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Newport City Council
Civic Centre
Newport
NP20 4UR

Attention: Luke Embrey

CERTIFICATE OF ANALYSIS

Date of report Generation: 07 October 2020
Customer: Newport City Council
Sample Delivery Group (SDG): 200919-50
Your Reference: Sept GW 2020 Area 2 Part 2 & GW Area 1
Location: Newport landfill
Report No: 570297

This report has been revised and directly supersedes 570228 in its entirety.

We received 9 samples on Saturday September 19, 2020 and 9 of these samples were scheduled for analysis which was completed on Wednesday October 07, 2020. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan

Operations Manager





CERTIFICATE OF ANALYSIS

Validated

SDG: 200919-50 **Client Reference:** Sept GW 2020 Area 2 Part **Report Number:** 570297
Location: Newport landfill **Order Number:** 700154310 **Superseded Report:** 570228

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
22859774	GW03_02		0.00 - 0.00	17/09/2020
22859748	GW03_05		0.00 - 0.00	17/09/2020
22859705	GW06_13		0.00 - 0.00	17/09/2020
22859673	GW06_36		0.00 - 0.00	17/09/2020
22859688	GW06_37		0.00 - 0.00	17/09/2020
22859765	GW07_07		0.00 - 0.00	17/09/2020
22859655	GW09_35		0.00 - 0.00	17/09/2020
22859718	GW12_38		0.00 - 0.00	17/09/2020
22859730	GW06_14A		0.00 - 0.00	17/09/2020

Only received samples which have had analysis scheduled will be shown on the following pages.



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SDG:	200919-50	Client Reference:	Sept GW 2020 Area 2 Part	Report Number:	570297
Location:	Newport landfill	Order Number:	700154310	Superseded Report:	570228

Results Legend <div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;"> <div style="width: 15px; height: 15px; background-color: yellow; border: 1px solid black; margin-right: 5px;"></div> Test </div> <div style="display: flex; align-items: center;"> <div style="width: 15px; height: 15px; background-color: red; border: 1px solid black; margin-right: 5px;"></div> No Determination Possible </div> </div> Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type	
		22859774	GW03_02		0.00 - 0.00	0.5l glass bottle (ALE227)	GW
		22859748	GW03_05		0.00 - 0.00	Vial (ALE297)	GW
		22859705	GW06_13		0.00 - 0.00	NaOH (ALE245)	GW
						HNO3 Filtered (ALE204)	GW
						H2SO4 (ALE244)	GW
						500ml Plastic (ALE208)	GW
					250ml BOD (ALE12)	GW	
					0.5l glass bottle (ALE227)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
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SDG:	200919-50	Client Reference:	Sept GW 2020 Area 2 Part	Report Number:	570297
Location:	Newport landfill	Order Number:	700154310	Superseded Report:	570228

Results Legend <div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;"> Test</div> <div style="display: flex; align-items: center;"> No Determination Possible</div> </div> Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type	
		22859655	GW09_35		0.00 - 0.00	Vial (ALE297)	GW
		22859718	GW12_38		0.00 - 0.00	Vial (ALE297)	GW
		22859730	GW06_14A		0.00 - 0.00	Vial (ALE297)	GW
						NaOH (ALE245)	GW
						HNO3 Filtered (ALE204)	GW
						H2SO4 (ALE244)	GW
					500ml Plastic (ALE208)	GW	
					250ml BOD (ALE212)	GW	
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Results Legend <div style="margin-top: 5px;"> X Test </div> <div style="margin-top: 5px;"> N No Determination Possible </div> Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type																							
								Vial (ALE297)	NaOH (ALE245)	HNO3 Filtered (ALE204)	H2SO4 (ALE244)	500ml Plastic (ALE208)	250ml BOD (ALE212)	0.5l glass bottle (ALE227)	Vial (ALE297)	NaOH (ALE245)	HNO3 Filtered (ALE204)	H2SO4 (ALE244)	500ml Plastic (ALE208)	250ml BOD (ALE212)	0.5l glass bottle (ALE227)	Vial (ALE297)	NaOH (ALE245)	HNO3 Filtered (ALE204)	H2SO4 (ALE244)	500ml Plastic (ALE208)	250ml BOD (ALE212)	0.5l glass bottle (ALE227)	
		22859655	GW09_35		0.00 - 0.00		GW																						
		22859718	GW12_38		0.00 - 0.00		GW																						
		22859730	GW06_14A		0.00 - 0.00		GW																						
							GW																						
							GW																						
Pesticides (Suite II) by GCMS	All					NDPs: 0 Tests: 9																							
Pesticides (Suite III) by GCMS	All					NDPs: 0 Tests: 9																							
pH Value	All					NDPs: 0 Tests: 9																							
Phenols by HPLC (W)	All					NDPs: 0 Tests: 9																							
Phosphate by Kone (w)	All					NDPs: 0 Tests: 6																							
Sulphide	All					NDPs: 0 Tests: 6																							
SVOC MS (W) - Aqueous	All					NDPs: 0 Tests: 9																							
VOC MS (W)	All					NDPs: 0 Tests: 9																							



CERTIFICATE OF ANALYSIS

Validated

SDG:	200919-50	Client Reference:	Sept GW 2020 Area 2 Part	Report Number:	570297
Location:	Newport landfill	Order Number:	700154310	Superseded Report:	570228

Results Legend			Customer Sample Ref.	GW03_02	GW03_05	GW06_13	GW06_36	GW06_37	GW07_07
# ISO17025 accredited.									
M mCERTS accredited.									
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfilt Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F) Trigger breach confirmed									
1-3*5@ Sample deviation (see appendix)									
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
			Date Sampled	17/09/2020	17/09/2020	17/09/2020	17/09/2020	17/09/2020	17/09/2020
			Sampled Time						
			Date Received	19/09/2020	19/09/2020	19/09/2020	19/09/2020	19/09/2020	19/09/2020
			SDG Ref	200919-50	200919-50	200919-50	200919-50	200919-50	200919-50
			Lab Sample No.(s)	22859774	22859748	22859705	22859673	22859688	22859765
			AGS Reference						
Component	LOD/Units	Method							
Ionic balance	% Diff	Calulation				-5.41	-1.22	-8.47	
Alkalinity, Total as CaCO3	<2 mg/l	TM043	890	730	935	1020	1150	670	
BOD, unfiltered	<1 mg/l	TM045			2.37	17.4	31.8		
Carbon, Organic (diss.filt)	<3 mg/l	TM090			12	15.1	36.3		
Organic Carbon, Total	<3 mg/l	TM090	12.5	9.3					12.2
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	35.7	25.5	11.9	9.11	42.4	7.49	
Sulphide	<0.01 mg/l	TM101			<0.01	<0.01	1.66		
COD, unfiltered	<7 mg/l	TM107	55.6	152	77.7	184	212	67.2	
Conductivity @ 20 deg.C	<0.02 mS/cm	TM120	1.69	2	7.92	10.6	13.4	2.06	
Arsenic (diss.filt)	<0.5 µg/l	TM152	2.84	18.1	1.73	1.4	4.11	1.13	
Boron (diss.filt)	<10 µg/l	TM152			1420	1300	1430		
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
Chromium (diss.filt)	<1 µg/l	TM152	<1	<1	<1	<1	1.51	<1	
Copper (diss.filt)	<0.3 µg/l	TM152	<0.3	1.4	<0.3	<0.3	3.42	1.12	
Lead (diss.filt)	<0.2 µg/l	TM152	<0.2	<0.2	<0.2	<0.2	3.68	<0.2	
Manganese (diss.filt)	<3 µg/l	TM152	558	605	410	208	775	881	
Nickel (diss.filt)	<0.4 µg/l	TM152	2.81	16.8	0.94	2.91	3.32	3.35	
Selenium (diss.filt)	<1 µg/l	TM152			<1	<1	<1		
Zinc (diss.filt)	<1 µg/l	TM152	4.52	123	3.17	<1	34.4	<1	
Sodium (Dis.Filt)	<0.076 mg/l	TM152	83	236	1260	2020	2490	263	
Magnesium (Dis.Filt)	<0.036 mg/l	TM152	71.8	39.2	202	219	253	44.5	
Potassium (Dis.Filt)	<0.2 mg/l	TM152	35.6	28.1	52.9	61.9	77.7	18.5	
Calcium (Dis.Filt)	<0.2 mg/l	TM152	165	134	105	182	64.3	111	
Iron (Dis.Filt)	<0.019 mg/l	TM152			0.147	0.261	3.64		
Hardness, Total as CaCO3	<0.65 mg/l	TM152			1090	1360	1130		
EPH Range >C10 - C40 (aq)	<100 µg/l	TM172	442	278	112	564	499	143	
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrite as NO2	<0.05 mg/l	TM184			<0.05	<0.05	<0.05		
Phosphate (Ortho as PO4)	<0.05 mg/l	TM184			4.45	10.5	2.45		
Sulphate	<2 mg/l	TM184	6.7	33.7	117	108	16.9	13.1	
Chloride	<2 mg/l	TM184	108	295	2400	3460	4990	354	
Nitrate as NO3	<0.3 mg/l	TM184			2.31	<0.3	<0.3		



CERTIFICATE OF ANALYSIS

Validated

SDG:	200919-50	Client Reference:	Sept GW 2020 Area 2 Part	Report Number:	570297
Location:	Newport landfill	Order Number:	700154310	Superseded Report:	570228

Results Legend			Customer Sample Ref.	GW03_02	GW03_05	GW06_13	GW06_36	GW06_37	GW07_07
# ISO17025 accredited. M mCERTS accredited. sq Aqueous / settled sample. diss.fit Dissolved / filtered sample. tot.unfit Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-345@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GW03_02	GW03_05	GW06_13	GW06_36	GW06_37	GW07_07		
		0.00 - 0.00 Ground Water (GW) 17/09/2020	0.00 - 0.00 Ground Water (GW) 17/09/2020	0.00 - 0.00 Ground Water (GW) 17/09/2020	0.00 - 0.00 Ground Water (GW) 17/09/2020	0.00 - 0.00 Ground Water (GW) 17/09/2020	0.00 - 0.00 Ground Water (GW) 17/09/2020	0.00 - 0.00 Ground Water (GW) 17/09/2020	
		19/09/2020 200919-50 22859774	19/09/2020 200919-50 22859748	19/09/2020 200919-50 22859705	19/09/2020 200919-50 22859673	19/09/2020 200919-50 22859688	19/09/2020 200919-50 22859765		
Component	LOD/Units	Method							
Total Oxidised Nitrogen as N	<0.1 mg/l	TM184	0.179 #	<0.1 #	0.527 #	<0.1 #	<0.1 #	<0.1 #	
Cyanide, Total	<0.05 mg/l	TM227	<0.05 #	<0.05 #	<0.05 #	<0.05 #	<0.05 #	<0.05 #	
Cyanide, Free	<0.05 mg/l	TM227	<0.05 #	<0.05 #				<0.05 #	
pH	<1 pH Units	TM256	7.14 #	7.11 #	7.97 #	7.76 #	7.75 #	7.44 #	
Phenols, Total Detected monohydric	<0.016 mg/l	TM259	<0.016 #	<0.016 #	<0.016 #	<0.016 #	<0.016 #	<0.016 #	
Dibutyl tin	<5 ng/l	TM328	<5	<5	<5	<5	<5	<5	
Tributyl tin	<1 ng/l	TM328	<1	<1	<1	<1	<1	<1	
Tetrabutyl tin	<2 ng/l	TM328	<2	<2	<2	<2	<2	<2	
Triphenyl tin	<1 ng/l	TM328	<1	<1	<1	<1	<1	<1	
Surrogate	%	TM328	75.8	77	87.5	50.8	52.9	70.4	
Trifluralin	<0.01 µg/l	TM343	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
alpha-HCH	<0.01 µg/l	TM343	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
gamma-HCH (Lindane)	<0.01 µg/l	TM343	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Heptachlor	<0.01 µg/l	TM343	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Aldrin	<0.01 µg/l	TM343	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
beta-HCH	<0.01 µg/l	TM343	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Isodrin	<0.01 µg/l	TM343	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
delta-HCH	<0.01 µg/l	TM343	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Heptachlor epoxide	<0.01 µg/l	TM343	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
o,p'-DDE	<0.01 µg/l	TM343	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Endosulphan I	<0.01 µg/l	TM343	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
trans-Chlordane	<0.01 µg/l	TM343	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
cis-Chlordane	<0.01 µg/l	TM343	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
p,p'-DDE	<0.01 µg/l	TM343	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Dieldrin	<0.01 µg/l	TM343	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
o,p'-DDD (TDE)	<0.01 µg/l	TM343	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Endrin	<0.01 µg/l	TM343	<0.01	<0.01	<0.02	<0.01	<0.02	<0.02	
o,p'-DDT	<0.01 µg/l	TM343	<0.01	<0.01	<0.03	<0.01	<0.03	<0.03	
p,p'-DDD (TDE)	<0.01 µg/l	TM343	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Endosulphan II	<0.02 µg/l	TM343	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
p,p'-DDT	<0.01 µg/l	TM343	<0.01	<0.01	<0.04	<0.01	<0.04	<0.04	
o,p'-Methoxychlor	<0.01 µg/l	TM343	<0.01	<0.01	<0.03	<0.01	<0.03	<0.03	



CERTIFICATE OF ANALYSIS

Validated

SDG:	200919-50	Client Reference:	Sept GW 2020 Area 2 Part	Report Number:	570297
Location:	Newport landfill	Order Number:	700154310	Superseded Report:	570228

Results Legend			Customer Sample Ref.	GW03_02	GW03_05	GW06_13	GW06_36	GW06_37	GW07_07
# ISO17025 accredited. M mCERTS accredited. sq Aqueous / settled sample. dis.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-345@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.00 Ground Water (GW) 17/09/2020	0.00 - 0.00 Ground Water (GW) 17/09/2020	0.00 - 0.00 Ground Water (GW) 17/09/2020	0.00 - 0.00 Ground Water (GW) 17/09/2020	0.00 - 0.00 Ground Water (GW) 17/09/2020	0.00 - 0.00 Ground Water (GW) 17/09/2020
Component	LOD/Units	Method							
p,p'-Methoxychlor	<0.01 µg/l	TM343	<0.01	<0.01	<0.05	<0.01	<0.05	<0.05	<0.05
Endosulphan Sulphate	<0.02 µg/l	TM343	<0.02	<0.02	<0.04	<0.02	<0.04	<0.04	<0.04
Permethrin I	<0.01 µg/l	TM343	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Permethrin II	<0.01 µg/l	TM343	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,3,5-Trichlorobenzene	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorobutadiene	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
1,2,4-Trichlorobenzene	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
1,2,3-Trichlorobenzene	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Dichlorvos	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Dichlobenil	<0.01 µg/l	TM344	>1.38	0.573	<0.01	<0.01	<0.01	<0.01	0.118
Mevinphos	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Tecnazene	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorobenzene	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Demeton-S-methyl	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Phorate	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Diazinon	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Triallate	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Atrazine	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Simazine	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Disulfoton	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Propetamphos	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Chlorpyrifos-methyl	<0.01 µg/l	TM344	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02	<0.02
Dimethoate	<0.01 µg/l	TM344	<0.02	<0.04	<0.02	<0.04	<0.04	<0.04	<0.02
Pirimiphos-methyl	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Chlorpyrifos	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl Parathion	<0.01 µg/l	TM344	<0.02	<0.04	<0.02	<0.04	<0.04	<0.04	<0.02
Malathion	<0.01 µg/l	TM344	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02	<0.02
Fenthion	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.04	<0.01	<0.01	<0.01
Fenitrothion	<0.01 µg/l	TM344	<0.02	<0.04	<0.02	<0.01	<0.02	<0.02	<0.02
Triadimefon	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Pendimethalin	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Parathion	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01



CERTIFICATE OF ANALYSIS

Validated

SDG:	200919-50	Client Reference:	Sept GW 2020 Area 2 Part	Report Number:	570297
Location:	Newport landfill	Order Number:	700154310	Superseded Report:	570228

Results Legend			Customer Sample Ref.	GW03_02	GW03_05	GW06_13	GW06_36	GW06_37	GW07_07
# ISO17025 accredited.									
M mCERTS accredited.									
aq Aqueous / settled sample.									
dis.filt Dissolved / filtered sample.									
tot.unfilt Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F) Trigger breach confirmed									
1-3*5@ Sample deviation (see appendix)									
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
			Date Sampled	17/09/2020	17/09/2020	17/09/2020	17/09/2020	17/09/2020	17/09/2020
			Sampled Time	.	.	.	.	.	.
			Date Received	19/09/2020	19/09/2020	19/09/2020	19/09/2020	19/09/2020	19/09/2020
			SDG Ref	200919-50	200919-50	200919-50	200919-50	200919-50	200919-50
			Lab Sample No.(s)	22859774	22859748	22859705	22859673	22859688	22859765
			AGS Reference						
Component	LOD/Units	Method							
Chlorfenvinphos	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
trans-Chlordane	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
cis-Chlordane	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Ethion	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Carbophenothion	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Triazophos	<0.01 µg/l	TM344	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Phosalone	<0.01 µg/l	TM344	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02	<0.02
Azinphos methyl	<0.02 µg/l	TM344	<0.16	<0.32	<0.16	<0.16	<0.16	<0.16	<0.16
Azinphos ethyl	<0.02 µg/l	TM344	<0.04	<0.08	<0.04	<0.04	<0.04	<0.04	<0.04
Etridiazole	<0.01 µg/l	TM345	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tributylphosphate	<0.01 µg/l	TM345			<0.01	<0.01	<0.01		
Propachlor	<0.01 µg/l	TM345	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Omethoate	<0.01 µg/l	TM345	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Propazine	<0.01 µg/l	TM345	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Alachlor	<0.01 µg/l	TM345	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Prometryn	<0.01 µg/l	TM345			<0.01	<0.01	<0.01		
Terbutryn	<0.01 µg/l	TM345	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chlorothalonil	<0.01 µg/l	TM345	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Metazachlor	<0.01 µg/l	TM345			<0.01	<0.01	<0.01		
Trietazine	<0.01 µg/l	TM345	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Coumaphos	<0.01 µg/l	TM345	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01



CERTIFICATE OF ANALYSIS

Validated

SDG:	200919-50	Client Reference:	Sept GW 2020 Area 2 Part	Report Number:	570297
Location:	Newport landfill	Order Number:	700154310	Superseded Report:	570228

Results Legend			Customer Sample Ref.	GW09_35	GW12_38	GW06_14A			
# ISO17025 accredited.									
M mCERTS accredited.									
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfilt Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F) Trigger breach confirmed									
1-345@ Sample deviation (see appendix)									
			Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.00 Ground Water (GW) 17/09/2020	0.00 - 0.00 Ground Water (GW) 17/09/2020	0.00 - 0.00 Ground Water (GW) 17/09/2020			
Component	LOD/Units	Method							
Ionic balance	% Diff	Calulation	-7.4	-4.48	5.08				
Alkalinity, Total as CaCO3	<2 mg/l	TM043	955 #	395 #	260 #				
BOD, unfiltered	<1 mg/l	TM045	<1 #	3.12 #	<1 #				
Carbon, Organic (diss.filt)	<3 mg/l	TM090	11 #	17.6 #	4.72 #				
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	14.1 #	<0.2 #	<0.2 #				
Sulphide	<0.01 mg/l	TM101	0.0391 2 #	0.0306 2 #	<0.01 2 #				
COD, unfiltered	<7 mg/l	TM107	<140 #	83.8 #	<140 #				
Conductivity @ 20 deg.C	<0.02 mS/cm	TM120	12.5 #	4.54 #	15 #				
Arsenic (diss.filt)	<0.5 µg/l	TM152	0.727 #	1.57 #	1.55 #				
Boron (diss.filt)	<10 µg/l	TM152	1460 #	1110 #	1150 #				
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08 #	<0.08 #	0.182 #				
Chromium (diss.filt)	<1 µg/l	TM152	<1 #	<1 #	<1 #				
Copper (diss.filt)	<0.3 µg/l	TM152	<0.3 #	3.98 #	3.94 #				
Lead (diss.filt)	<0.2 µg/l	TM152	<0.2 #	<0.2 #	<0.2 #				
Manganese (diss.filt)	<3 µg/l	TM152	240 #	57.7 #	64.1 #				
Nickel (diss.filt)	<0.4 µg/l	TM152	0.603 #	4.18 #	2.82 #				
Selenium (diss.filt)	<1 µg/l	TM152	<1 #	<1 #	<1 #				
Zinc (diss.filt)	<1 µg/l	TM152	1.3 #	3.46 #	16.3 #				
Sodium (Dis.Filt)	<0.076 mg/l	TM152	2120 #	600 #	3170 #				
Magnesium (Dis.Filt)	<0.036 mg/l	TM152	286 #	105 #	392 #				
Potassium (Dis.Filt)	<0.2 mg/l	TM152	73 #	40 #	114 #				
Calcium (Dis.Filt)	<0.2 mg/l	TM152	251 #	281 #	357 #				
Iron (Dis.Filt)	<0.019 mg/l	TM152	0.417 #	0.0254 #	<0.019 #				
Hardness, Total as CaCO3	<0.65 mg/l	TM152	1810 #	1140 #	2510 #				
EPH Range >C10 - C40 (aq)	<100 µg/l	TM172	<100 #	128 #	131 #				
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01 #	<0.01 #	<0.01 #				
Nitrite as NO2	<0.05 mg/l	TM184	<0.05 #	<0.05 #	0.291 #				
Phosphate (Ortho as PO4)	<0.05 mg/l	TM184	9.97 #	0.061 #	0.188 #				
Sulphate	<2 mg/l	TM184	107 #	752 #	855 #				
Chloride	<2 mg/l	TM184	4670 #	837 #	5310 #				
Nitrate as NO3	<0.3 mg/l	TM184	0.616 #	2.76 #	2.96 #				
Total Oxidised Nitrogen as N	<0.1 mg/l	TM184	0.143 #	0.63 #	0.757 #				



CERTIFICATE OF ANALYSIS

Validated

SDG:	200919-50	Client Reference:	Sept GW 2020 Area 2 Part	Report Number:	570297
Location:	Newport landfill	Order Number:	700154310	Superseded Report:	570228

Results Legend			Customer Sample Ref.	GW09_35	GW12_38	GW06_14A			
# ISO17025 accredited. M mCERTS accredited. sq Aqueous / settled sample. dis.fit Dissolved / filtered sample. tot.unfit Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-345@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.00 Ground Water (GW) 17/09/2020 . 19/09/2020 200919-50 22859655	0.00 - 0.00 Ground Water (GW) 17/09/2020 . 19/09/2020 200919-50 22859718	0.00 - 0.00 Ground Water (GW) 17/09/2020 . 19/09/2020 200919-50 22859730				
Component	LOD/Units	Method							
Cyanide, Total	<0.05 mg/l	TM227	<0.05 #	<0.05 #	<0.05 #				
pH	<1 pH Units	TM256	7.85 #	7.56 #	7.68 #				
Phenols, Total Detected monohydric	<0.016 mg/l	TM259	<0.016 #	<0.016 #	<0.016 #				
Dibutyl tin	<5 ng/l	TM328	<5	<5	<5				
Tributyl tin	<1 ng/l	TM328	<1	<1	<1				
Tetrabutyl tin	<2 ng/l	TM328	<2	<2	<2				
Triphenyl tin	<1 ng/l	TM328	<1	<1	<1				
Surrogate	%	TM328	88.4	51.4	88.1				
Trifluralin	<0.01 µg/l	TM343	<0.01	<0.05	<0.01				
alpha-HCH	<0.01 µg/l	TM343	<0.01	<0.05	<0.01				
gamma-HCH (Lindane)	<0.01 µg/l	TM343	<0.01	<0.05	<0.01				
Heptachlor	<0.01 µg/l	TM343	<0.01	<0.05	<0.01				
Aldrin	<0.01 µg/l	TM343	<0.01	<0.05	<0.01				
beta-HCH	<0.01 µg/l	TM343	<0.01	<0.05	<0.01				
Isodrin	<0.01 µg/l	TM343	<0.01	<0.05	<0.01				
delta-HCH	<0.01 µg/l	TM343	<0.01	<0.05	<0.01				
Heptachlor epoxide	<0.01 µg/l	TM343	<0.01	<0.05	<0.01				
o,p'-DDE	<0.01 µg/l	TM343	<0.01	<0.05	<0.01				
Endosulphan I	<0.01 µg/l	TM343	<0.01	<0.05	<0.01				
trans-Chlordane	<0.01 µg/l	TM343	<0.01	<0.05	<0.01				
cis-Chlordane	<0.01 µg/l	TM343	<0.01	<0.05	<0.01				
p,p'-DDE	<0.01 µg/l	TM343	<0.01	<0.05	<0.01				
Dieldrin	<0.01 µg/l	TM343	<0.01	<0.05	<0.01				
o,p'-DDD (TDE)	<0.01 µg/l	TM343	<0.01	<0.05	<0.01				
Endrin	<0.01 µg/l	TM343	<0.02	<0.1	<0.02				
o,p'-DDT	<0.01 µg/l	TM343	<0.03	<0.1	<0.03				
p,p'-DDD (TDE)	<0.01 µg/l	TM343	<0.01	<0.05	<0.01				
Endosulphan II	<0.02 µg/l	TM343	<0.02	<0.1	<0.02				
p,p'-DDT	<0.01 µg/l	TM343	<0.04	<0.1	<0.04				
o,p'-Methoxychlor	<0.01 µg/l	TM343	<0.03	<0.15	<0.03				
p,p'-Methoxychlor	<0.01 µg/l	TM343	<0.05	<0.15	<0.05				
Endosulphan Sulphate	<0.02 µg/l	TM343	<0.04	<0.1	<0.04				



CERTIFICATE OF ANALYSIS

Validated

SDG:	200919-50	Client Reference:	Sept GW 2020 Area 2 Part	Report Number:	570297
Location:	Newport landfill	Order Number:	700154310	Superseded Report:	570228

Results Legend			Customer Sample Ref.	GW09_35	GW12_38	GW06_14A			
# ISO17025 accredited. M mCERTS accredited. sq Aqueous / settled sample. dis.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-345@ Sample deviation (see appendix)	Customer Sample Ref.	Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00				
		Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)				
		Date Sampled	17/09/2020	17/09/2020	17/09/2020				
		Sampled Time	.	.	.				
		Date Received	19/09/2020	19/09/2020	19/09/2020				
		SDG Ref	200919-50	200919-50	200919-50				
		Lab Sample No.(s)	22859655	22859718	22859730				
		AGS Reference							
Component	LOD/Units	Method							
Permethrin I	<0.01 µg/l	TM343	<0.01	<0.05	<0.01				
Permethrin II	<0.01 µg/l	TM343	<0.01	<0.05	<0.01				
1,3,5-Trichlorobenzene	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Hexachlorobutadiene	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
1,2,4-Trichlorobenzene	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
1,2,3-Trichlorobenzene	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Dichlorvos	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Dichlobenil	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Mevinphos	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Tecnazene	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Hexachlorobenzene	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Demeton-S-methyl	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Phorate	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Diazinon	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Triallate	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Atrazine	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Simazine	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Disulfoton	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Propetamphos	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Chlorpyrifos-methyl	<0.01 µg/l	TM344	<0.02	<0.1	<0.02				
Dimethoate	<0.01 µg/l	TM344	<0.02	<0.2	<0.02				
Pirimiphos-methyl	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Chlorpyrifos	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Methyl Parathion	<0.01 µg/l	TM344	<0.02	<0.2	<0.02				
Malathion	<0.01 µg/l	TM344	<0.02	<0.05	<0.02				
Fenthion	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Fenitrothion	<0.01 µg/l	TM344	<0.02	<0.2	<0.02				
Triadimefon	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Pendimethalin	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Parathion	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
Chlorfenvinphos	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				
trans-Chlordane	<0.01 µg/l	TM344	<0.01	<0.05	<0.01				



CERTIFICATE OF ANALYSIS

Validated

SDG:	200919-50	Client Reference:	Sept GW 2020 Area 2 Part	Report Number:	570297
Location:	Newport landfill	Order Number:	700154310	Superseded Report:	570228

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.	GW03_02	GW03_05	GW06_13	GW06_36	GW06_37	GW07_07
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.fit Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery. (F) Trigger breach confirmed 1-3+@ Sample deviation (see appendix)		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.00 Ground Water (GW) 17/09/2020 19/09/2020 200919-50 22859774	0.00 - 0.00 Ground Water (GW) 17/09/2020 19/09/2020 200919-50 22859748	0.00 - 0.00 Ground Water (GW) 17/09/2020 19/09/2020 200919-50 22859705	0.00 - 0.00 Ground Water (GW) 17/09/2020 19/09/2020 200919-50 22859673	0.00 - 0.00 Ground Water (GW) 17/09/2020 19/09/2020 200919-50 22859688	0.00 - 0.00 Ground Water (GW) 17/09/2020 19/09/2020 200919-50 22859765	
Component	LOD/Units	Method							
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
2-Chlorophenol (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
2-Methylphenol (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
2-Nitroaniline (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
2-Nitrophenol (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
3-Nitroaniline (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
4-Chloroaniline (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
4-Methylphenol (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
4-Nitroaniline (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
4-Nitrophenol (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Azobenzene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Acenaphthylene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Acenaphthene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Anthracene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<8 #	<20 #	<2 #	<8 #	<16 #	<2 #	
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	



CERTIFICATE OF ANALYSIS

Validated

SDG:	200919-50	Client Reference:	Sept GW 2020 Area 2 Part	Report Number:	570297
Location:	Newport landfill	Order Number:	700154310	Superseded Report:	570228

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.	GW03_02	GW03_05	GW06_13	GW06_36	GW06_37	GW07_07
# ISO17025 accredited.									
M mCERTS accredited.									
aq Aqueous / filtered sample.									
dis.filt Dissolved / filtered sample.									
tot.unfilt Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F) Trigger breach confirmed									
1-3&@ Sample deviation (see appendix)									
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
			Date Sampled	17/09/2020	17/09/2020	17/09/2020	17/09/2020	17/09/2020	17/09/2020
			Sampled Time
			Date Received	19/09/2020	19/09/2020	19/09/2020	19/09/2020	19/09/2020	19/09/2020
			SDG Ref	200919-50	200919-50	200919-50	200919-50	200919-50	200919-50
			Lab Sample No.(s)	22859774	22859748	22859705	22859673	22859688	22859765
			AGS Reference						
Component	LOD/Units	Method							
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Carbazole (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Chrysene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Dibenzofuran (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Diethyl phthalate (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Dimethyl phthalate (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<20 #	<50 #	<5 #	<20 #	<40 #	<5 #	
Fluoranthene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Fluorene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Hexachlorobenzene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Pentachlorophenol (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Phenol (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Hexachloroethane (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Nitrobenzene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Naphthalene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Isophorone (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Phenanthrene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
Pyrene (aq)	<1 µg/l	TM176	<4 #	<10 #	<1 #	<4 #	<8 #	<1 #	
SVOC TIC (aq)		TM176	Not Detected	Not Detected	Not Detected	Detected	Detected	Detected	
Total SVOC TIC	<10 µg/l	TM176	<40	<100	<10	205	388	795	
Cyclic octaatomic sulfur	µg/l	TM176				165	388	755	
unknown sulfur containing compound	µg/l	TM176				40.2		40.4	



CERTIFICATE OF ANALYSIS

Validated

SDG:	200919-50	Client Reference:	Sept GW 2020 Area 2 Part	Report Number:	570297
Location:	Newport landfill	Order Number:	700154310	Superseded Report:	570228

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.	GW09_35	GW12_38	GW06_14A												
#	ISO17025 accredited.	M	mCERTS accredited.	aq	Aqueous / settled sample.	diss.fit	Dissolved / filtered sample.	tot.unfilt	Total / unfiltered sample.	*	Subcontracted - refer to subcontractor report for accreditation status.	**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	(F)	Trigger breach confirmed			
1-348@	Sample deviation (see appendix)	Depth (m)	Sample Type	Date Sampled	Sampled Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference	Component	LOD/Units	Method	GW09_35	GW12_38	GW06_14A	Result	Result	Result
		0.00 - 0.00	Ground Water (GW)	17/09/2020		19/09/2020	200919-50	22859655		<1	TM176	<1	<10	<1	#	#	#	
		0.00 - 0.00	Ground Water (GW)	17/09/2020		19/09/2020	200919-50	22859718		<1	TM176	<1	<10	<1	#	#	#	
		0.00 - 0.00	Ground Water (GW)	17/09/2020		19/09/2020	200919-50	22859730		<1	TM176	<1	<10	<1	#	#	#	
1,2,4-Trichlorobenzene (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
1,2-Dichlorobenzene (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
1,3-Dichlorobenzene (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
1,4-Dichlorobenzene (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
2,4,5-Trichlorophenol (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
2,4,6-Trichlorophenol (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
2,4-Dichlorophenol (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
2,4-Dimethylphenol (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
2,4-Dinitrotoluene (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
2,6-Dinitrotoluene (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
2-Chloronaphthalene (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
2-Chlorophenol (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
2-Methylnaphthalene (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
2-Methylphenol (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
2-Nitroaniline (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
2-Nitrophenol (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
3-Nitroaniline (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
4-Bromophenylphenylether (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
4-Chloro-3-methylphenol (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
4-Chloroaniline (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
4-Chlorophenylphenylether (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
4-Methylphenol (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
4-Nitroaniline (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
4-Nitrophenol (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
Azobenzene (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
Acenaphthylene (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
Acenaphthene (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
Anthracene (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
bis(2-Chloroethyl)ether (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
bis(2-Chloroethoxy)methane (aq)	<1	TM176	<1	#	<10	#	<1	#	#									
bis(2-Ethylhexyl) phthalate (aq)	<2	TM176	<2	#	<20	#	<2	#	#									
Butylbenzyl phthalate (aq)	<1	TM176	<1	#	<10	#	<1	#	#									



CERTIFICATE OF ANALYSIS

Validated

SDG:	200919-50	Client Reference:	Sept GW 2020 Area 2 Part	Report Number:	570297
Location:	Newport landfill	Order Number:	700154310	Superseded Report:	570228

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.	GW09_35	GW12_38	GW06_14A			
# ISO17025 accredited.									
M mCERTS accredited.									
aq Aqueous / settled sample.									
dis.filt Dissolved / filtered sample.									
tot.unfilt Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F) Trigger breach confirmed									
1-3*5@ Sample deviation (see appendix)									
Depth (m)			0.00 - 0.00	0.00 - 0.00	0.00 - 0.00				
Sample Type			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)				
Date Sampled			17/09/2020	17/09/2020	17/09/2020				
Sampled Time			.	.	.				
Date Received			19/09/2020	19/09/2020	19/09/2020				
SDG Ref			200919-50	200919-50	200919-50				
Lab Sample No.(s)			22859655	22859718	22859730				
AGS Reference									
Component	LOD/Units	Method							
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Carbazole (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Chrysene (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Dibenzofuran (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	2.3 #	<10 #	<1 #				
Diethyl phthalate (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Dimethyl phthalate (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<5 #	<50 #	<5 #				
Fluoranthene (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Fluorene (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Hexachlorobenzene (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Pentachlorophenol (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Phenol (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Hexachloroethane (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Nitrobenzene (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Naphthalene (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Isophorone (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Phenanthrene (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
Pyrene (aq)	<1 µg/l	TM176	<1 #	<10 #	<1 #				
SVOC TIC (aq)		TM176	Not Detected	Not Detected	Not Detected				
Total SVOC TIC	<10 µg/l	TM176	<10	<100	<10				



CERTIFICATE OF ANALYSIS

Validated

SDG:	200919-50	Client Reference:	Sept GW 2020 Area 2 Part	Report Number:	570297
Location:	Newport landfill	Order Number:	700154310	Superseded Report:	570228

VOC MS (W)

Results Legend			Customer Sample Ref.		GW03_02	GW03_05	GW06_13	GW06_36	GW06_37	GW07_07
#	ISO17025 accredited.		Depth (m)		0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
M	mCERTS accredited.		Sample Type		Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
aq	Aqueous / settled sample.		Date Sampled		17/09/2020	17/09/2020	17/09/2020	17/09/2020	17/09/2020	17/09/2020
diss.filt	Dissolved / filtered sample.		Sampled Time							
tot.unfilt	Total / unfiltered sample.		Date Received		19/09/2020	19/09/2020	19/09/2020	19/09/2020	19/09/2020	19/09/2020
*	Subcontracted - refer to subcontractor report for accreditation status.		SDG Ref		200919-50	200919-50	200919-50	200919-50	200919-50	200919-50
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		Lab Sample No.(s)		22859774	22859748	22859705	22859673	22859688	22859765
(F)	Trigger breach confirmed		AGS Reference							
1-3+@	Sample deviation (see appendix)									
Component	LOD/Units	Method								
Dibromofluoromethane**	%	TM208	119	119	117	119	117	119	117	119
Toluene-d8**	%	TM208	94.7	95.7	95.1	95.2	95.5	95.5	95.5	95.5
4-Bromofluorobenzene**	%	TM208	93.9	92.4	92.4	92.5	95	92.6	92.6	92.6
Dichlorodifluoromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Chloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vinyl chloride	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Bromomethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Chloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Trichlorofluoromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Carbon disulphide	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Dichloromethane	<3 µg/l	TM208	<3 #	<3 #	<3 #	<3 #	<3 #	<3 #	<3 #	<3 #
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1-Dichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,2-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Bromochloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Chloroform	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1,1-Trichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Carbontetrachloride	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Benzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Trichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Dibromomethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Bromodichloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Toluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1,2-Trichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #



CERTIFICATE OF ANALYSIS

Validated

SDG:	200919-50	Client Reference:	Sept GW 2020 Area 2 Part	Report Number:	570297
Location:	Newport landfill	Order Number:	700154310	Superseded Report:	570228

VOC MS (W)

Results Legend			Customer Sample Ref.	GW03_02	GW03_05	GW06_13	GW06_36	GW06_37	GW07_07
# ISO17825 accredited. M mCERTS accredited. sq Aqueous / settled sample. disc.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-3&@ Sample deviation (see appendix)	Depth (m)	Sample Type	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
	Date Sampled	Ground Water (GW)	17/09/2020	17/09/2020	17/09/2020	17/09/2020	17/09/2020	17/09/2020	17/09/2020
	Sampled Time	Ground Water (GW)	.	.	.	.	.	.	.
	Date Received	Ground Water (GW)	19/09/2020	19/09/2020	19/09/2020	19/09/2020	19/09/2020	19/09/2020	19/09/2020
	SDG Ref	Ground Water (GW)	200919-50	200919-50	200919-50	200919-50	200919-50	200919-50	200919-50
	Lab Sample No.(s)	Ground Water (GW)	22859774	22859748	22859705	22859673	22859688	22859765	22859765
	AGS Reference	Ground Water (GW)							
Component	LOD/Units	Method							
1,3-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Tetrachloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Dibromochloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dibromoethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Chlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Ethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
m,p-Xylene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
o-Xylene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Styrene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Bromoform	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Isopropylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1,1,2,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2,3-Trichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Bromobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Propylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,3,5-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
tert-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2,4-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
sec-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-iso-Propyltoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,3-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,4-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
n-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2,4-Trichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Hexachlorobutadiene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Naphthalene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #



CERTIFICATE OF ANALYSIS

Validated

SDG:	200919-50	Client Reference:	Sept GW 2020 Area 2 Part	Report Number:	570297
Location:	Newport landfill	Order Number:	700154310	Superseded Report:	570228

VOC MS (W)

Results Legend		Customer Sample Ref.	GW09_35	GW12_38	GW06_14A			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00			
M	mCERTS accredited.		Ground Water (GW)	Ground Water (GW)	Ground Water (GW)			
aq	Aqueous / settled sample.		17/09/2020	17/09/2020	17/09/2020			
diss.fit	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.		19/09/2020	19/09/2020	19/09/2020			
*	Subcontracted - refer to subcontractor report for accreditation status.		200919-50	200919-50	200919-50			
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		22859655	22859718	22859730			
(F)	Trigger breach confirmed							
1-348@	Sample deviation (see appendix)							
Component	LOD/Units		Method					
Dibromofluoromethane**	%	TM208	117	117	113			
Toluene-d8**	%	TM208	94.9	94.9	95.6			
4-Bromofluorobenzene**	%	TM208	95.1	94.4	92			
Dichlorodifluoromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #			
Chloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #			
Vinyl chloride	<1 µg/l	TM208	<1 #	<1 #	<1 #			
Bromomethane	<1 µg/l	TM208	<1 #	<1 #	<1 #			
Chloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #			
Trichlorofluoromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #			
1,1-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #			
Carbon disulphide	<1 µg/l	TM208	<1 #	<1 #	<1 #			
Dichloromethane	<3 µg/l	TM208	<3 #	<3 #	<3 #			
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1 #	<1 #	<1 #			
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #			
1,1-Dichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #			
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #			
2,2-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #			
Bromochloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #			
Chloroform	<1 µg/l	TM208	<1 #	<1 #	<1 #			
1,1,1-Trichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #			
1,1-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #	<1 #			
Carbontetrachloride	<1 µg/l	TM208	<1 #	<1 #	<1 #			
1,2-Dichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #			
Benzene	<1 µg/l	TM208	<1 #	<1 #	<1 #			
Trichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #			
1,2-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #			
Dibromomethane	<1 µg/l	TM208	<1 #	<1 #	<1 #			
Bromodichloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #			
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #	<1 #			
Toluene	<1 µg/l	TM208	<1 #	<1 #	<1 #			
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #	<1 #			
1,1,2-Trichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #			



CERTIFICATE OF ANALYSIS

Validated

SDG: 200919-50	Client Reference: Sept GW 2020 Area 2 Part	Report Number: 570297
Location: Newport landfill	Order Number: 700154310	Superseded Report: 570228

VOC MS (W)

Results Legend			Customer Sample Ref.	GW09_35	GW12_38	GW06_14A			
# ISO17025 accredited. M mCERTS accredited. sq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-3&@ Sample deviation (see appendix)	Customer Sample Ref.	Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00				
		Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)				
		Date Sampled	17/09/2020	17/09/2020	17/09/2020				
		Sampled Time	.	.	.				
		Date Received	19/09/2020	19/09/2020	19/09/2020				
		SDG Ref	200919-50	200919-50	200919-50				
		Lab Sample No.(s)	22859655	22859718	22859730				
		AGS Reference							
Component	LOD/Units	Method							
1,3-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #				
Tetrachloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
Dibromochloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #				
1,2-Dibromoethane	<1 µg/l	TM208	<1 #	<1 #	<1 #				
Chlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #				
Ethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
m,p-Xylene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
o-Xylene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
Styrene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
Bromoform	<1 µg/l	TM208	<1 #	<1 #	<1 #				
Isopropylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #				
1,2,3-Trichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #				
Bromobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
Propylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
2-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
1,3,5-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
4-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
tert-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
1,2,4-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
sec-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
4-iso-Propyltoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
1,3-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
1,4-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
n-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
1,2-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #				
1,2,4-Trichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
Hexachlorobutadiene	<1 µg/l	TM208	<1 #	<1 #	<1 #				
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1 #	<1 #	<1 #				
Naphthalene	<1 µg/l	TM208	<1 #	<1 #	<1 #				



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Validated

SDG:	200919-50	Client Reference:	Sept GW 2020 Area 2 Part	Report Number:	570297
Location:	Newport landfill	Order Number:	700154310	Superseded Report:	570228

Table of Results - Appendix

Method No	Reference	Description
Calculation		
TM043	Method 2320B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part109 1984	Determination of alkalinity in aqueous samples
TM045	MEWAM BOD5 2nd Ed.HMSO 1988 / Method 5210B, AWWA/APHA, 20th Ed., 1999; SCA Blue Book 130	Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids
TM090	Method 5310, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 415.1 & 9060	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM099	BS 2690: Part 7:1968 / BS 6068: Part2.11:1984	Determination of Ammonium in Water Samples using the Kone Analyser
TM101	Method 4500B & C, AWWA/APHA, 20th Ed., 1999	Determination of Sulphide in soil and water samples using the Kone Analyser
TM107	ISO 6060-1989	Determination of Chemical Oxygen Demand using COD Dr Lange Kit
TM120	Method 2510B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part 9:1970	Determination of Electrical Conductivity using a Conductivity Meter
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM172	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	EPH in Waters
TM176	EPA 8270D Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of SVOCs in Water by GCMS
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM227	Standard methods for the examination of waters and wastewaters 20th Edition, AWWA/APHA Method 4500.	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate
TM256	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4.	Determination of pH in Water and Leachate using the GLpH pH Meter
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC
TM328		
TM343	EPA 8270D - Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of Selected Pesticides (Suite I) in Liquids by GCMS
TM344	EPA 8270D – Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of selected pesticides (Suite II) by GCMS
TM345	EPA 8270D – Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of selected pesticides (Suite III) by GCMS

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).



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SDG:	200919-50	Client Reference:	Sept GW 2020 Area 2 Part	Report Number:	570297
Location:	Newport landfill	Order Number:	700154310	Superseded Report:	570228

Test Completion Dates

	22859774	22859748	22859705	22859673	22859688	22859765	22859655	22859718	22859730
Lab Sample No(s)	GW03_02	GW03_05	GW06_13	GW06_36	GW06_37	GW07_07	GW09_35	GW12_38	GW06_14A
Customer Sample Ref.									
AGS Ref.									
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Alkalinity as CaCO3	24-Sep-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020
Alkalinity Filtered as CaCO3			24-Sep-2020	24-Sep-2020	24-Sep-2020		24-Sep-2020	24-Sep-2020	24-Sep-2020
Ammoniacal Nitrogen	24-Sep-2020	24-Sep-2020	24-Sep-2020	25-Sep-2020	24-Sep-2020	25-Sep-2020	24-Sep-2020	24-Sep-2020	25-Sep-2020
Anions by Kone (w)	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020
BOD True Total			24-Sep-2020	24-Sep-2020	24-Sep-2020		24-Sep-2020	24-Sep-2020	24-Sep-2020
COD Unfiltered	25-Sep-2020	25-Sep-2020	21-Sep-2020	21-Sep-2020	21-Sep-2020	25-Sep-2020	21-Sep-2020	21-Sep-2020	21-Sep-2020
Conductivity (at 20 deg.C)	24-Sep-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020
Cyanide Comp/Free/Total/Thiocyanate	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020
Dissolved Metals by ICP-MS	24-Sep-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020	07-Oct-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020
Dissolved Organic/Inorganic Carbon			27-Sep-2020	27-Sep-2020	28-Sep-2020		27-Sep-2020	27-Sep-2020	28-Sep-2020
EPH (DRO) (C10-C40) Aqueous (W)	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020
Ionic Balance			25-Sep-2020	25-Sep-2020	07-Oct-2020		25-Sep-2020	25-Sep-2020	25-Sep-2020
Mercury Dissolved	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020
Nitrite by Kone (w)			24-Sep-2020	24-Sep-2020	24-Sep-2020		24-Sep-2020	24-Sep-2020	24-Sep-2020
Organotins in Aqueous Samples	28-Sep-2020	28-Sep-2020	28-Sep-2020	28-Sep-2020	28-Sep-2020	28-Sep-2020	28-Sep-2020	28-Sep-2020	28-Sep-2020
Pesticides (Suite I) by GCMS	28-Sep-2020	28-Sep-2020	28-Sep-2020	28-Sep-2020	28-Sep-2020	28-Sep-2020	28-Sep-2020	28-Sep-2020	28-Sep-2020
Pesticides (Suite II) by GCMS	29-Sep-2020	28-Sep-2020	28-Sep-2020	28-Sep-2020	28-Sep-2020	28-Sep-2020	28-Sep-2020	29-Sep-2020	28-Sep-2020
Pesticides (Suite III) by GCMS	25-Sep-2020	25-Sep-2020	25-Sep-2020	28-Sep-2020	28-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020
pH Value	24-Sep-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020	24-Sep-2020
Phenols by HPLC (W)	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020
Phosphate by Kone (w)			24-Sep-2020	24-Sep-2020	24-Sep-2020		24-Sep-2020	24-Sep-2020	24-Sep-2020
Sulphide			25-Sep-2020	25-Sep-2020	25-Sep-2020		25-Sep-2020	25-Sep-2020	25-Sep-2020
SVOC MS (W) - Aqueous	29-Sep-2020	29-Sep-2020	29-Sep-2020	29-Sep-2020	29-Sep-2020	29-Sep-2020	29-Sep-2020	29-Sep-2020	29-Sep-2020
Total Organic and Inorganic Carbon	26-Sep-2020	27-Sep-2020							
VOC MS (W)	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020	25-Sep-2020



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SDG: 200919-50	Client Reference: Sept GW 2020 Area 2 Part	Report Number: 570297
Location: Newport landfill	Order Number: 700154310	Superseded Report: 570228

Chromatogram

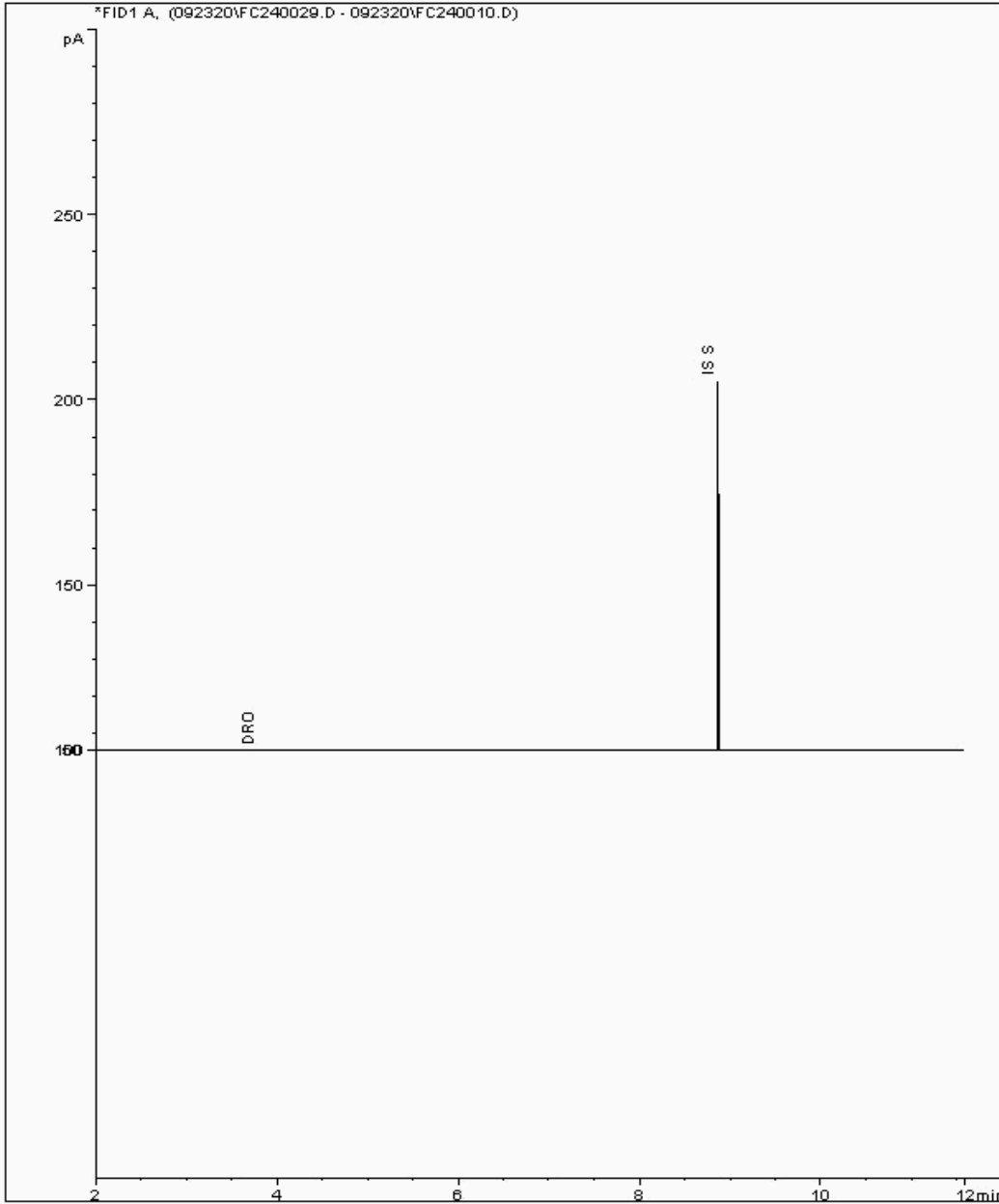
Analysis: EPH (DRO) (C10-C40) Aqueous (W)

Sample No : 22880644
Sample ID : GW06_13

Depth : 0.00 - 0.00

EPH Range Organics (C10 - C40)

Sample Identity: 21473349-
Date Acquired : 24/09/2020 13:40:59 PM
Units : ppm





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SDG: 200919-50	Client Reference: Sept GW 2020 Area 2 Part	Report Number: 570297
Location: Newport landfill	Order Number: 700154310	Superseded Report: 570228

Chromatogram

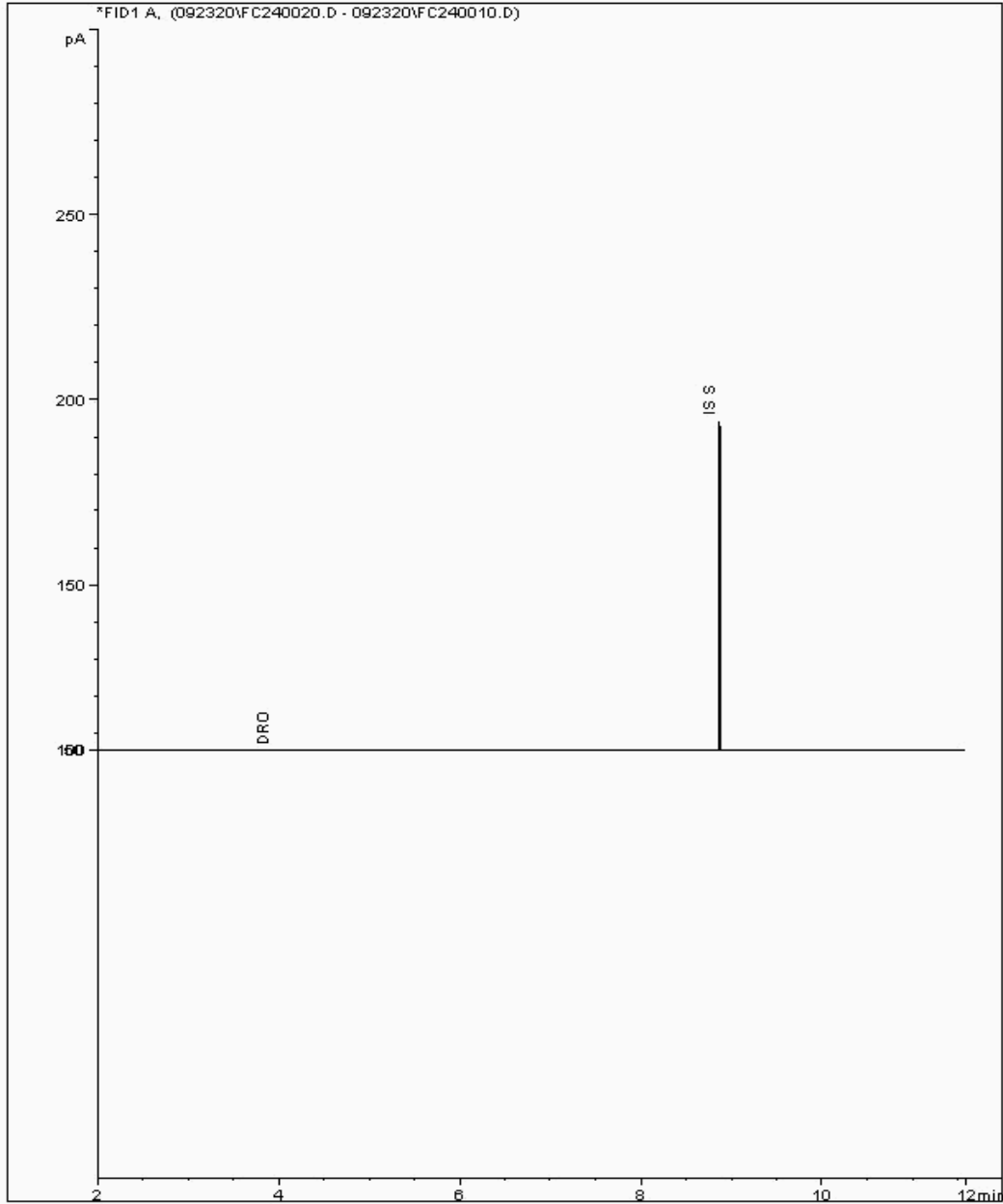
Analysis: EPH (DRO) (C10-C40) Aqueous (W)

Sample No : 22880676
Sample ID : GW12_38

Depth : 0.00 - 0.00

EPH Range Organics (C10 - C40)

Sample Identity: 21473373-
Date Acquired : 24/09/2020 10:01:35 PM
Units : ppm





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Validated

SDG: 200919-50 Client Reference: Sept GW 2020 Area 2 Part Report Number: 570297
Location: Newport landfill Order Number: 700154310 Superseded Report: 570228

Chromatogram

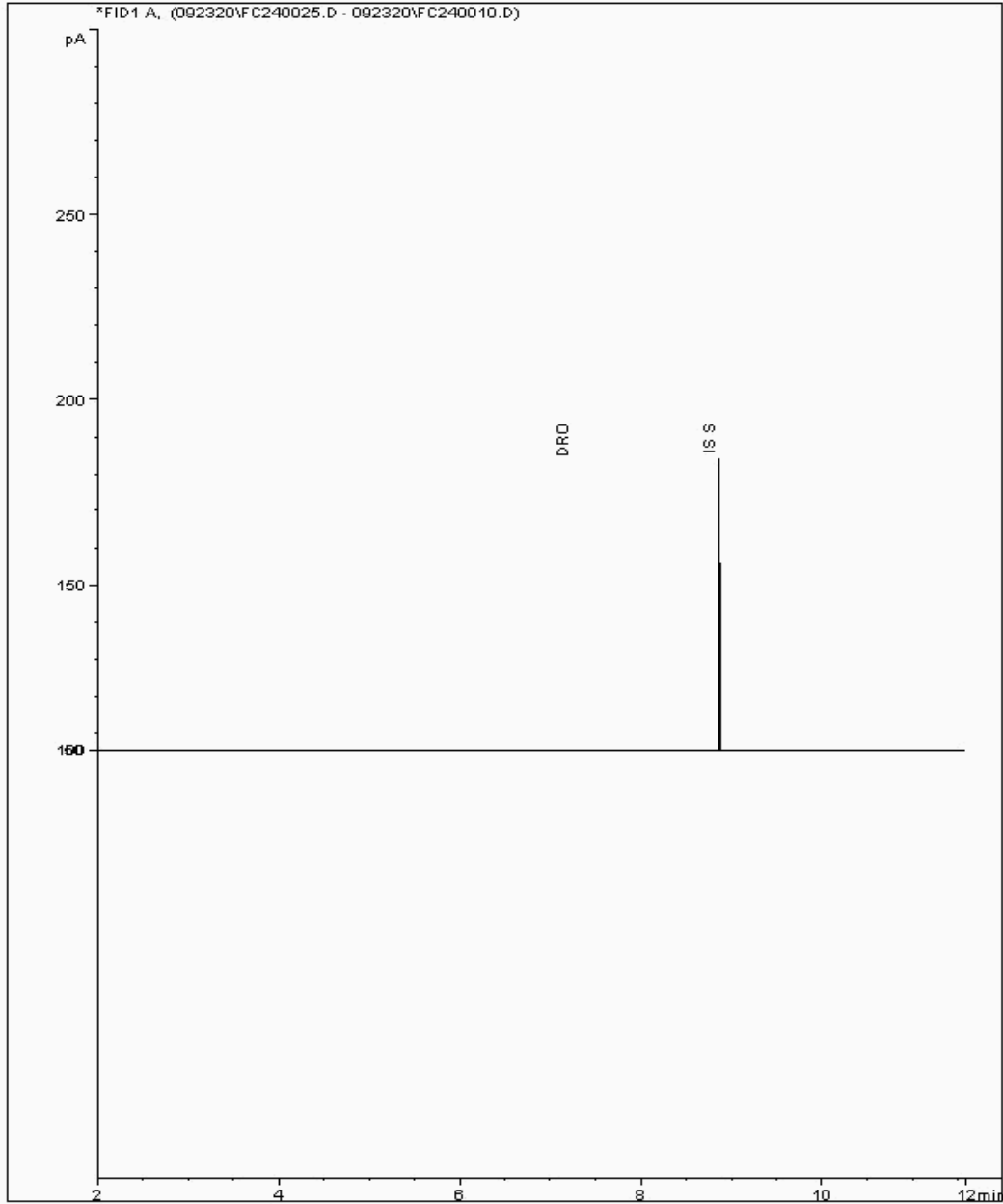
Analysis: EPH (DRO) (C10-C40) Aqueous (W)

Sample No : 22880713
Sample ID : GW06_14A

Depth : 0.00 - 0.00

EPH Range Organics (C10 - C40)

Sample Identity: 21473397-
Date Acquired : 24/09/2020 12:03:27 PM
Units : ppm





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Location: Newport landfill Order Number: 700154310 Superseded Report: 570228

Chromatogram

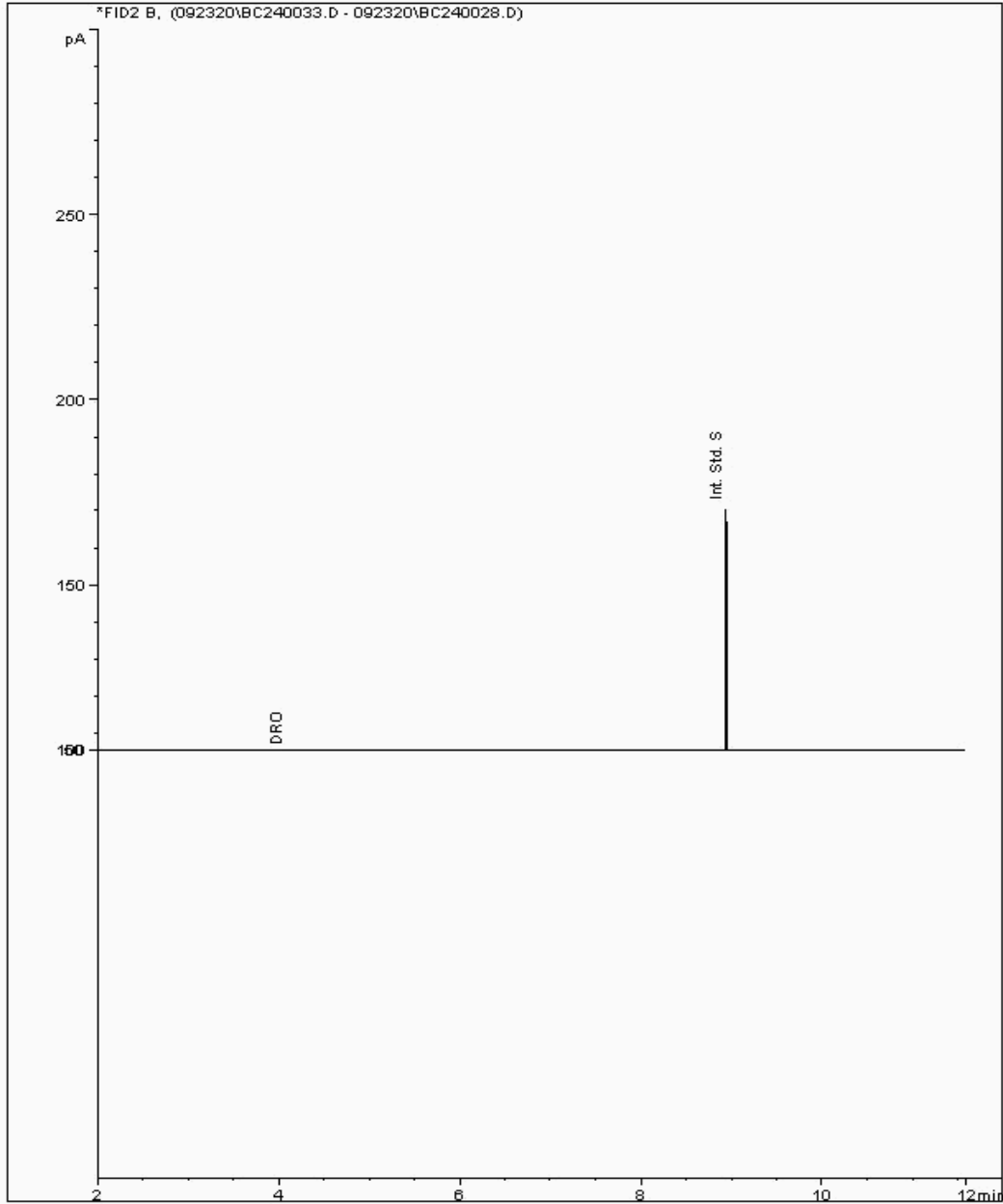
Analysis: EPH (DRO) (C10-C40) Aqueous (W)

Sample No : 22883752
Sample ID : GW09_35

Depth : 0.00 - 0.00

EPH Range Organics (C10 - C40)

Sample Identity: 21473277-
Date Acquired : 24/09/2020 15:18:52 PM
Units : mg/l





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SDG: 200919-50	Client Reference: Sept GW 2020 Area 2 Part	Report Number: 570297
Location: Newport landfill	Order Number: 700154310	Superseded Report: 570228

Chromatogram

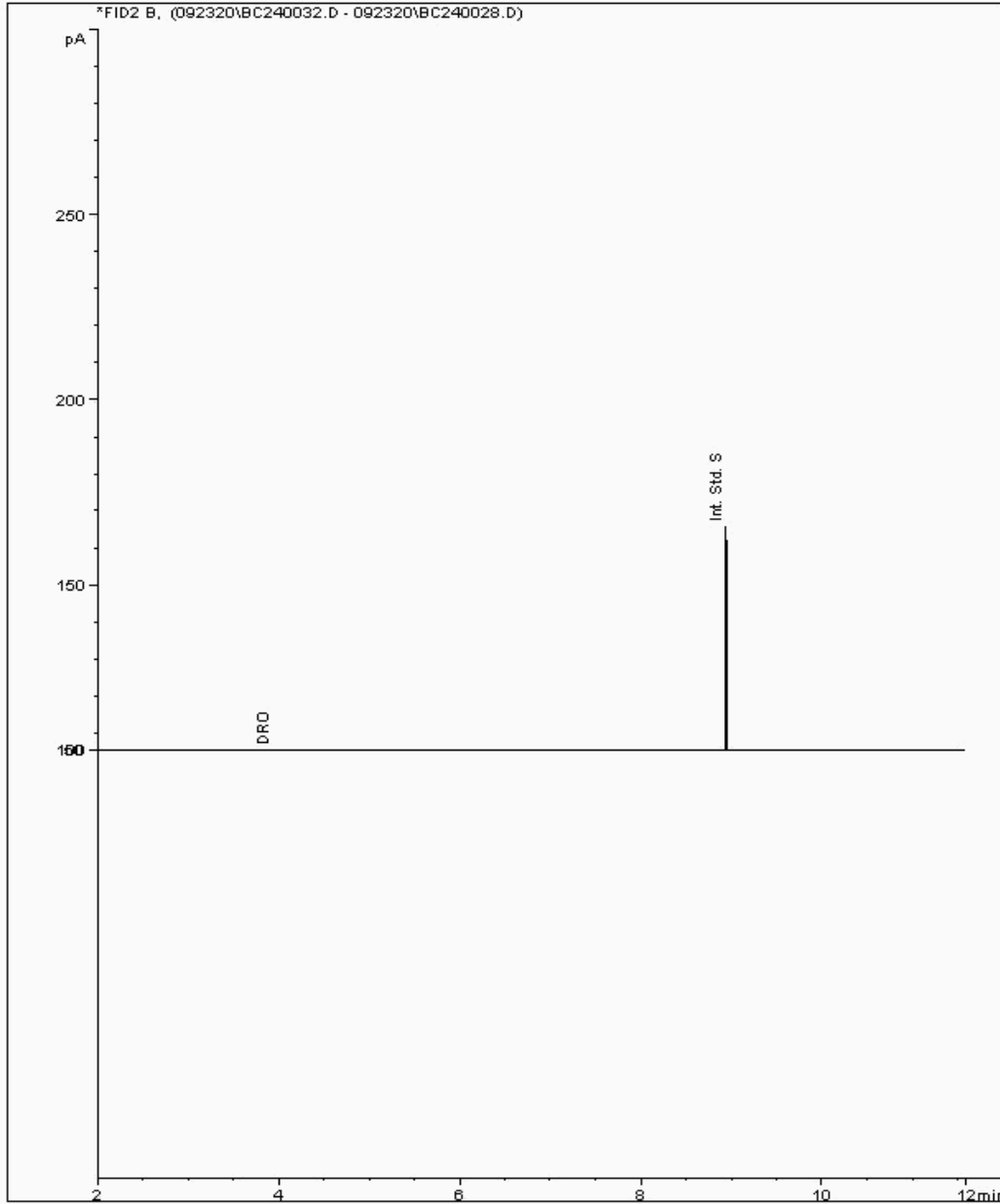
Analysis: EPH (DRO) (C10-C40) Aqueous (W)

Sample No : 22884153
Sample ID : GW07_07

Depth : 0.00 - 0.00

EPH Range Organics (C10 - C40)

Sample Identity: 21473438-
Date Acquired : 24/09/2020 14:54:28 PM
Units : mg/l





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SDG: 200919-50	Client Reference: Sept GW 2020 Area 2 Part	Report Number: 570297
Location: Newport landfill	Order Number: 700154310	Superseded Report: 570228

Chromatogram

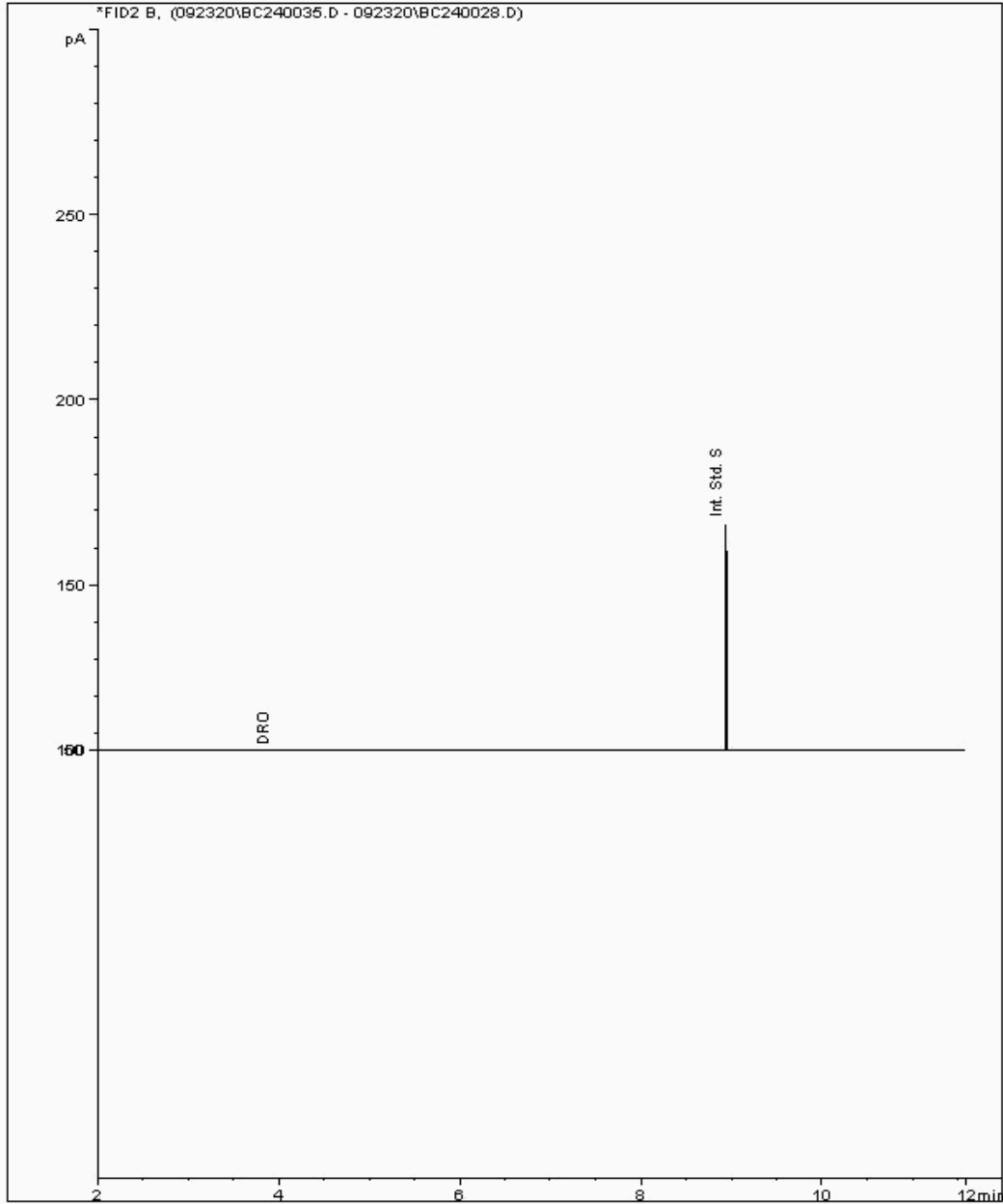
Analysis: EPH (DRO) (C10-C40) Aqueous (W)

Sample No : 22884189
Sample ID : GW03_02

Depth : 0.00 - 0.00

EPH Range Organics (C10 - C40)

Sample Identity: 21473457-
Date Acquired : 24/09/2020 16:07:50 PM
Units : mg/l





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SDG: 200919-50	Client Reference: Sept GW 2020 Area 2 Part	Report Number: 570297
Location: Newport landfill	Order Number: 700154310	Superseded Report: 570228

Chromatogram

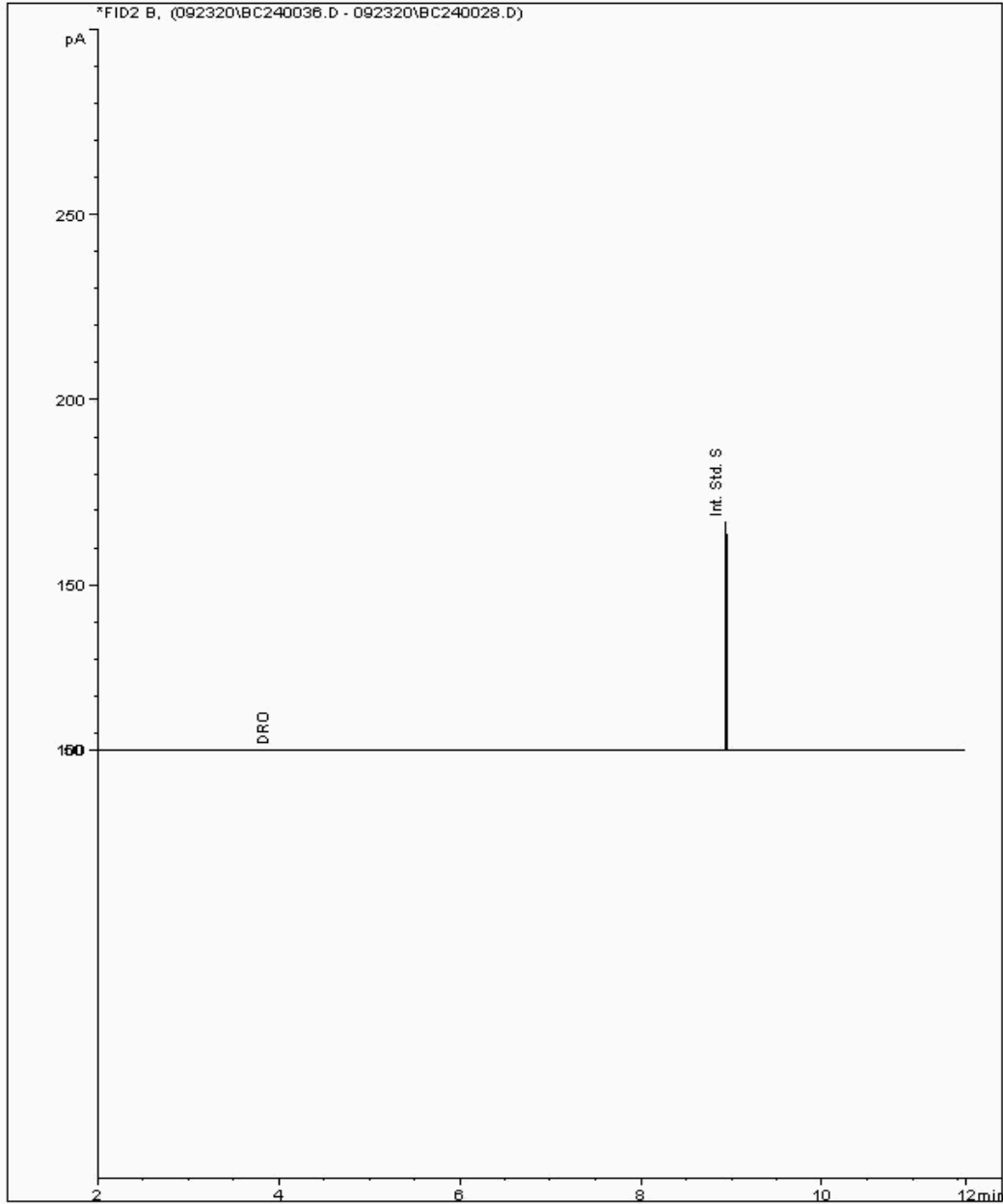
Analysis: EPH (DRO) (C10-C40) Aqueous (W)

Sample No : 22884223
Sample ID : GW03_05

Depth : 0.00 - 0.00

EPH Range Organics (C10 - C40)

Sample Identity: 21473419-
Date Acquired : 24/09/2020 16:32:11 PM
Units : mg/l





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Validated

SDG: 200919-50	Client Reference: Sept GW 2020 Area 2 Part	Report Number: 570297
Location: Newport landfill	Order Number: 700154310	Superseded Report: 570228

Chromatogram

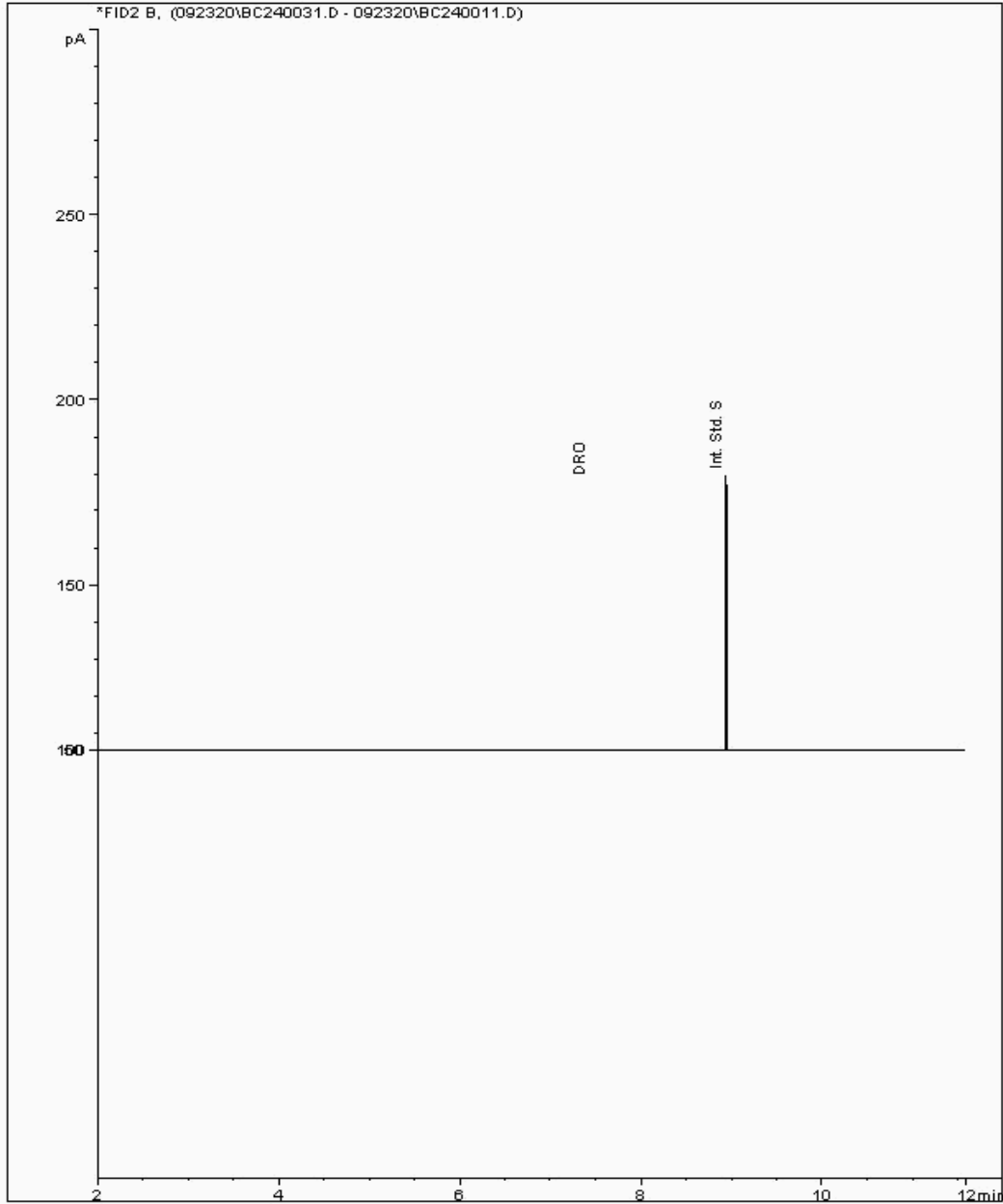
Analysis: EPH (DRO) (C10-C40) Aqueous (W)

Sample No : 22884534
Sample ID : GW06_36

Depth : 0.00 - 0.00

EPH Range Organics (C10 - C40)

Sample Identity: 21473301-
Date Acquired : 24/09/2020 14:29:49 PM
Units : mg/l





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SDG: 200919-50	Client Reference: Sept GW 2020 Area 2 Part	Report Number: 570297
Location: Newport landfill	Order Number: 700154310	Superseded Report: 570228

Chromatogram

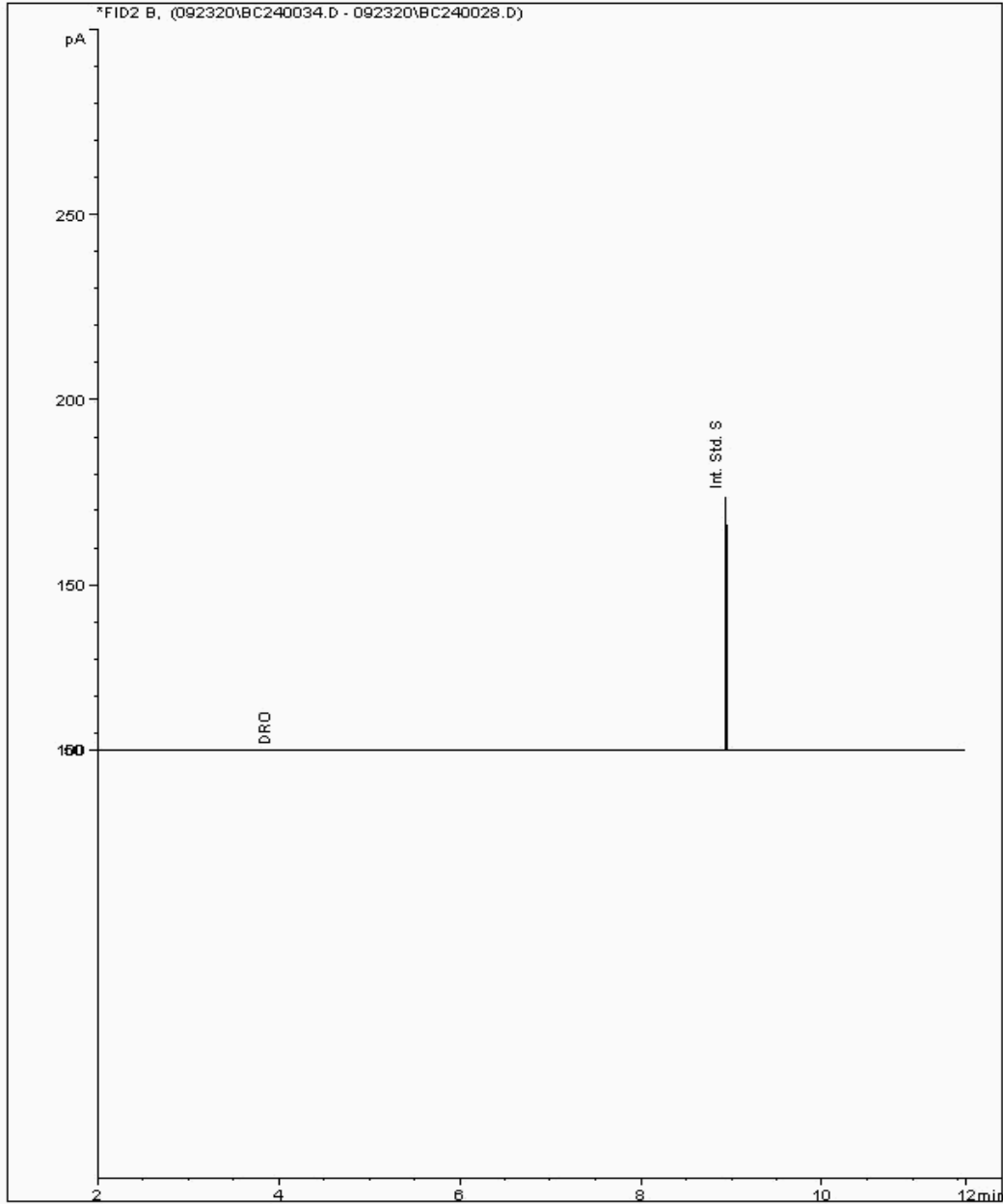
Analysis: EPH (DRO) (C10-C40) Aqueous (W)

Sample No : 22884564
Sample ID : GW06_37

Depth : 0.00 - 0.00

EPH Range Organics (C10 - C40)

Sample Identity: 21473325-
Date Acquired : 24/09/2020 15:43:14 PM
Units : mg/l





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Location: Newport landfill	Order Number: 700154310	Superseded Report: 570228

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

18. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples

19. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung. Standing Committee of Analysts, *The Quantification of Asbestos in Soil (2017)*.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.