/2018	10/04/2018	10/04/2018	10/04/2018	10/04/2018	11/04/2018	11/04/2018	11/04/2018			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	11/04/2018	11/04/2018	11/04/2018	11/04/2018	11/04/2018	11/04/2018	12/04/2018	12/04/2018	12/04/2018	12/04/2018	LOD/LOR	Units	Method No.
Arsenic ^{#M}	7.2	11.4	9.0	10.5	7.4	7.3	NDP	NDP	NDP	6.4	<0.5	mg/kg	TM30/PM15
Barium ^{#M}	117	121	162	147	116	169	NDP	NDP	NDP	133	<1	mg/kg	TM30/PM15
Beryllium	1.4	1.3	1.3	1.5	1.1	1.5	NDP	NDP	NDP	1.4	<0.5	mg/kg	TM30/PM15
Cadmium ^{#M}	<0.1	0.3	0.2	0.4	0.2	0.2	NDP	NDP	NDP	0.2	<0.1	mg/kg	TM30/PM15
Chromium ^{#M}	81.4	60.0	60.4	71.5	64.0	65.2	NDP	NDP	NDP	50.1	<0.5	mg/kg	TM30/PM15
Copper ^{#M}	15	20	15	28	11	45	NDP	NDP	NDP	10	<1	mg/kg	TM30/PM15
Lead ^{#M}	15	22	11	34	9	42	NDP	NDP	NDP	10	<5	mg/kg	TM30/PM15
Mercury ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	NDP	NDP	NDP	<0.1	<0.1	mg/kg	TM30/PM15
Nickel ^{#M}	37.3	36.1	28.2	29.8	26.5	45.8	NDP	NDP	NDP	33.3	<0.7	mg/kg	TM30/PM15
Selenium ^{#M}	<1	1	2	2	2	<1	NDP	NDP	NDP	<1	<1	mg/kg	TM30/PM15
Total Sulphate as SO4 ^{#M}	-	701	-	2252	-	6510	NDP	NDP	NDP	-	<50	mg/kg	TM50/PM29
Vanadium	52	67	45	69	39	87	NDP	NDP	NDP	45	<1	mg/kg	TM30/PM15
Water Soluble Boron ^{#M}	1.2	1.8	1.6	2.2	1.5	3.4	NDP	NDP	NDP	1.0	<0.1	mg/kg	TM74/PM32
Zinc ^{#M}	66	131	56	149	50	231	NDP	NDP	NDP	113	<5	mg/kg	TM30/PM15
Arsenic	-	-	-	-	-	-	10.3	26.3	21.6	-	<0.5	mg/kg	TM30/PM62
Barium	-	-	-	-	-	-	118	369	337	-	<1	mg/kg	TM30/PM62
Beryllium	-	-	-	-	-	-	1.3	1.9	1.8	-	<0.5	mg/kg	TM30/PM62
Cadmium	-	-	-	-	-	-	0.3	1.8	0.8	-	<0.1	mg/kg	TM30/PM62
Chromium	-	-	-	-	-	-	36.0	75.1	63.4	-	<0.5	mg/kg	TM30/PM62
Copper	-	-	-	-	-	-	18	205	158	-	<1	mg/kg	TM30/PM62
Lead	-	-	-	-	-	-	28	103	71	-	<5	mg/kg	TM30/PM62
Mercury	-	-	-	-	-	-	<0.1	2.3	1.7	-	<0.1	mg/kg	TM30/PM62
Nickel	-	-	-	-	-	-	29.7	121.9	81.6	-	<0.7	mg/kg	TM30/PM62
Selenium	-	-	-	-	-	-	<1	4	4	-	<1	mg/kg	TM30/PM62
Total Sulphate as SO4	-	-	-	-	-	-	856	16251 ^{AB}	6783	-	<50	mg/kg	TM50/PM29
Vanadium	-	-	-	-	-	-	58	275	186	-	<1	mg/kg	TM30/PM62
Water Soluble Boron	-	-	-	-	-	-	4.4	3.4	3.6	-	<0.1	mg/kg	TM74/PM61
Zinc	-	-	-	-	-	-	84	947	623	-	<5	mg/kg	TM30/PM62
VOC TICs	-	ND	-	ND	-	ND	ND	See Attached	ND	-		None	TM15/PM10
Methyl Tertiary Butyl Ether ^{#M}	-	<6	-	<6	-	<6	<6	<6	<6	-	<6	ug/kg	TM15/PM10
Benzene ^{#M}	-	<5	-	<5	-	<5	<5	45	60	-	<5	ug/kg	TM15/PM10
Toluene ^{#M}	-	<3	-	<3	-	<3	<3	5	19	-	<3	ug/kg	TM15/PM10
Ethylbenzene ^{#M}	-	<3	-	<3	-	<3	<3	39	121	-	<3	ug/kg	TM15/PM10
p/m-Xylene ^{#M}	-	<4	-	<4	-	9	<4	213	115	-	<4	ug/kg	TM15/PM10
o-Xylene ^{#M}	-	<4	-	<4	-	<4	<4	49	54	-	<4	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	-	93	-	92	-	78	85	52	52	-	<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	-	86	-	77	-	64	74	58	54	-	<0	%	TM15/PM10
SVOC TICs	-	ND	-	ND	-	ND	ND	See Attached	See Attached	-		None	TM16/PM8

Client Name: AECOM
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 Contact: Alex Freeman

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Job No.	18/5333	18/5333	18/5333	18/5333	18/5333	18/5333	18/5333	18/5384	18/5384	18/5384	18/5384	Please see attached notes for all abbreviations and acronyms		
J E Sample No.	13-15	16-18	19-21	22-24	25-27	28-29	1-3	7-9	13-15	19-21				
Sample ID	TP08	WS02	TP05	WS05	TP04	WS03	TP06	TP01	TP02	WS06				
Depth	0.20-0.50	0.00-0.50	0.50-0.70	0.50-1.00	0.80-1.00	0.00-1.20	0.40-0.60	0.70-0.90	0.30-0.50	0.00-1.20				
COC No / misc														
Containers	V J B	V J B	V J B	V J B	V J B	V B	V J B	V J B	V J B	V J B				
Sample Date	09/04/2018	10/04/2018	10/04/2018	10/04/2018	10/04/2018	10/04/2018	10/04/2018	11/04/2018	11/04/2018	11/04/2018				
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Batch Number	1	1	1	1	1	1	1	1	1	1				
Date of Receipt	11/04/2018	11/04/2018	11/04/2018	11/04/2018	11/04/2018	11/04/2018	12/04/2018	12/04/2018	12/04/2018	12/04/2018	LOD/LOR	Units	Method No.	
TPH CWG														
Aliphatics														
>C5-C6 ^{#M}	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1 ^{SV}	<0.1 ^{SV}	-	<0.1	mg/kg	TM36/PM12	
>C6-C8 ^{#M}	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1 ^{SV}	1.3 ^{SV}	-	<0.1	mg/kg	TM36/PM12	
>C8-C10	-	<0.1	-	<0.1	-	<0.1	<0.1	0.3 ^{SV}	5.6 ^{SV}	-	<0.1	mg/kg	TM36/PM12	
>C10-C12 ^{#M}	-	<0.2	-	4.9	-	9.7	<0.2	154.5	325.9	-	<0.2	mg/kg	TM5/PM8/PM16	
>C12-C16 ^{#M}	-	9	-	52	-	101	<4	789	925	-	<4	mg/kg	TM5/PM8/PM16	
>C16-C21 ^{#M}	-	26	-	256	-	367	<7	1715	1534	-	<7	mg/kg	TM5/PM8/PM16	
>C21-C35 ^{#M}	-	82	-	675	-	876	<7	3414	3001	-	<7	mg/kg	TM5/PM8/PM16	
Total aliphatics C5-35	-	117	-	988	-	1354	<19	6073	5793	-	<19	mg/kg	TM5/PM8/PM16/PM12/PM10	
Aromatics														
>C5-EC7 [#]	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1 ^{SV}	<0.1 ^{SV}	-	<0.1	mg/kg	TM36/PM12	
>EC7-EC8 [#]	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1 ^{SV}	<0.1 ^{SV}	-	<0.1	mg/kg	TM36/PM12	
>EC8-EC10 ^{#M}	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1 ^{SV}	<0.1 ^{SV}	-	<0.1	mg/kg	TM36/PM12	
>EC10-EC12 [#]	-	<0.2	-	<0.2	-	<0.2	<0.2	33.9	103.8	-	<0.2	mg/kg	TM5/PM8/PM16	
>EC12-EC16 [#]	-	<4	-	32	-	37	<4	358	688	-	<4	mg/kg	TM5/PM8/PM16	
>EC16-EC21 [#]	-	17	-	322	-	357	<7	1663	1953	-	<7	mg/kg	TM5/PM8/PM16	
>EC21-EC35 [#]	-	158	-	1581	-	1790	<7	5036	5372	-	<7	mg/kg	TM5/PM8/PM16	
Total aromatics C5-35 [#]	-	175	-	1935	-	2184	<19	7091	8117	-	<19	mg/kg	TM5/PM8/PM16/PM12/PM10	
Total aliphatics and aromatics(C5-35)	-	292	-	2923	-	3538	<38	13164	13910	-	<38	mg/kg	TM5/PM8/PM16/PM12/PM10	
Natural Moisture Content	22.0	20.7	23.8	22.0	17.6	34.3	NDP	NDP	NDP	20.4	<0.1	%	PM4/PM0	
Ammoniacal Nitrogen as N	-	-	-	-	-	-	-	-	-	-	<0.6	mg/kg	TM38/PM20	
Ammoniacal Nitrogen as NH4 Chloride ^{#M}	<0.6	2.6	<0.6	14.2	<0.6	20.2	8.3	41.7	13.5	<0.6	<0.6	mg/kg	TM38/PM20	
Chloride (2:1 Ext BRE)	-	1582	-	54	-	58	NDP	NDP	NDP	-	<2	mg/kg	TM38/PM20	
Chloride	-	-	-	-	-	-	-	-	-	-	<2	mg/kg	TM38/PM60	
Fluoride	-	0.9	-	3.7	-	2.3	6.9	8.0	16.4	-	<0.3	mg/kg	TM173/PM20	
Hexavalent Chromium [#]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	mg/kg	TM38/PM20	
Nitrate as N	-	-	-	-	-	-	-	-	-	-	<2.5	mg/kg	TM38/PM20	
Nitrate as NO3	-	<2.5	-	<2.5	-	<2.5	NDP	NDP	NDP	-	<2.5	mg/kg	TM38/PM20	
Nitrate as NO3	-	-	-	-	-	-	<2.5	<2.5	<2.5	-	<2.5	mg/kg	TM38/PM60	
Nitrate as N	-	-	-	-	-	-	-	-	-	-	<2.5	mg/kg	TM38/PM60	
Sulphate as SO4 (2:1 Ext) ^{#M}	-	-	-	-	-	-	-	-	-	-	<0.0015	g/l	TM38/PM20	
Chromium III	81.4	60.0	60.4	71.5	64.0	65.2	NDP	NDP	NDP	50.1	<0.5	mg/kg	NONE/NONE	
Chromium III	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	NONE/NONE	
Organic Matter	0.7	2.0	1.0	3.9	0.6	7.9	NDP	NDP	NDP	0.6	<0.2	%	TM21/PM24	
Sulphide	-	<10	-	<100 ^{AB}	-	53	<10	30	21	-	<10	mg/kg	TM107/PM119	
pH ^{#M}	7.85	7.52	8.52	7.55	8.09	7.34	7.67	7.22	7.67	8.28	<0.01	pH units	TM73/PM11	
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay	NDP	NDP	NDP	Clay	None		PM13/PM0	

Client Name: AECOM
 Reference: 60569745
 Location: VP1 (TLOR)
 Contact: Alex Freeman

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
 H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HNO₃

J E Job No.	18/7222	18/7222	18/7222	18/7222	18/7222	18/7222	18/7222	18/7222			Please see attached notes for all abbreviations and acronyms		
J E Sample No.	1-7	8-14	15-21	22-28	29-35	36-42	43-49	50-56					
Sample ID	BH01	BH02	BH03	WS03	WS04	WS05	WS06	DUP01					
Depth													
COC No / misc													
Containers	V H HN HCL P G	V H HN HCL P G	V H HN HCL P G	V H HN HCL P G	V H HN HCL P G	V H HN HCL P G	V H HN HCL P G	V H HN HCL P G					
Sample Date	10/05/2018	10/05/2018	10/05/2018	10/05/2018	10/05/2018	10/05/2018	10/05/2018	10/05/2018					
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water					
Batch Number	1	1	1	1	1	1	1	1					
Date of Receipt	12/05/2018	12/05/2018	12/05/2018	12/05/2018	12/05/2018	12/05/2018	12/05/2018	12/05/2018			LOD/LOR	Units	Method No.
Dissolved Arsenic #	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5			<2.5	ug/l	TM30/PM14
Dissolved Barium #	57	63	63	41	53	33	44	62			<3	ug/l	TM30/PM14
Dissolved Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	ug/l	TM30/PM14
Dissolved Boron	132	73	<12	49	54	178	34	<12			<12	ug/l	TM30/PM14
Dissolved Cadmium #	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	ug/l	TM30/PM14
Total Dissolved Chromium #	6.2	6.8	<1.5	6.3	5.4	3.3	<1.5	6.7			<1.5	ug/l	TM30/PM14
Dissolved Copper #	<7	<7	<7	<7	<7	<7	<7	<7			<7	ug/l	TM30/PM14
Dissolved Lead #	<5	<5	<5	<5	<5	<5	<5	<5			<5	ug/l	TM30/PM14
Dissolved Mercury #	<1	<1	<1	<1	<1	<1	<1	<1			<1	ug/l	TM30/PM14
Dissolved Nickel #	2	<2	5	4	3	8	4	5			<2	ug/l	TM30/PM14
Dissolved Selenium #	<3	5	16	<3	<3	<3	<3	<3			<3	ug/l	TM30/PM14
Dissolved Vanadium #	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5			<1.5	ug/l	TM30/PM14
Dissolved Zinc #	12	6	7	<3	<3	10	6	6			<3	ug/l	TM30/PM14
VOC TICs	-	-	-	ND	ND	ND	ND	-				None	TM15/PM10
Methyl Tertiary Butyl Ether #	-	-	-	<0.1	2.8	<0.2 ^{AA}	<0.1	-			<0.1	ug/l	TM15/PM10
Benzene #	-	-	-	<0.5	<0.5	<0.5	<0.5	-			<0.5	ug/l	TM15/PM10
Toluene #	-	-	-	<5	<5	<5	<5	-			<5	ug/l	TM15/PM10
Ethylbenzene #	-	-	-	<1	<1	<1	<1	-			<1	ug/l	TM15/PM10
p/m-Xylene #	-	-	-	<2	<2	<2	<2	-			<2	ug/l	TM15/PM10
o-Xylene #	-	-	-	<1	<1	<1	<1	-			<1	ug/l	TM15/PM10
Surrogate Recovery Toluene D8	-	-	-	95	96	98	96	-			<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	-	-	-	96	96	100	101	-			<0	%	TM15/PM10
TPH CWG													
Aliphatics													
>C5-C6 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM36/PM12
>C6-C8 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM36/PM12
>C8-C10 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM36/PM12
>C10-C12 #	<5	<5	<5	<5	<5	<5	<5	<5			<5	ug/l	TM5/PM16/PM30
>C12-C16 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM5/PM16/PM30
>C16-C21 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM5/PM16/PM30
>C21-C35 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM5/PM16/PM30
Total aliphatics C5-35 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM5/PM16/PM30

Client Name: AECOM
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Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HNO₃

J E Job No.	18/7222	18/7222	18/7222	18/7222	18/7222	18/7222	18/7222	18/7222				
J E Sample No.	1-7	8-14	15-21	22-28	29-35	36-42	43-49	50-56				
Sample ID	BH01	BH02	BH03	WS03	WS04	WS05	WS06	DUP01				
Depth												
COC No / misc												
Containers	V H HN HCL P G	V H HN HCL P G	V H HN HCL P G	V H HN HCL P G	V H HN HCL P G	V H HN HCL P G	V H HN HCL P G	V H HN HCL P G				
Sample Date	10/05/2018	10/05/2018	10/05/2018	10/05/2018	10/05/2018	10/05/2018	10/05/2018	10/05/2018				
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water				
Batch Number	1	1	1	1	1	1	1	1				
Date of Receipt	12/05/2018	12/05/2018	12/05/2018	12/05/2018	12/05/2018	12/05/2018	12/05/2018	12/05/2018				
									LOD/LOR	Units	Method No.	
TPH CWG												
Aromatics												
>C5-EC7 #	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/l	TM36/PM12	
>EC7-EC8 #	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/l	TM36/PM12	
>EC8-EC10 #	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/l	TM36/PM12	
>EC10-EC12 #	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/l	TM5/PM16/PM30	
>EC12-EC16 #	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/l	TM5/PM16/PM30	
>EC16-EC21 #	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/l	TM5/PM16/PM30	
>EC21-EC35 #	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/l	TM5/PM16/PM30	
Total aromatics C5-35 #	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/l	TM5/PM16/PM30	
Total aliphatics and aromatics(C5-35) #	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/l	TM5/PM16/PM30	
MTBE #	<5	<5	<5	-	-	-	-	<5	<5	ug/l	TM31/PM12	
Benzene #	<5	<5	<5	-	-	-	-	<5	<5	ug/l	TM31/PM12	
Toluene #	<5	<5	<5	-	-	-	-	<5	<5	ug/l	TM31/PM12	
Ethylbenzene #	<5	<5	<5	-	-	-	-	<5	<5	ug/l	TM31/PM12	
m/p-Xylene #	<5	<5	<5	-	-	-	-	<5	<5	ug/l	TM31/PM12	
o-Xylene #	<5	<5	<5	-	-	-	-	<5	<5	ug/l	TM31/PM12	
Sulphate as SO4 #	62.9	42.8	94.2	417.5	720.3	983.9	299.8	76.4	<0.5	mg/l	TM38/PM0	
Chloride #	24.3	18.2	26.8	563.4	1280.0	304.2	69.2	26.2	<0.3	mg/l	TM38/PM0	
Nitrate as N #	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/l	TM38/PM0	
Ortho Phosphate as P #	0.19	0.15	<0.03	0.12	<0.03	<0.03	<0.03	<0.03	<0.03	mg/l	TM38/PM0	
Ammoniacal Nitrogen as N #	0.42	0.27	0.06	0.06	0.09	0.87	0.05	0.06	<0.03	mg/l	TM38/PM0	
Hexavalent Chromium	<6	<6	<6	<6	<6	<6	<6	<6	<6	ug/l	TM38/PM0	
Total Dissolved Chromium III	6	7	<6	6	<6	<6	<6	7	<6	ug/l	TM0/PM0	
Total Alkalinity as CaCO3 #	352	300	276	346	378	612	762	274	<1	mg/l	TM75/PM0	
Dissolved Organic Carbon #	<2	<2	<2	6	9	38	3	<2	<2	mg/l	TM60/PM0	
Dissolved Iron II	<0.02	<0.02	0.02	0.10	0.26	1.63	0.15	<0.02	<0.02	mg/l	TM48/PM0	
pH #	7.63	7.40	7.31	6.95	6.83	6.97	7.19	7.28	<0.01	pH units	TM73/PM0	
Total Suspended Solids #	35	<10	19	10	14	21	1787	15	<10	mg/l	TM37/PM0	

Please see attached notes for all abbreviations and acronyms

Client Name: AECOM
 Reference: 60569745
 Location: VP1 (TLOR)
 Contact: Alex Freeman

SVOC Report : Solid

J E Job No.	18/5166	18/5166	18/5333	18/5333	18/5333	18/5384	18/5384	18/5384	18/5455	18/5775	Please see attached notes for all abbreviations and acronyms		
J E Sample No.	4-6	13-15	16-18	22-24	28-29	1-3	7-9	13-15	1-3	4-6	LOD/LOR	Units	Method No.
Sample ID	BH01	WS01	WS02	WS05	WS03	TP06	TP01	TP02	BH02	BH05			
Depth	0.45-0.70	1.00-1.25	0.00-0.50	0.50-1.00	0.00-1.20	0.40-0.60	0.70-0.90	0.30-0.50	0.60-1.00	1.80-2.25			
COC No / misc Containers	V J B	V J B	V J B	V J B	V B	V J B	V J B	V J B	V J B	V J B			
Sample Date	05/04/2018	06/04/2018	10/04/2018	10/04/2018	10/04/2018	10/04/2018	11/04/2018	11/04/2018	11/04/2018	17/04/2018			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	07/04/2018	07/04/2018	11/04/2018	11/04/2018	11/04/2018	12/04/2018	12/04/2018	12/04/2018	13/04/2018	18/04/2018			
SVOC MS													
Phenols													
2-Chlorophenol ^{#M}	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
2-Methylphenol	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
2-Nitrophenol	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
2,4-Dichlorophenol ^{#M}	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
2,4-Dimethylphenol	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
2,4,5-Trichlorophenol	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
2,4,6-Trichlorophenol	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
4-Chloro-3-methylphenol	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
4-Methylphenol	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
4-Nitrophenol	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Pentachlorophenol	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Phenol ^{#M}	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
PAHs													
2-Chloronaphthalene ^{#M}	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
2-Methylnaphthalene ^{#M}	1998 ^{AB}	<100 ^{AB}	127	44	53	<10	2857	4537	1136 ^{AB}	<10	<10	ug/kg	TM16/PM8
Naphthalene	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	601	1360	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Acenaphthylene	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Acenaphthene	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	1651	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Fluorene	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	2305	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Phenanthrene ^{#M}	<100 ^{AB}	<100 ^{AB}	<10	124	130	110	1872	7600	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Anthracene	<100 ^{AB}	<100 ^{AB}	<10	41	46	50	603	1072	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Fluoranthene ^{#M}	<100 ^{AB}	<100 ^{AB}	<10	29	26	23	<10	1569	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Pyrene ^{#M}	<100 ^{AB}	<100 ^{AB}	<10	171	110	91	2469	4180	2817 ^{AB}	<10	<10	ug/kg	TM16/PM8
Benzo(a)anthracene	<100 ^{AB}	<100 ^{AB}	<10	56	89	72	662	1520	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Chrysene	<100 ^{AB}	<100 ^{AB}	<10	288	318	258	2415	3179	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Benzo(b)fluoranthene	<100 ^{AB}	<100 ^{AB}	<10	159	180	158	796	1190	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Benzo(a)pyrene	<100 ^{AB}	<100 ^{AB}	<10	105	89	96	938	1089	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Indeno(123cd)pyrene	<100 ^{AB}	<100 ^{AB}	<10	47	37	40	237	263	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Dibenzo(ah)anthracene	<100 ^{AB}	<100 ^{AB}	<10	38	40	50	255	346	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Benzo(ghi)perylene	<100 ^{AB}	<100 ^{AB}	<10	104	114	105	581	591	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Benzo(b)fluoranthene	<100 ^{AB}	<100 ^{AB}	<10	114	130	114	573	857	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Benzo(k)fluoranthene	<100 ^{AB}	<100 ^{AB}	<10	45	50	44	223	333	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Phthalates													
Bis(2-ethylhexyl) phthalate	<1000 ^{AB}	<1000 ^{AB}	<100	<100	<100	<100	1926	3119	<1000 ^{AB}	<100	<100	ug/kg	TM16/PM8
Butylbenzyl phthalate	<1000 ^{AB}	<1000 ^{AB}	<100	<100	<100	<100	<100	<100	<1000 ^{AB}	<100	<100	ug/kg	TM16/PM8
Di-n-butyl phthalate	<1000 ^{AB}	<1000 ^{AB}	<100	<100	<100	<100	<100	<100	<1000 ^{AB}	<100	<100	ug/kg	TM16/PM8
Di-n-Octyl phthalate	<1000 ^{AB}	<1000 ^{AB}	<100	<100	<100	<100	<100	<100	<1000 ^{AB}	<100	<100	ug/kg	TM16/PM8
Diethyl phthalate	<1000 ^{AB}	<1000 ^{AB}	<100	<100	<100	<100	<100	<100	<1000 ^{AB}	<100	<100	ug/kg	TM16/PM8
Dimethyl phthalate ^{#M}	<1000 ^{AB}	<1000 ^{AB}	<100	<100	<100	<100	<100	<100	<1000 ^{AB}	<100	<100	ug/kg	TM16/PM8

Client Name: AECOM
 Reference: 60569745
 Location: VP1 (TLOR)
 Contact: Alex Freeman

SVOC Report : Solid

J E Job No.	18/5166	18/5166	18/5333	18/5333	18/5333	18/5384	18/5384	18/5384	18/5455	18/5775	Please see attached notes for all abbreviations and acronyms		
J E Sample No.	4-6	13-15	16-18	22-24	28-29	1-3	7-9	13-15	1-3	4-6	LOD/LOR	Units	Method No.
Sample ID	BH01	WS01	WS02	WS05	WS03	TP06	TP01	TP02	BH02	BH05			
Depth	0.45-0.70	1.00-1.25	0.00-0.50	0.50-1.00	0.00-1.20	0.40-0.60	0.70-0.90	0.30-0.50	0.60-1.00	1.80-2.25			
COC No / misc Containers	V J B	V J B	V J B	V J B	V B	V J B	V J B	V J B	V J B	V J B			
Sample Date	05/04/2018	06/04/2018	10/04/2018	10/04/2018	10/04/2018	10/04/2018	11/04/2018	11/04/2018	11/04/2018	17/04/2018			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	07/04/2018	07/04/2018	11/04/2018	11/04/2018	11/04/2018	12/04/2018	12/04/2018	12/04/2018	13/04/2018	18/04/2018			
SVOC MS													
Other SVOCs													
1,2-Dichlorobenzene	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
1,2,4-Trichlorobenzene ^{#M}	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
1,3-Dichlorobenzene	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
1,4-Dichlorobenzene	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
2-Nitroaniline	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
2,4-Dinitrotoluene	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
2,6-Dinitrotoluene	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
3-Nitroaniline	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
4-Bromophenylphenylether ^{#M}	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
4-Chloroaniline	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
4-Chlorophenylphenylether	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
4-Nitroaniline	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Azobenzene	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Bis(2-chloroethoxy)methane	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Bis(2-chloroethyl)ether	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Carbazole	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Dibenzofuran ^{#M}	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	818	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Hexachlorobenzene	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Hexachlorobutadiene ^{#M}	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Hexachlorocyclopentadiene	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Hexachloroethane	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Isophorone ^{#M}	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
N-nitrosodi-n-propylamine ^{#M}	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Nitrobenzene ^{#M}	<100 ^{AB}	<100 ^{AB}	<10	<10	<10	<10	<10	<10	<100 ^{AB}	<10	<10	ug/kg	TM16/PM8
Surrogate Recovery 2-Fluorobiphenyl	112 ^{AB}	108 ^{AB}	114	120	123	108	112	121	114 ^{AB}	119	<0	%	TM16/PM8
Surrogate Recovery p-Terphenyl-d14	113 ^{AB}	113 ^{AB}	104	120	122	116	114	115	130 ^{AB}	127	<0	%	TM16/PM8

Client Name: AECOM
Reference: 60569745
Location: VP1 (TLOR)
Contact: Alex Freeman

VOC Report : Solid

J E Job No.	18/5166	18/5166	18/5333	18/5333	18/5333	18/5384	18/5384	18/5384	18/5455	18/5775	Please see attached notes for all abbreviations and acronyms		
J E Sample No.	4-6	13-15	16-18	22-24	28-29	1-3	7-9	13-15	1-3	4-6			
Sample ID	BH01	WS01	WS02	WS05	WS03	TP06	TP01	TP02	BH02	BH05			
Depth	0.45-0.70	1.00-1.25	0.00-0.50	0.50-1.00	0.00-1.20	0.40-0.60	0.70-0.90	0.30-0.50	0.60-1.00	1.80-2.25			
COC No / misc Containers	V J B	V J B	V J B	V J B	V B	V J B	V J B	V J B	V J B	V J B			
Sample Date	05/04/2018	06/04/2018	10/04/2018	10/04/2018	10/04/2018	10/04/2018	11/04/2018	11/04/2018	11/04/2018	17/04/2018			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	07/04/2018	07/04/2018	11/04/2018	11/04/2018	11/04/2018	12/04/2018	12/04/2018	12/04/2018	13/04/2018	18/04/2018	LOD/LOR	Units	Method No.
VOC MS													
Dichlorodifluoromethane	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	ug/kg	TM15/PM10
Methyl Tertiary Butyl Ether ^{#M}	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	ug/kg	TM15/PM10
Chloromethane [#]	<3	<3	<3	<3	<3	<3	<3	<3	5	<3	<3	ug/kg	TM15/PM10
Vinyl Chloride	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	ug/kg	TM15_APM10
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ug/kg	TM15/PM10
Chloroethane ^{#M}	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	ug/kg	TM15/PM10
Trichlorofluoromethane ^{#M}	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,1-Dichloroethene (1,1 DCE) ^{#M}	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	ug/kg	TM15/PM10
Dichloromethane (DCM) [#]	<30	<30	<30	<30	<30	<30	78	41	<30	<30	<30	ug/kg	TM15/PM10
trans-1-2-Dichloroethene [#]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,1-Dichloroethane ^{#M}	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	ug/kg	TM15/PM10
cis-1-2-Dichloroethene ^{#M}	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	ug/kg	TM15/PM10
2,2-Dichloropropane	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
Bromochloromethane ^{#M}	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
Chloroform ^{#M}	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM15/PM10
1,1,1-Trichloroethane ^{#M}	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM15/PM10
1,1-Dichloropropene [#]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Carbon tetrachloride ^{#M}	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
1,2-Dichloroethane ^{#M}	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM15/PM10
Benzene ^{#M}	46	47	<5	<5	<5	<5	45	60	28	<5	<5	ug/kg	TM15/PM10
Trichloroethene (TCE) ^{#M}	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM15/PM10
1,2-Dichloropropane ^{#M}	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
Dibromomethane ^{#M}	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
Bromodichloromethane ^{#M}	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
cis-1-3-Dichloropropene	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
Toluene ^{#M}	7	15	<3	<3	<3	<3	5	19	6	<3	<3	ug/kg	TM15/PM10
trans-1-3-Dichloropropene	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,1,2-Trichloroethane ^{#M}	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
Tetrachloroethene (PCE) [#]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,3-Dichloropropane ^{#M}	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
Dibromochloromethane ^{#M}	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM15/PM10
1,2-Dibromoethane [#]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Chlorobenzene ^{#M}	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
1,1,1,2-Tetrachloroethane ^{#M}	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM15/PM10
Ethylbenzene ^{#M}	60	31	<3	<3	<3	<3	39	121	24	<3	<3	ug/kg	TM15/PM10
p/m-Xylene ^{#M}	114	89	<4	<4	9	<4	213	115	78	<4	<4	ug/kg	TM15/PM10
o-Xylene ^{#M}	36	31	<4	<4	<4	<4	49	54	23	<4	<4	ug/kg	TM15/PM10
Styrene	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15_APM10
Bromoform	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
Isopropylbenzene [#]	24	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,1,2,2-Tetrachloroethane ^{#M}	263	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Bromobenzene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	ug/kg	TM15/PM10
1,2,3-Trichloropropane ^{#M}	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
Propylbenzene [#]	56	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
2-Chlorotoluene	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,3,5-Trimethylbenzene [#]	20	<3	<3	<3	<3	<3	44	51	<3	<3	<3	ug/kg	TM15/PM10
4-Chlorotoluene	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
tert-Butylbenzene [#]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM15/PM10
1,2,4-Trimethylbenzene [#]	315	111	<6	<6	<6	<6	606	833	91	<6	<6	ug/kg	TM15/PM10
sec-Butylbenzene [#]	203	<4	<4	<4	<4	<4	50	<4	<4	<4	<4	ug/kg	TM15/PM10
4-Isopropyltoluene [#]	92	<4	<4	<4	<4	<4	75	1185	<4	<4	<4	ug/kg	TM15/PM10
1,3-Dichlorobenzene ^{#M}	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
1,4-Dichlorobenzene [#]	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
n-Butylbenzene [#]	<4	<4	<4	<4	<4	<4	63	<4	<4	<4	<4	ug/kg	TM15/PM10
1,2-Dichlorobenzene ^{#M}	<4	<4	<4	<4	<4	<4	<4	926	<4	<4	<4	ug/kg	TM15/PM10
1,2-Dibromo-3-chloropropane [#]	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
1,2,4-Trichlorobenzene [#]	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	ug/kg	TM15/PM10
Hexachlorobutadiene	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
Naphthalene	<27	<27	<27	<27	<27	<27	66	252	<27	<27	<27	ug/kg	TM15/PM10
1,2,3-Trichlorobenzene [#]	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	57	57	93	92	78	85	52	52	51	111	<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	59	55	86	77	64	74	58	54	51	103	<0	%	TM15/PM10

Please include all sections of this report if it is reproduced

Exova Jones Environmental

Job number: 18/5384 **Method:** VOC
Sample number: 13 **Matrix:** Solid
Sample identity: TP02
Sample depth: 0.30-0.50
Sample Type: Soil
Units: ug/kg

Note: Only samples with TICs (if requested) are reported. If TICs were requested but no compounds found they are not reported.

CAS No.	Tentative Compound Identification	Retention Time (minutes)	% Match	Concentration
96-14-0	Pentane, 3-methyl-	3.174	90	334
108-08-7	Pentane, 2,4-dimethyl-	3.646	83	154
565-59-3	Pentane, 2,3-dimethyl-	4.034	94	828
589-34-4	Hexane, 3-methyl-	4.079	94	783
1638-26-2	Cyclopentane, 1,1-dimethyl-	4.108	86	352
872-56-0	Isopropylcyclobutane	4.233	93	432
2815-58-9	Cyclopentane, 1,2,4-trimethyl-	4.626	91	957
589-53-7	Heptane, 4-methyl-	4.778	91	955
2207-01-4	Cyclohexane, 1,2-dimethyl-, cis-	5.023	81	1512
6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.105	97	2017
2207-03-6	Cyclohexane, 1,3-dimethyl-, trans-	5.153	93	1110
2234-75-5	Cyclohexane, 1,2,4-trimethyl-	5.336	83	664
3073-66-3	Cyclohexane, 1,1,3-trimethyl-	5.394	94	4705
619-99-8	Hexane, 3-ethyl-	5.446	80	2024
2216-33-3	Octane, 3-methyl-	5.539	80	1413
3728-57-2	Cyclopentane, 1-methyl-2-propyl-	5.707	93	1148
6236-88-0	Cyclohexane, 1-ethyl-4-methyl-, trans-	5.739	91	2325
19398-86-8	cis-3-Decene	5.810	81	425
15869-94-0	Octane, 3,6-dimethyl-	5.955	91	3026
2847-72-5	Decane, 4-methyl-	6.512	83	3218
-	Oxalic acid, cyclobutyl heptadecyl ester	6.627	80	1626
7058-01-7	Cyclohexane, (1-methylpropyl)-	6.680	81	1990
105-05-5	Benzene, 1,4-diethyl-	6.871	84	754
527-84-4	o-Cymene	7.109	94	1704
-	trans-Decalin, 2-methyl-	7.274	87	2398
95-93-2	Benzene, 1,2,4,5-tetramethyl-	7.344	94	623
2958-76-1	Naphthalene, decahydro-2-methyl-	7.383	92	1088

Exova Jones Environmental

Job number: 18/5384 **Method:** SVOC
Sample number: 14 **Matrix:** Solid
Sample identity: TP02
Sample depth: 0.30-0.50
Sample Type: Soil
Units: ug/kg

Note: Only samples with TICs (if requested) are reported. If TICs were requested but no compounds found they are not reported.

CAS No.	Tentative Compound Identification	Retention Time (minutes)	% Match	Concentration
15869-94-0	Octane, 3,6-dimethyl-	4.547	90	1479
14676-29-0	Heptane, 3-ethyl-2-methyl-	4.635	81	1611
2847-72-5	Decane, 4-methyl-	5.500	83	2762
1678-93-9	Cyclohexane, butyl-	5.581	83	657
493-02-7	Naphthalene, decahydro-, trans-	5.804	93	2381
527-84-4	o-Cymene	5.918	92	2969
933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	6.159	90	1224
95-93-2	Benzene, 1,2,4,5-tetramethyl-	6.305	97	1971
-	trans-Decalin, 2-methyl-	6.326	98	246
13150-81-7	2,6-Dimethyldecane	6.389	89	2040
1758-85-6	Benzene, 2,4-diethyl-1-methyl-	6.609	86	868
53172-84-2	Benzene, (1-methyl-1-butenyl)-	7.438	90	2858
75163-97-2	Octadecane, 2,6-dimethyl-	7.594	90	2717
62199-51-3	Cyclopentane, 1-pentyl-2-propyl-	7.673	90	2810
2613-76-5	1H-Indene, 2,3-dihydro-1,1,3-trimethyl-	7.843	89	7319
3891-98-3	Dodecane, 2,6,10-trimethyl-	8.272	94	7253
582-16-1	Naphthalene, 2,7-dimethyl-	8.465	97	11515
2131-42-2	Naphthalene, 1,4,6-trimethyl-	8.953	96	4000
2245-38-7	Naphthalene, 1,6,7-trimethyl-	9.194	98	7282
829-26-5	Naphthalene, 2,3,6-trimethyl-	9.293	98	7932
3892-00-0	Pentadecane, 2,6,10-trimethyl-	9.775	93	8945
529-05-5	Chamazulene	9.859	94	1926
1921-70-6	Pentadecane, 2,6,10,14-tetramethyl-	10.064	96	17326
7350-72-3	1,4-Methanonaphthalene,1,4-dihydro-9-((1-methylethylidene)-	10.112	86	3154
51282-56-5	Ethyl 5-chloro-2-nitrobenzoate	10.232	92	1565
638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	10.545	96	19194
67388-11-8	4-Methylnaphtho[1,2-b]thiophene	10.803	95	6863
832-64-4	Phenanthrene, 4-methyl-	10.903	90	3804
610-48-0	Anthracene, 1-methyl-	10.923	95	8606
2531-84-2	Phenanthrene, 2-methyl-	11.012	95	9265

Client Name: AECOM
Reference: 60569745
Location: VP1 (TLOR)
Contact: Alex Freeman

Note:

Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions, including ACM type and Asbestos level, lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Jones Environmental Laboratory consultant, Jones Environmental Laboratory cannot be responsible for inaccurate or unrepresentative sampling.

Signed on behalf of Jones Environmental Laboratory:

Ryan Butterworth
 Asbestos Team Leader

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	Date Of Analysis	Analysis	Result
18/5166	1	BH06	0.40-0.70	3	11/04/2018	General Description (Bulk Analysis)	soil-stones
					11/04/2018	Asbestos Fibres	NAD
					11/04/2018	Asbestos Fibres (2)	NAD
					11/04/2018	Asbestos ACM	NAD
					11/04/2018	Asbestos ACM (2)	NAD
					11/04/2018	Asbestos Type	NAD
					11/04/2018	Asbestos Type (2)	NAD
					11/04/2018	Asbestos Level Screen	NAD
18/5166	1	BH01	0.45-0.70	6	11/04/2018	General Description (Bulk Analysis)	Soil/Stones
					11/04/2018	Asbestos Fibres	Fibre Bundles
					11/04/2018	Asbestos ACM	NAD
					11/04/2018	Asbestos Type	Chrysotile
					11/04/2018	Asbestos Level Screen	less than 0.1%
					30/04/2018	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					30/04/2018	Total Detailed Gravimetric Quantification (% Asb)	<0.001 (mass %)
					30/04/2018	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	<0.001 (mass %)
18/5166	1	TT03	0.00-1.40	9	11/04/2018	General Description (Bulk Analysis)	Soil/Stones
					11/04/2018	Asbestos Fibres	NAD
					11/04/2018	Asbestos Fibres (2)	NAD
					11/04/2018	Asbestos ACM	NAD
					11/04/2018	Asbestos ACM (2)	NAD
					11/04/2018	Asbestos Type	NAD
					11/04/2018	Asbestos Type (2)	NAD
					11/04/2018	Asbestos Level Screen	NAD
18/5166	1	TT02	0.50-1.20	12	11/04/2018	General Description (Bulk Analysis)	soil/stones
					11/04/2018	Asbestos Fibres	NAD
					11/04/2018	Asbestos Fibres (2)	NAD
					11/04/2018	Asbestos ACM	NAD
					11/04/2018	Asbestos ACM (2)	NAD
					11/04/2018	Asbestos Type	NAD
					11/04/2018	Asbestos Type (2)	NAD
					11/04/2018	Asbestos Level Screen	NAD

Client Name: AECOM
 Reference: 60569745
 Location: VP1 (TLOR)
 Contact: Alex Freeman

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	Date Of Analysis	Analysis	Result
18/5166	1	WS01	1.00-1.25	15	11/04/2018	General Description (Bulk Analysis)	soil/stones
					11/04/2018	Asbestos Fibres	Fibre Bundles
					11/04/2018	Asbestos ACM	NAD
					11/04/2018	Asbestos Type	Chrysotile
					11/04/2018	Asbestos Level Screen	less than 0.1%
					30/04/2018	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					30/04/2018	Total Detailed Gravimetric Quantification (% Asb)	<0.001 (mass %)
					30/04/2018	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	<0.001 (mass %)
					30/04/2018	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					30/04/2018	Asbestos Gravimetric & PCOM Total	<0.001 (mass %)
18/5166	1	WS04	0.50	18	11/04/2018	General Description (Bulk Analysis)	soil/stones
					11/04/2018	Asbestos Fibres	NAD
					11/04/2018	Asbestos Fibres (2)	NAD
					11/04/2018	Asbestos ACM	NAD
					11/04/2018	Asbestos ACM (2)	NAD
					11/04/2018	Asbestos Type	NAD
					11/04/2018	Asbestos Type (2)	NAD
					11/04/2018	Asbestos Level Screen	NAD
18/5166	1	TP10	0.40-0.60	21	11/04/2018	General Description (Bulk Analysis)	soil/stones
					11/04/2018	Asbestos Fibres	NAD
					11/04/2018	Asbestos Fibres (2)	NAD
					11/04/2018	Asbestos ACM	NAD
					11/04/2018	Asbestos ACM (2)	NAD
					11/04/2018	Asbestos Type	NAD
					11/04/2018	Asbestos Type (2)	NAD
					11/04/2018	Asbestos Level Screen	NAD
18/5333	1	TT01	1.70-1.90	3	16/04/2018	General Description (Bulk Analysis)	Soil/Stone
					16/04/2018	Asbestos Fibres	NAD
					16/04/2018	Asbestos Fibres (2)	NAD
					16/04/2018	Asbestos ACM	NAD
					16/04/2018	Asbestos ACM (2)	NAD
					16/04/2018	Asbestos Type	NAD
					16/04/2018	Asbestos Type (2)	NAD
					16/04/2018	Asbestos Level Screen	NAD
18/5333	1	TP09	0.30-0.40	6	16/04/2018	General Description (Bulk Analysis)	Soil/Stone
					16/04/2018	Asbestos Fibres	NAD
					16/04/2018	Asbestos Fibres (2)	NAD
					16/04/2018	Asbestos ACM	NAD
					16/04/2018	Asbestos ACM (2)	NAD
					16/04/2018	Asbestos Type	NAD
					16/04/2018	Asbestos Type (2)	NAD
					16/04/2018	Asbestos Level Screen	NAD
18/5333	1	TP07	1.30-1.60	9	16/04/2018	General Description (Bulk Analysis)	Soil/Stone
					16/04/2018	Asbestos Fibres	NAD
					16/04/2018	Asbestos Fibres (2)	NAD
					16/04/2018	Asbestos ACM	NAD
					16/04/2018	Asbestos ACM (2)	NAD
					16/04/2018	Asbestos Type	NAD

Client Name: AECOM
 Reference: 60569745
 Location: VP1 (TLOR)
 Contact: Alex Freeman

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	Date Of Analysis	Analysis	Result
18/5333	1	TP07	1.30-1.60	9	16/04/2018	Asbestos Type (2)	NAD
					16/04/2018	Asbestos Level Screen	NAD
18/5333	1	TP08	0.20-0.50	15	16/04/2018	General Description (Bulk Analysis)	soil.stones
					16/04/2018	Asbestos Fibres	NAD
					16/04/2018	Asbestos Fibres (2)	NAD
					16/04/2018	Asbestos ACM	NAD
					16/04/2018	Asbestos ACM (2)	NAD
					16/04/2018	Asbestos Type	NAD
					16/04/2018	Asbestos Type (2)	NAD
					16/04/2018	Asbestos Level Screen	NAD
18/5333	1	WS02	0.00-0.50	18	16/04/2018	General Description (Bulk Analysis)	Soil/Stone
					16/04/2018	Asbestos Fibres	NAD
					16/04/2018	Asbestos Fibres (2)	NAD
					16/04/2018	Asbestos ACM	NAD
					16/04/2018	Asbestos ACM (2)	NAD
					16/04/2018	Asbestos Type	NAD
					16/04/2018	Asbestos Type (2)	NAD
					16/04/2018	Asbestos Level Screen	NAD
18/5333	1	TP05	0.50-0.70	21	16/04/2018	General Description (Bulk Analysis)	Soil/Stone
					16/04/2018	Asbestos Fibres	NAD
					16/04/2018	Asbestos Fibres (2)	NAD
					16/04/2018	Asbestos ACM	NAD
					16/04/2018	Asbestos ACM (2)	NAD
					16/04/2018	Asbestos Type	NAD
					16/04/2018	Asbestos Type (2)	NAD
					16/04/2018	Asbestos Level Screen	NAD
18/5333	1	WS05	0.50-1.00	24	16/04/2018	General Description (Bulk Analysis)	Soil/Stone
					16/04/2018	Asbestos Fibres	NAD
					16/04/2018	Asbestos Fibres (2)	NAD
					16/04/2018	Asbestos ACM	NAD
					16/04/2018	Asbestos ACM (2)	NAD
					16/04/2018	Asbestos Type	NAD
					16/04/2018	Asbestos Type (2)	NAD
					16/04/2018	Asbestos Level Screen	NAD
18/5333	1	TP04	0.80-1.00	27	16/04/2018	General Description (Bulk Analysis)	Soil/Stone
					16/04/2018	Asbestos Fibres	NAD
					16/04/2018	Asbestos Fibres (2)	NAD
					16/04/2018	Asbestos ACM	NAD
					16/04/2018	Asbestos ACM (2)	NAD
					16/04/2018	Asbestos Type	NAD
					16/04/2018	Asbestos Type (2)	NAD
					16/04/2018	Asbestos Level Screen	NAD
18/5333	1	WS03	0.00-1.20	29	16/04/2018	General Description (Bulk Analysis)	soil.stones
					16/04/2018	Asbestos Fibres	NAD
					16/04/2018	Asbestos Fibres (2)	NAD
					16/04/2018	Asbestos ACM	NAD
					16/04/2018	Asbestos ACM (2)	NAD

Client Name: AECOM
Reference: 60569745
Location: VP1 (TLOR)
Contact: Alex Freeman

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	Date Of Analysis	Analysis	Result
18/5333	1	WS03	0.00-1.20	29	16/04/2018	Asbestos Type	NAD
					16/04/2018	Asbestos Type (2)	NAD
					16/04/2018	Asbestos Level Screen	NAD
18/5384	1	TP06	0.40-0.60	3	17/04/2018	General Description (Bulk Analysis)	Soil/Stone
					17/04/2018	Asbestos Fibres	Fibre Bundles
					17/04/2018	Asbestos ACM	NAD
					17/04/2018	Asbestos Type	Chrysotile
					17/04/2018	Asbestos Level Screen	less than 0.1%
					26/04/2018	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					26/04/2018	Total Detailed Gravimetric Quantification (% Asb)	<0.001 (mass %)
					26/04/2018	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	<0.001 (mass %)
					26/04/2018	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					26/04/2018	Asbestos Gravimetric & PCOM Total	<0.001 (mass %)
18/5384	1	TP01	0.70-0.90	9	17/04/2018	General Description (Bulk Analysis)	Soil/Stone
					17/04/2018	Asbestos Fibres	Fibre Bundles
					17/04/2018	Asbestos ACM	NAD
					17/04/2018	Asbestos Type	Chrysotile
					17/04/2018	Asbestos Level Screen	less than 0.1%
					26/04/2018	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					26/04/2018	Total Detailed Gravimetric Quantification (% Asb)	<0.001 (mass %)
					26/04/2018	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	<0.001 (mass %)
					26/04/2018	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					26/04/2018	Asbestos Gravimetric & PCOM Total	<0.001 (mass %)
18/5384	1	TP02	0.30-0.50	15	17/04/2018	General Description (Bulk Analysis)	Soil/Stone
					17/04/2018	Asbestos Fibres	Fibre Bundles
					17/04/2018	Asbestos ACM	NAD
					17/04/2018	Asbestos Type	Chrysotile
					17/04/2018	Asbestos Level Screen	less than 0.1%
					26/04/2018	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					26/04/2018	Total Detailed Gravimetric Quantification (% Asb)	<0.001 (mass %)
					26/04/2018	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	<0.001 (mass %)
					26/04/2018	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					26/04/2018	Asbestos Gravimetric & PCOM Total	<0.001 (mass %)
18/5384	1	WS06	0.00-1.20	21	17/04/2018	General Description (Bulk Analysis)	Soil/Stone
					17/04/2018	Asbestos Fibres	NAD
					17/04/2018	Asbestos Fibres (2)	NAD
					17/04/2018	Asbestos ACM	NAD
					17/04/2018	Asbestos ACM (2)	NAD
					17/04/2018	Asbestos Type	NAD
					17/04/2018	Asbestos Type (2)	NAD
					17/04/2018	Asbestos Level Screen	NAD
18/5384	1	BH03	1.50-2.00	24	17/04/2018	General Description (Bulk Analysis)	Soil/Stone
					17/04/2018	Asbestos Fibres	NAD
					17/04/2018	Asbestos Fibres (2)	NAD
					17/04/2018	Asbestos ACM	NAD
					17/04/2018	Asbestos ACM (2)	NAD
					17/04/2018	Asbestos Type	NAD
17/04/2018	Asbestos Type (2)	NAD					

Client Name: AECOM
 Reference: 60569745
 Location: VP1 (TLOR)
 Contact: Alex Freeman

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	Date Of Analysis	Analysis	Result
18/5384	1	BH03	1.50-2.00	24	17/04/2018	Asbestos Level Screen	NAD
18/5384	1	WS07	0.30-0.80	27	17/04/2018	General Description (Bulk Analysis)	Soil/Stone
					17/04/2018	Asbestos Fibres	NAD
					17/04/2018	Asbestos Fibres (2)	NAD
					17/04/2018	Asbestos ACM	NAD
					17/04/2018	Asbestos ACM (2)	NAD
					17/04/2018	Asbestos Type	NAD
					17/04/2018	Asbestos Type (2)	NAD
					17/04/2018	Asbestos Level Screen	NAD
18/5384	1	WS08	0.00-1.20	30	17/04/2018	General Description (Bulk Analysis)	Soil/Stone
					17/04/2018	Asbestos Fibres	NAD
					17/04/2018	Asbestos Fibres (2)	NAD
					17/04/2018	Asbestos ACM	NAD
					17/04/2018	Asbestos ACM (2)	NAD
					17/04/2018	Asbestos Type	NAD
					17/04/2018	Asbestos Type (2)	NAD
					17/04/2018	Asbestos Level Screen	NAD
18/5455	1	BH02	0.60-1.00	3	18/04/2018	General Description (Bulk Analysis)	soil/stones
					18/04/2018	Asbestos Fibres	Fibre Bundles
					18/04/2018	Asbestos ACM	NAD
					18/04/2018	Asbestos Type	Chrysotile
					18/04/2018	Asbestos Level Screen	less than 0.1%
					26/04/2018	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					26/04/2018	Total Detailed Gravimetric Quantification (% Asb)	<0.001 (mass %)
					26/04/2018	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	<0.001 (mass %)
					26/04/2018	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					26/04/2018	Asbestos Gravimetric & PCOM Total	<0.001 (mass %)
18/5775	1	BH04	0.50-1.20	3	24/04/2018	General Description (Bulk Analysis)	Soil/Stone
					24/04/2018	Asbestos Fibres	NAD
					24/04/2018	Asbestos Fibres (2)	NAD
					24/04/2018	Asbestos ACM	NAD
					24/04/2018	Asbestos ACM (2)	NAD
					24/04/2018	Asbestos Type	NAD
					24/04/2018	Asbestos Type (2)	NAD
					24/04/2018	Asbestos Level Screen	NAD
18/5775	1	BH05	1.80-2.25	6	24/04/2018	General Description (Bulk Analysis)	Soil/Stone
					24/04/2018	Asbestos Fibres	NAD
					24/04/2018	Asbestos Fibres (2)	NAD
					24/04/2018	Asbestos ACM	NAD
					24/04/2018	Asbestos ACM (2)	NAD
					24/04/2018	Asbestos Type	NAD
					24/04/2018	Asbestos Type (2)	NAD
					24/04/2018	Asbestos Level Screen	NAD

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 18/7222 18/5333 18/5166 18/5455 18/5775 18/5384

SOILS

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Please include all sections of this report if it is reproduced

All solid results are expressed on a dry weight basis unless stated otherwise.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to an Exova Jones Environmental approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range
AA	x2 Dilution
AB	x10 Dilution

JE Job No: 18/7222 18/5333 18/5166 18/5455 18/5775 18/5384

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM0	Not available	PM0	No preparation is required.				
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465 and BS1377.	PM0	No preparation is required.				
TM5	Modified USEPA 8015B method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) with carbon banding within the range C8-C40 GC-FID.	PM16/PM30	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM5	Modified USEPA 8015B method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) with carbon banding within the range C8-C40 GC-FID.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5	Modified USEPA 8015B method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) with carbon banding within the range C8-C40 GC-FID.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes	Yes	AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM12/PM16/PM30	please refer to PM16/PM30 and PM12 for method details	Yes			
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details	Yes		AR	Yes
PM13	A visual examination of the solid sample is carried out to ascertain sample make up, colour and any other inclusions. This is not a geotechnical description.	PM0	No preparation is required.			AR	
TM15	Modified USEPA 8260. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.				

JE Job No: 18/7222 18/5333 18/5166 18/5455 18/5775 18/5384

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM15	Modified USEPA 8260. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.	Yes			
TM15	Modified USEPA 8260. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM15	Modified USEPA 8260. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM15	Modified USEPA 8260. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.	Yes	Yes	AR	Yes
TM16	Modified USEPA 8270. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				
TM16	Modified USEPA 8270. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM16	Modified USEPA 8270. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM16	Modified USEPA 8270. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes	Yes	AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO2 generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Dried and ground solid samples are washed with hydrochloric acid, then rinsed with deionised water to remove the mineral carbon before TOC analysis.			AD	Yes
TM30	Determination of Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry). Modified US EPA Method 200.7, 6010B and BS EN ISO 11885 2009	PM14	Analysis of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for dissolved metals and acidified if required.				

JE Job No: 18/7222 18/5333 18/5166 18/5455 18/5775 18/5384

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM30	Determination of Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry). Modified US EPA Method 200.7, 6010B and BS EN ISO 11885 2009	PM14	Analysis of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for dissolved metals and acidified if required.	Yes			
TM30	Determination of Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry). Modified US EPA Method 200.7, 6010B and BS EN ISO 11885 2009	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.			AD	Yes
TM30	Determination of Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry). Modified US EPA Method 200.7, 6010B and BS EN ISO 11885 2009	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes	Yes	AD	Yes
TM30	Determination of Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry). Modified US EPA Method 200.7, 6010B and BS EN ISO 11885 2009	PM62	Acid digestion of as received solid samples using Aqua Regia refluxed at 112.5 °C.			AR	Yes
TM31	Modified USEPA 8015B. Determination of Methylterbutylether, Benzene, Toluene, Ethylbenzene and Xylene by headspace GC-FID.	PM12	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.	Yes			
TM36	Modified US EPA method 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID.	PM12	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.	Yes			
TM36	Modified US EPA method 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID.	PM12	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID.	PM12	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM36	Modified US EPA method 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID.	PM12	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.	Yes	Yes	AR	Yes
TM37	Modified methods USEPA 160.2, EN872:2005 and SMWW 2540D. Gravimetric determination of Total Suspended Solids. Sample is filtered through a 1.5um pore size glass fibre filter and the resulting residue is dried and weighed.	PM0	No preparation is required.	Yes			

JE Job No: 18/7222 18/5333 18/5166 18/5455 18/5775 18/5384

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods 325.2 (Chloride), 375.4 (Sulphate), 365.2 (o-Phosphate), 353.1 (TON), 354.1 (Nitrite), 350.1 (NH4+), 7196A (Hex Cr)	PM0	No preparation is required.				
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods 325.2 (Chloride), 375.4 (Sulphate), 365.2 (o-Phosphate), 353.1 (TON), 354.1 (Nitrite), 350.1 (NH4+), 7196A (Hex Cr)	PM0	No preparation is required.	Yes			
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods 325.2 (Chloride), 375.4 (Sulphate), 365.2 (o-Phosphate), 353.1 (TON), 354.1 (Nitrite), 350.1 (NH4+), 7196A (Hex Cr)	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods 325.2 (Chloride), 375.4 (Sulphate), 365.2 (o-Phosphate), 353.1 (TON), 354.1 (Nitrite), 350.1 (NH4+), 7196A (Hex Cr)	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes	Yes	AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods 325.2 (Chloride), 375.4 (Sulphate), 365.2 (o-Phosphate), 353.1 (TON), 354.1 (Nitrite), 350.1 (NH4+), 7196A (Hex Cr)	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods 325.2 (Chloride), 375.4 (Sulphate), 365.2 (o-Phosphate), 353.1 (TON), 354.1 (Nitrite), 350.1 (NH4+), 7196A (Hex Cr)	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods 325.2 (Chloride), 375.4 (Sulphate), 365.2 (o-Phosphate), 353.1 (TON), 354.1 (Nitrite), 350.1 (NH4+), 7196A (Hex Cr)	PM60	As received solid samples are extracted with deionised water in a 2:1 ratio of water to solid.			AR	Yes
TM48	Determination of Ferrous Iron by reaction with Sodium Carbonate and Morfamquat Sulphate which is analysed spectrophotometrically.	PM0	No preparation is required.				
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	Dried and ground solid sample is boiled with dilute hydrochloric acid, the resulting liquor is then analysed.	Yes	Yes	AD	Yes
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	Dried and ground solid sample is boiled with dilute hydrochloric acid, the resulting liquor is then analysed.			AR	Yes

JE Job No: 18/7222 18/5333 18/5166 18/5455 18/5775 18/5384

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM60	TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060, APHA Standard Methods for Examination of Water and Wastewater 5310B, ASTM D 7573, and USEPA 415.1.	PM0	No preparation is required.	Yes			
TM65	Asbestos Bulk Identification method based on HSG 248.	PM42	Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	
TM73	Modified US EPA methods 150.1 and 9045D and BS1377:1990. Determination of pH by Metrohm automated probe analyser.	PM0	No preparation is required.	Yes			
TM73	Modified US EPA methods 150.1 and 9045D and BS1377:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes	Yes	AR	No
TM74	Analysis of water soluble boron (20:1 extract) by ICP-OES.	PM32	Hot water soluble boron is extracted from dried and ground samples using a 20:1 ratio.	Yes	Yes	AD	Yes
TM74	Analysis of water soluble boron (20:1 extract) by ICP-OES.	PM61	As received solid samples are extracted with hot water in a 20:1 ratio of water to soil ready for analysis by ICP.			AR	Yes
TM75	Modified US EPA method 310.1. Determination of Alkalinity by Metrohm automated titration analyser.	PM0	No preparation is required.	Yes			
TM107	Determination of Sulphide/Thiocyanate by Skalar Continuous Flow Analyser	PM119	As received solid samples are extracted with 1M NaOH by orbital shaker for Sulphide and Thiocyanate analysis.			AR	Yes
TM131	Quantification of Asbestos Fibres and ACM, based on HSG248 and SCA method.	PM42	Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	Yes
TM173	Analysis of fluoride by ISE (Ion Selective Electrode) using modified ISE method 340.2	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AR	Yes

