



Newport City Council
Civic Centre
Newport
NP20 4UR

Attention: Meirion Humphreys

CERTIFICATE OF ANALYSIS

Date: 01 October 2015
Customer: H_NCC_NPT
Sample Delivery Group (SDG): 150924-44
Your Reference:
Location: Docksway Landfill Site
Report No: 331938

We received 7 samples on Thursday September 24, 2015 and 7 of these samples were scheduled for analysis which was completed on Thursday October 01, 2015. 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.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:

Sonia McWhan
Operations Manager





SDG: 150924-44
Job: H_NCC_NPT-3
Client Reference:

Location: Docksway Landfill Site
Customer: Newport City Council
Attention: Meirion Humphreys

Order Number: 700077119
Report Number: 331938
Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
12117582	GW06/34			23/09/2015
12117576	GW06/36			23/09/2015
12117579	GW09/31			23/09/2015
12117583	GW09/32			23/09/2015
12117581	GW09/35			23/09/2015
12117574	GW12/30			23/09/2015
12117575	GW12/33			23/09/2015

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



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Order Number: 700077119
 Report Number: 331938
 Superseded Report:

LIQUID Results Legend X Test N No Determination Possible	Lab Sample No(s)		12117574	12117575																							
	Customer Sample Reference		GW12/30	GW12/33																							
	AGS Reference																										
	Depth (m)																										
	Container		1000ml glass bottle	1000ml glass bottle	Vial (ALE297)	NaOH (ALE245)	HNO3 Filtered (ALE245)	H2SO4 (ALE244)	Disolved Metals Pr	250ml BOD (ALE21)	1000ml glass bottle	Vial (ALE297)	NaOH (ALE245)	HNO3 Filtered (ALE245)	H2SO4 (ALE244)	Disolved Metals Pr	250ml BOD (ALE21)	1000ml glass bottle	Vial (ALE297)	NaOH (ALE245)	HNO3 Filtered (ALE245)	H2SO4 (ALE244)	Disolved Metals Pr	250ml BOD (ALE21)	1000ml glass bottle		
Alkalinity as CaCO3	All	NDPs: 0 Tests: 7	X							X																	
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 7																									
Anions by Kone (w)	All	NDPs: 0 Tests: 7	X																								
BOD True Total	All	NDPs: 0 Tests: 7																									
COD Unfiltered	All	NDPs: 0 Tests: 7																									
Conductivity (at 20 deg.C)	All	NDPs: 0 Tests: 7	X																								
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 7																									
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 7																									
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 7	X																								
EPH (DRO) (C10-C40) Aqueous (W)	All	NDPs: 0 Tests: 7	X																								
Ionic Balance	All	NDPs: 0 Tests: 7	X																								
Mercury Dissolved	All	NDPs: 0 Tests: 7																									
Metals by iCap-OES Dissolved (W)	All	NDPs: 0 Tests: 7																									
Nitrite by Kone (w)	All	NDPs: 0 Tests: 7																									
Organochlorine Pesticides (Aq)	All	NDPs: 0 Tests: 7	X																								



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LIQUID Results Legend Test No Determination Possible	Lab Sample No(s)	12117574	12117575											
	Customer Sample Reference	GW12/30	GW12/33											
	AGS Reference													
	Depth (m)													
	Container	1000ml glass bottle 1lplastic (ALE221) 250ml BOD (ALE21) Dissolved Metals Pr H2SO4 (ALE244) HNO3 Filtered (ALE NaOH (ALE245) Vial (ALE297) 1000ml glass bottle 1lplastic (ALE221) 250ml BOD (ALE21) Dissolved Metals Pr H2SO4 (ALE244) HNO3 Filtered (ALE												
Organophosphorus Pesticides (Aq)	All	NDPs: 0 Tests: 7												
Organotins in Aqueous Samples	All	NDPs: 0 Tests: 7												
pH Value	All	NDPs: 0 Tests: 7												
Phenols by HPLC (W)	All	NDPs: 0 Tests: 7												
Sulphide	All	NDPs: 0 Tests: 7												
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 7												
VOC MS (W)	All	NDPs: 0 Tests: 7												



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Results Legend		Customer Sample R	GW06/34	GW06/36	GW09/31	GW09/32	GW09/35	GW12/30
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
M	mCERTS accredited.		23/09/2015	23/09/2015	23/09/2015	23/09/2015	23/09/2015	23/09/2015
aq	Aqueous / settled sample.		24/09/2015	24/09/2015	24/09/2015	24/09/2015	24/09/2015	24/09/2015
diss.filt	Dissolved / filtered sample.		150924-44	150924-44	150924-44	150924-44	150924-44	150924-44
tot.unfilt	Total / unfiltered sample.		12117582	12117576	12117579	12117583	12117581	12117574
*	Subcontracted test.							
**	% 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							
1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Ionic balance	% Diff	Calulation	27.1	-98.2	12.1	2.89	-8.1	-47.8
Alkalinity, Total as CaCO3	<2 mg/l	TM043	700	935	1330	1120	845	855
BOD, unfiltered	<1 mg/l	TM045	13.6	<1	<1	<1	<1	2.44
Carbon, Organic (diss.filt)	<3 mg/l	TM090	15.1	15.7	30.3	14	11.7	23.1
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	11.2	14.7	14.1	5.48	19.4	0.714
Sulphide	<0.01 mg/l	TM101	9.36	<0.01	0.0114	<0.01	<0.01	0.0207
COD, unfiltered	<7 mg/l	TM107	127	95.1	94.2	67.6	<70	148
Conductivity @ 20 deg.C	<0.005 mS/cm	TM120	1.94	9.79	5.31	4.43	10.2	2.91
Arsenic (diss.filt)	<0.12 µg/l	TM152	16.5	7.95	35	31.2	<0.12	305
Boron (diss.filt)	<9.4 µg/l	TM152	1060	1410	1420	1460	582	656
Cadmium (diss.filt)	<0.1 µg/l	TM152	<0.1	<0.1	<0.1	0.148	<0.1	<0.1
Chromium (diss.filt)	<0.22 µg/l	TM152	6.77	5.16	9.08	8.23	3.85	8.89
Copper (diss.filt)	<0.85 µg/l	TM152	<0.85	1.78	2.17	<0.85	2.25	7.88
Lead (diss.filt)	<0.02 µg/l	TM152	0.925	1.34	1.36	1.09	0.843	3.21
Manganese (diss.filt)	<0.04 µg/l	TM152	2280	353	1110	932	956	2750
Nickel (diss.filt)	<0.15 µg/l	TM152	3.59	3.4	3.27	1.99	18.2	7.54
Selenium (diss.filt)	<0.39 µg/l	TM152	48.3	16	<0.39	16.3	<0.39	7.65
Zinc (diss.filt)	<0.41 µg/l	TM152	29.6	15	29.9	21	26.4	36.8
EPH Range >C10 - C40 (aq)	<46 µg/l	TM172	<46	<46	<46	<46	<46	<46
Mercury (diss.filt)	<0.01 µg/l	TM183	<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	<0.05	<0.05	0.051
Sulphate	<2 mg/l	TM184	124	52.5	18.7	35.6	161	148
Chloride	<2 mg/l	TM184	263	3290	1260	1020	3450	573
Phosphate (ortho) as PO4	<0.05 mg/l	TM184	3.13	4.85	11	3.74	9.11	0.073
Nitrate as NO3	<0.3 mg/l	TM184	0.808	<0.3	<0.3	<0.3	<0.3	0.993
Total Oxidised Nitrogen as N	<0.1 mg/l	TM184	0.186	<0.1	<0.1	<0.1	<0.1	0.24
Cyanide, Total	<0.05 mg/l	TM227	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Calcium (diss.filt)	<0.012 mg/l	TM228	138	<0.012	69.3	67.1	213	129
Sodium (diss.filt)	<0.076 mg/l	TM228	598	<0.076	707	1010	1530	<0.076
Magnesium (diss.filt)	<0.036 mg/l	TM228	91.5	<0.036	85.1	69.7	234	67.6
Potassium (diss.filt)	<1 mg/l	TM228	34.7	<1	37.9	33.4	77.8	13.5
Iron (diss.filt)	<0.019 mg/l	TM228	10.1	<0.019	9.53	2.89	7.99	<0.019



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Report Number: 331938
Superseded Report:

Results Legend			Customer Sample R		GW06/34	GW06/36	GW09/31	GW09/32	GW09/35	GW12/30
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
M	mCERTS accredited.				23/09/2015	23/09/2015	23/09/2015	23/09/2015	23/09/2015	23/09/2015
aq	Aqueous / settled sample.				24/09/2015	24/09/2015	24/09/2015	24/09/2015	24/09/2015	24/09/2015
dis.filt	Dissolved / filtered sample.				150924-44	150924-44	150924-44	150924-44	150924-44	150924-44
tot.unfilt	Total / unfiltered sample.				12117582	12117576	12117579	12117583	12117581	12117574
*	Subcontracted test.									
**	% 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									
1-5&5@	Sample deviation (see appendix)									
Component	LOD/Units	Method								
Hardness, Total as CaCO3	<1 mg/l	TM228		722	<1	524	455	1500	601	
pH	<1 pH Units	TM256		8.07	8.15	8.37	8.05	8.06	7.88	
Phenols, Total Detected monohydric	<0.016 mg/l	TM259		<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	
1,3,5-Trichlorobenzene	<0.02 µg/l	TM314		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
1,2,4-Trichlorobenzene	<0.02 µg/l	TM314		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
1,2,3-Trichlorobenzene	<0.02 µg/l	TM314		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Hexachlorobutadiene	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Dichlobenil	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Etridiazole	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Chloroneb	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Tecnazene	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Propachlor	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Trifluralin	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
alpha-HCH	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Hexachlorobenzene	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
beta-HCH	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
gamma-HCH	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
delta-HCH	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Triallate	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Chlorothalonil	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Heptachlor	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Aldrin	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Isodrin	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Dacthal	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Heptachlor-exo-epoxide	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
alpha-Chlordane	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
2,4-DDE	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
alpha-Endosulphan	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
gamma-Chlordane	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
4,4-DDE	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Dieldrin	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
2,4-DDD	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	



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Location: Docksway Landfill Site
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Order Number: 700077119
Report Number: 331938
Superseded Report:

Results Legend			Customer Sample R	GW06/34	GW06/36	GW09/31	GW09/32	GW09/35	GW12/30
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
M	mCERTS accredited.			23/09/2015	23/09/2015	23/09/2015	23/09/2015	23/09/2015	23/09/2015
aq	Aqueous / settled sample.			24/09/2015	24/09/2015	24/09/2015	24/09/2015	24/09/2015	24/09/2015
dis.filt	Dissolved / filtered sample.			150924-44	150924-44	150924-44	150924-44	150924-44	150924-44
tot.unfilt	Total / unfiltered sample.			12117582	12117576	12117579	12117583	12117581	12117574
*	Subcontracted test.								
**	% 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								
1-5$	Sample deviation (see appendix)								
Component	LOD/Units	Method							
Endrin	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chlorobenzilate	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
beta-Endosulfan	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4,4-DDD	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2,4-DDT	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Endrin-Aldehyde	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4,4-DDT	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Endosulfan-sulfate	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methoxychlor	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
cis-Permethrin	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
trans-Permethrin	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cypermethrin	<0.02 µg/l	TM314		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Drins	<0.04 µg/l	TM314		<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
DDT	<0.02 µg/l	TM314		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Dichlorvos	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mevinphos	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Omethoate	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Demeton-s-methyl	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Disulfoton	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phorate	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dimethoate	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dioxation	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Propetamphos	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Simazine	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trietazine	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Atrazine	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Diazinon	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Propazine	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Terbufos	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyromazine	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chlorpyrifos-Methyl	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Parathion-Methyl	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01



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Results Legend		Customer Sample R		GW12/33				
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW/SW) 23/09/2015 24/09/2015 150924-44 12117575					
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
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**	% 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							
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1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units			Method				
Ionic balance	% Diff	Calulation	-2.51					
Alkalinity, Total as CaCO3	<2 mg/l	TM043	1040	#				
BOD, unfiltered	<1 mg/l	TM045	9.22	#				
Carbon, Organic (diss.filt)	<3 mg/l	TM090	25.3					
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	14.3	#				
Sulphide	<0.01 mg/l	TM101	<0.01	#				
COD, unfiltered	<7 mg/l	TM107	83.4	#				
Conductivity @ 20 deg.C	<0.005 mS/cm	TM120	3.52	#				
Arsenic (diss.filt)	<0.12 µg/l	TM152	313	#				
Boron (diss.filt)	<9.4 µg/l	TM152	1340	#				
Cadmium (diss.filt)	<0.1 µg/l	TM152	<0.1	#				
Chromium (diss.filt)	<0.22 µg/l	TM152	7.95	#				
Copper (diss.filt)	<0.85 µg/l	TM152	<0.85	#				
Lead (diss.filt)	<0.02 µg/l	TM152	0.986	#				
Manganese (diss.filt)	<0.04 µg/l	TM152	667	#				
Nickel (diss.filt)	<0.15 µg/l	TM152	1.86	#				
Selenium (diss.filt)	<0.39 µg/l	TM152	14	#				
Zinc (diss.filt)	<0.41 µg/l	TM152	13	#				
EPH Range >C10 - C40 (aq)	<46 µg/l	TM172	<46	#				
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01	#				
Nitrite as NO2	<0.05 mg/l	TM184	<0.05	#				
Sulphate	<2 mg/l	TM184	<2	#				
Chloride	<2 mg/l	TM184	768	#				
Phosphate (ortho) as PO4	<0.05 mg/l	TM184	0.061	#				
Nitrate as NO3	<0.3 mg/l	TM184	<0.3	#				
Total Oxidised Nitrogen as N	<0.1 mg/l	TM184	<0.1	#				
Cyanide, Total	<0.05 mg/l	TM227	<0.05	#				
Calcium (diss.filt)	<0.012 mg/l	TM228	112	#				
Sodium (diss.filt)	<0.076 mg/l	TM228	543	#				
Magnesium (diss.filt)	<0.036 mg/l	TM228	107	#				
Potassium (diss.filt)	<1 mg/l	TM228	40.6	#				
Iron (diss.filt)	<0.019 mg/l	TM228	12.8	#				



CERTIFICATE OF ANALYSIS

SDG: 150924-44
Job: H_NCC_NPT-3
Client Reference:

Location: Docksway Landfill Site
Customer: Newport City Council
Attention: Meirion Humphreys

Order Number: 700077119
Report Number: 331938
Superseded Report:

Results Legend		Customer Sample R	GW12/33			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW/SW) 23/09/2015 24/09/2015 150924-44 12117575			
M	mCERTS accredited.					
aq	Aqueous / settled sample.					
diss.filt	Dissolved / filtered sample.					
tot.unfilt	Total / unfiltered sample.					
*	Subcontracted test.					
**	% 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					
1-5&#@\$@	Sample deviation (see appendix)					
Component	LOD/Units			Method		
Hardness, Total as CaCO3	<1 mg/l	TM228	721	#		
pH	<1 pH Units	TM256	7.91	#		
Phenols, Total Detected monohydric	<0.016 mg/l	TM259	<0.016	#		
1,3,5-Trichlorobenzene	<0.02 µg/l	TM314	<0.02			
1,2,4-Trichlorobenzene	<0.02 µg/l	TM314	<0.02			
1,2,3-Trichlorobenzene	<0.02 µg/l	TM314	<0.02			
Hexachlorobutadiene	<0.01 µg/l	TM314	<0.01			
Dichlobenil	<0.01 µg/l	TM314	<0.01			
Etridiazole	<0.01 µg/l	TM314	<0.01			
Chloroneb	<0.01 µg/l	TM314	<0.01			
Tecnazene	<0.01 µg/l	TM314	<0.01			
Propachlor	<0.01 µg/l	TM314	<0.01			
Trifluralin	<0.01 µg/l	TM314	<0.01			
alpha-HCH	<0.01 µg/l	TM314	<0.01			
Hexachlorobenzene	<0.01 µg/l	TM314	<0.01			
beta-HCH	<0.01 µg/l	TM314	<0.01			
gamma-HCH	<0.01 µg/l	TM314	<0.01			
delta-HCH	<0.01 µg/l	TM314	<0.01			
Triallate	<0.01 µg/l	TM314	<0.01			
Chlorothalonil	<0.01 µg/l	TM314	<0.01			
Heptachlor	<0.01 µg/l	TM314	<0.01			
Aldrin	<0.01 µg/l	TM314	<0.01			
Isodrin	<0.01 µg/l	TM314	<0.01			
Dacthal	<0.01 µg/l	TM314	<0.01			
Heptachlor-exo-epoxide	<0.01 µg/l	TM314	<0.01			
alpha-Chlordane	<0.01 µg/l	TM314	<0.01			
2,4-DDE	<0.01 µg/l	TM314	<0.01			
alpha-Endosulphan	<0.01 µg/l	TM314	<0.01			
gamma-Chlordane	<0.01 µg/l	TM314	<0.01			
4,4-DDE	<0.01 µg/l	TM314	<0.01			
Dieldrin	<0.01 µg/l	TM314	<0.01			
2,4-DDD	<0.01 µg/l	TM314	<0.01			



SDG: 150924-44
Job: H_NCC_NPT-3
Client Reference:

Location: Docksway Landfill Site
Customer: Newport City Council
Attention: Meirion Humphreys

Order Number: 700077119
Report Number: 331938
Superseded Report:

Results Legend		Customer Sample R	GW12/33					
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW/SW) 23/09/2015 24/09/2015 150924-44 12117575					
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
dis.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% 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							
1-5&	Sample deviation (see appendix)							
Component	LOD/Units			Method				
Endrin	<0.01 µg/l	TM314	<0.01					
Chlorobenzilate	<0.01 µg/l	TM314	<0.01					
beta-Endosulfan	<0.01 µg/l	TM314	<0.01					
4,4-DDD	<0.01 µg/l	TM314	<0.01					
2,4-DDT	<0.01 µg/l	TM314	<0.01					
Endrin-Aldehyde	<0.01 µg/l	TM314	<0.01					
4,4-DDT	<0.01 µg/l	TM314	<0.01					
Endosulfan-sulfate	<0.01 µg/l	TM314	<0.01					
Methoxychlor	<0.01 µg/l	TM314	<0.01					
cis-Permethrin	<0.01 µg/l	TM314	<0.01					
trans-Permethrin	<0.01 µg/l	TM314	<0.01					
Cypermethrin	<0.02 µg/l	TM314	<0.02					
Drins	<0.04 µg/l	TM314	<0.04					
DDT	<0.02 µg/l	TM314	<0.02					
Dichlorvos	<0.01 µg/l	TM315	<0.01					
Mevinphos	<0.01 µg/l	TM315	<0.01					
Omethoate	<0.01 µg/l	TM315	<0.01					
Demeton-s-methyl	<0.01 µg/l	TM315	<0.01					
Disulfoton	<0.01 µg/l	TM315	<0.01					
Phorate	<0.01 µg/l	TM315	<0.01					
Dimethoate	<0.01 µg/l	TM315	<0.01					
Dioxation	<0.01 µg/l	TM315	<0.01					
Propetamphos	<0.01 µg/l	TM315	<0.01					
Simazine	<0.01 µg/l	TM315	<0.01					
Trietazine	<0.01 µg/l	TM315	<0.01					
Atrazine	<0.01 µg/l	TM315	<0.01					
Diazinon	<0.01 µg/l	TM315	<0.01					
Propazine	<0.01 µg/l	TM315	<0.01					
Terbufos	<0.01 µg/l	TM315	<0.01					
Cypromazine	<0.01 µg/l	TM315	<0.01					
Chlorpyrifos-Methyl	<0.01 µg/l	TM315	<0.01					
Parathion-Methyl	<0.01 µg/l	TM315	<0.01					



SDG: 150924-44
Job: H_NCC_NPT-3
Client Reference:

Location: Docksway Landfill Site
Customer: Newport City Council
Attention: Meirion Humphreys

Order Number: 700077119
Report Number: 331938
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend		Customer Sample R	GW06/34	GW06/36	GW09/31	GW09/32	GW09/35	GW12/30
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
M	mCERTS accredited.		23/09/2015	23/09/2015	23/09/2015	23/09/2015	23/09/2015	23/09/2015
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% 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							
1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units		Method					
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Chlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Nitrophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
3-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Chloroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Nitrophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	2.72	<1 #	<1 #
Azobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Acenaphthylene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Acenaphthene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Anthracene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<2 #	<2 #	<2 #	<2 #	<2 #	<2 #
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #



CERTIFICATE OF ANALYSIS

SDG: 150924-44
 Job: H_NCC_NPT-3
 Client Reference:

Location: Docksway Landfill Site
 Customer: Newport City Council
 Attention: Meirion Humphreys

Order Number: 700077119
 Report Number: 331938
 Superseded Report:

SVOC MS (W) - Aqueous

Results Legend			Customer Sample R		GW06/34	GW06/36	GW09/31	GW09/32	GW09/35	GW12/30
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Water(GW/SW) 23/09/2015	Water(GW/SW) 23/09/2015	Water(GW/SW) 23/09/2015	Water(GW/SW) 23/09/2015	Water(GW/SW) 23/09/2015	Water(GW/SW) 23/09/2015
M	mCERTS accredited.				24/09/2015 150924-44 12117582	24/09/2015 150924-44 12117576	24/09/2015 150924-44 12117579	24/09/2015 150924-44 12117583	24/09/2015 150924-44 12117581	24/09/2015 150924-44 12117574
aq	Aqueous / settled sample.									
dis.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	Subcontracted test.									
**	% 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									
1-5&*\$@	Sample deviation (see appendix)									
Component	LOD/Units	Method								
Benzo(a)anthracene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Benzo(a)pyrene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Carbazole (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Chrysene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Dibenzofuran (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
n-Dibutyl phthalate (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Dimethyl phthalate (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
n-Dioctyl phthalate (aq)	<5 µg/l	TM176		<5	<5	<5	<5	<5	<5	<5
Fluoranthene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Fluorene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Hexachlorobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Pentachlorophenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Phenol (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Hexachloroethane (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Nitrobenzene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Naphthalene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Isophorone (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Phenanthrene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1
Pyrene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1	<1



SDG: 150924-44
 Job: H_NCC_NPT-3
 Client Reference:

Location: Docksway Landfill Site
 Customer: Newport City Council
 Attention: Meirion Humphreys

Order Number: 700077119
 Report Number: 331938
 Superseded Report:

SVOC MS (W) - Aqueous

Results Legend		Customer Sample R	GW12/33				
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW/SW) 23/09/2015 24/09/2015 150924-44 12117575				
M	mCERTS accredited.						
aq	Aqueous / settled sample.						
diss.filt	Dissolved / filtered sample.						
tot.unfilt	Total / unfiltered sample.						
*	Subcontracted test.						
**	% 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						
1-5&*\$@	Sample deviation (see appendix)						
Component	LOD/Units			Method			
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<1	#			
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<1	#			
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<1	#			
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<1				
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<1	#			
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<1	#			
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<1	#			
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<1	#			
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<1	#			
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<1	#			
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<1	#			
2-Chlorophenol (aq)	<1 µg/l	TM176	<1	#			
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<1	#			
2-Methylphenol (aq)	<1 µg/l	TM176	<1	#			
2-Nitroaniline (aq)	<1 µg/l	TM176	<1	#			
2-Nitrophenol (aq)	<1 µg/l	TM176	<1	#			
3-Nitroaniline (aq)	<1 µg/l	TM176	<1	#			
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<1	#			
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<1	#			
4-Chloroaniline (aq)	<1 µg/l	TM176	<1				
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<1	#			
4-Methylphenol (aq)	<1 µg/l	TM176	<1	#			
4-Nitroaniline (aq)	<1 µg/l	TM176	<1	#			
4-Nitrophenol (aq)	<1 µg/l	TM176	<1				
Azobenzene (aq)	<1 µg/l	TM176	<1	#			
Acenaphthylene (aq)	<1 µg/l	TM176	<1	#			
Acenaphthene (aq)	<1 µg/l	TM176	<1	#			
Anthracene (aq)	<1 µg/l	TM176	<1	#			
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<1	#			
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<1	#			
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<2	#			
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<1	#			



SDG: 150924-44
 Job: H_NCC_NPT-3
 Client Reference:

Location: Docksway Landfill Site
 Customer: Newport City Council
 Attention: Meirion Humphreys

Order Number: 700077119
 Report Number: 331938
 Superseded Report:

SVOC MS (W) - Aqueous

Results Legend		Customer Sample R	GW12/33				
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW/SW) 23/09/2015 24/09/2015 150924-44 12117575				
M	mCERTS accredited.						
aq	Aqueous / settled sample.						
diss.filt	Dissolved / filtered sample.						
tot.unfilt	Total / unfiltered sample.						
*	Subcontracted test.						
**	% 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						
1-5&+5@	Sample deviation (see appendix)						
Component	LOD/Units			Method			
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<1	#			
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<1	#			
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<1	#			
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<1	#			
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<1	#			
Carbazole (aq)	<1 µg/l	TM176	<1	#			
Chrysene (aq)	<1 µg/l	TM176	<1	#			
Dibenzofuran (aq)	<1 µg/l	TM176	<1	#			
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	1.19	#			
Diethyl phthalate (aq)	<1 µg/l	TM176	<1	#			
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<1	#			
Dimethyl phthalate (aq)	<1 µg/l	TM176	<1	#			
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<5	#			
Fluoranthene (aq)	<1 µg/l	TM176	<1	#			
Fluorene (aq)	<1 µg/l	TM176	<1	#			
Hexachlorobenzene (aq)	<1 µg/l	TM176	<1	#			
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<1	#			
Pentachlorophenol (aq)	<1 µg/l	TM176	<1	#			
Phenol (aq)	<1 µg/l	TM176	<1	#			
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<1	#			
Hexachloroethane (aq)	<1 µg/l	TM176	<1	#			
Nitrobenzene (aq)	<1 µg/l	TM176	<1	#			
Naphthalene (aq)	<1 µg/l	TM176	<1	#			
Isophorone (aq)	<1 µg/l	TM176	<1	#			
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<1	#			
Phenanthrene (aq)	<1 µg/l	TM176	<1	#			
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<1	#			
Pyrene (aq)	<1 µg/l	TM176	<1	#			



SDG: 150924-44
Job: H_NCC_NPT-3
Client Reference:

Location: Docksway Landfill Site
Customer: Newport City Council
Attention: Meirion Humphreys

Order Number: 700077119
Report Number: 331938
Superseded Report:

VOC MS (W)

Results Legend		Customer Sample R	GW06/34	GW06/36	GW09/31	GW09/32	GW09/35	GW12/30	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW/SW) 23/09/2015	Water(GW/SW) 23/09/2015	Water(GW/SW) 23/09/2015	Water(GW/SW) 23/09/2015	Water(GW/SW) 23/09/2015	Water(GW/SW) 23/09/2015	
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% 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								
1-5&*\$@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Dibromofluoromethane**	%	TM208	107	107	107	120	108	107	
Toluene-d8**	%	TM208	101	101	101	101	101	101	
4-Bromofluorobenzene**	%	TM208	99.1	100	100	101	99.4	100	
Dichlorodifluoromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
Chloromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
Vinyl chloride	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
Bromomethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
Chloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
Trichlorofluoromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
Carbon disulphide	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
Dichloromethane	<3 µg/l	TM208	<3	<3	<3	<3	<3	<3	
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
2,2-Dichloropropane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
Bromochloromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
Chloroform	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
1,1,1-Trichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
1,1-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
Carbontetrachloride	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
1,2-Dichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
Benzene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
Trichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
Dibromomethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
Bromodichloromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
Toluene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
1,1,2-Trichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	



CERTIFICATE OF ANALYSIS

SDG: 150924-44
Job: H_NCC_NPT-3
Client Reference:

Location: Docksway Landfill Site
Customer: Newport City Council
Attention: Meirion Humphreys

Order Number: 700077119
Report Number: 331938
Superseded Report:

VOC MS (W)

Results Legend			Customer Sample R		GW06/34	GW06/36	GW09/31	GW09/32	GW09/35	GW12/30
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Water(GW/SW) 23/09/2015	Water(GW/SW) 23/09/2015	Water(GW/SW) 23/09/2015	Water(GW/SW) 23/09/2015	Water(GW/SW) 23/09/2015	Water(GW/SW) 23/09/2015
M	mCERTS accredited.				24/09/2015 150924-44 12117582	24/09/2015 150924-44 12117576	24/09/2015 150924-44 12117579	24/09/2015 150924-44 12117583	24/09/2015 150924-44 12117581	24/09/2015 150924-44 12117574
aq	Aqueous / settled sample.									
dis.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	Subcontracted test.									
**	% 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									
1-5Ê	Sample deviation (see appendix)									
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
1,1,2,2-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

SDG: 150924-44
Job: H_NCC_NPT-3
Client Reference:

Location: Docksway Landfill Site
Customer: Newport City Council
Attention: Meirion Humphreys

Order Number: 700077119
Report Number: 331938
Superseded Report:

VOC MS (W)

Table with columns for Results Legend, Customer Sample R, and various sample IDs (GW06/34, GW06/36, GW09/31, GW09/32, GW09/35, GW12/30). Rows include components like 1,2,3-Trichlorobenzene and 1,3,5-Trichlorobenzene with LOD/Units and Method columns.



SDG: 150924-44
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 Report Number: 331938
 Superseded Report:

VOC MS (W)

Results Legend		Customer Sample R							
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GW12/33	Water(GW/SW)	23/09/2015	24/09/2015	150924-44	12117575	
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% 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								
1-5&*\$@	Sample deviation (see appendix)								
Component	LOD/Units								
Dibromofluoromethane**	%	TM208	108						
Toluene-d8**	%	TM208	101						
4-Bromofluorobenzene**	%	TM208	99.7						
Dichlorodifluoromethane	<1 µg/l	TM208	<1						
Chloromethane	<1 µg/l	TM208	<1	#					
Vinyl chloride	<1 µg/l	TM208	<1	#					
Bromomethane	<1 µg/l	TM208	<1	#					
Chloroethane	<1 µg/l	TM208	<1	#					
Trichlorofluoromethane	<1 µg/l	TM208	<1	#					
1,1-Dichloroethene	<1 µg/l	TM208	<1	#					
Carbon disulphide	<1 µg/l	TM208	<1	#					
Dichloromethane	<3 µg/l	TM208	<3	#					
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1	#					
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1	#					
1,1-Dichloroethane	<1 µg/l	TM208	<1	#					
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1	#					
2,2-Dichloropropane	<1 µg/l	TM208	<1						
Bromochloromethane	<1 µg/l	TM208	<1	#					
Chloroform	<1 µg/l	TM208	<1	#					
1,1,1-Trichloroethane	<1 µg/l	TM208	<1	#					
1,1-Dichloropropene	<1 µg/l	TM208	<1	#					
Carbontetrachloride	<1 µg/l	TM208	<1	#					
1,2-Dichloroethane	<1 µg/l	TM208	<1						
Benzene	<1 µg/l	TM208	<1	#					
Trichloroethene	<1 µg/l	TM208	<1	#					
1,2-Dichloropropane	<1 µg/l	TM208	<1	#					
Dibromomethane	<1 µg/l	TM208	<1	#					
Bromodichloromethane	<1 µg/l	TM208	<1	#					
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1	#					
Toluene	<1 µg/l	TM208	<1	#					
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1	#					
1,1,2-Trichloroethane	<1 µg/l	TM208	<1	#					



CERTIFICATE OF ANALYSIS

SDG: 150924-44
Job: H_NCC_NPT-3
Client Reference:

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Customer: Newport City Council
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Order Number: 700077119
Report Number: 331938
Superseded Report:

VOC MS (W)

Results Legend		Customer Sample R	GW12/33					
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW/SW) 23/09/2015 24/09/2015 150924-44 12117575					
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% 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							
1-5ö	Sample deviation (see appendix)							
Component	LOD/Units			Method				
1,3-Dichloropropane	<1 µg/l	TM208	<1	#				
Tetrachloroethene	<1 µg/l	TM208	<1	#				
Dibromochloromethane	<1 µg/l	TM208	<1	#				
1,2-Dibromoethane	<1 µg/l	TM208	<1	#				
Chlorobenzene	<1 µg/l	TM208	<1	#				
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208	<1	#				
Ethylbenzene	<1 µg/l	TM208	<1	#				
m,p-Xylene	<1 µg/l	TM208	<1	#				
o-Xylene	<1 µg/l	TM208	<1	#				
Styrene	<1 µg/l	TM208	<1	#				
Bromoform	<1 µg/l	TM208	<1	#				
Isopropylbenzene	<1 µg/l	TM208	<1	#				
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208	<1					
1,2,3-Trichloropropane	<1 µg/l	TM208	<1	#				
Bromobenzene	<1 µg/l	TM208	<1	#				
Propylbenzene	<1 µg/l	TM208	<1	#				
2-Chlorotoluene	<1 µg/l	TM208	<1	#				
1,3,5-Trimethylbenzene	<1 µg/l	TM208	<1	#				
4-Chlorotoluene	<1 µg/l	TM208	<1	#				
tert-Butylbenzene	<1 µg/l	TM208	<1	#				
1,2,4-Trimethylbenzene	<1 µg/l	TM208	<1	#				
sec-Butylbenzene	<1 µg/l	TM208	<1	#				
4-iso-Propyltoluene	<1 µg/l	TM208	<1	#				
1,3-Dichlorobenzene	<1 µg/l	TM208	<1	#				
1,4-Dichlorobenzene	<1 µg/l	TM208	<1	#				
n-Butylbenzene	<1 µg/l	TM208	<1	#				
1,2-Dichlorobenzene	<1 µg/l	TM208	<1					
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208	<1					
1,2,4-Trichlorobenzene	<1 µg/l	TM208	<1	#				
Hexachlorobutadiene	<1 µg/l	TM208	<1	#				
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1	#				
Naphthalene	<1 µg/l	TM208	<1	#				



CERTIFICATE OF ANALYSIS

SDG: 150924-44
Job: H_NCC_NPT-3
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Location: Docksway Landfill Site
Customer: Newport City Council
Attention: Meirion Humphreys

Order Number: 700077119
Report Number: 331938
Superseded Report:

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
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		
TM061	Method for the Determination of EPH,Massachusetts Dept.of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)		
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		
TM228	US EPA Method 6010B	Determination of Major Cations in Water by iCap 6500 Duo ICP-OES		
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		
TM314		Analysis of Organochlorine Pesticides in Aqueous sample by GCMS		
TM315		Analysis of Organophosphorus Pesticides in Aqueous samples by GCMS		
TM328				

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.



SDG: 150924-44
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Report Number: 331938
Superseded Report:

Test Completion Dates

Lab Sample No(s)	12117582	12117576	12117579	12117583	12117581	12117574	12117575
Customer Sample Ref.	GW06/34	GW06/36	GW09/31	GW09/32	GW09/35	GW12/30	GW12/33
AGS Ref.							
Depth							
Type	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
Alkalinity as CaCO3	28-Sep-2015	28-Sep-2015	28-Sep-2015	28-Sep-2015	28-Sep-2015	28-Sep-2015	28-Sep-2015
Alkalinity Filtered as CaCO3	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015
Ammoniacal Nitrogen	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015
Anions by Kone (w)	01-Oct-2015	01-Oct-2015	01-Oct-2015	01-Oct-2015	01-Oct-2015	01-Oct-2015	01-Oct-2015
BOD True Total	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015
COD Unfiltered	26-Sep-2015	26-Sep-2015	26-Sep-2015	26-Sep-2015	26-Sep-2015	26-Sep-2015	26-Sep-2015
Conductivity (at 20 deg.C)	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015
Cyanide Comp/Free/Total/Thiocyanate	28-Sep-2015	28-Sep-2015	28-Sep-2015	28-Sep-2015	28-Sep-2015	28-Sep-2015	28-Sep-2015
Dissolved Metals by ICP-MS	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015
Dissolved Organic/Inorganic Carbon	28-Sep-2015	28-Sep-2015	28-Sep-2015	28-Sep-2015	28-Sep-2015	28-Sep-2015	28-Sep-2015
EPH (DRO) (C10-C40) Aqueous (W)	29-Sep-2015	29-Sep-2015	29-Sep-2015	30-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015
Ionic Balance	01-Oct-2015	01-Oct-2015	01-Oct-2015	01-Oct-2015	01-Oct-2015	01-Oct-2015	01-Oct-2015
Mercury Dissolved	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015
Metals by iCap-OES Dissolved (W)	28-Sep-2015	25-Sep-2015	30-Sep-2015	28-Sep-2015	28-Sep-2015	25-Sep-2015	29-Sep-2015
Nitrite by Kone (w)	26-Sep-2015	26-Sep-2015	26-Sep-2015	26-Sep-2015	26-Sep-2015	26-Sep-2015	26-Sep-2015
Organochlorine Pesticides (Aq)	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015
Organophosphorus Pesticides (Aq)	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015
Organotins in Aqueous Samples	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015
pH Value	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015
Phenols by HPLC (W)	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015	29-Sep-2015	28-Sep-2015	29-Sep-2015
Sulphide	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015
SVOC MS (W) - Aqueous	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015
VOC MS (W)	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015	30-Sep-2015

SDG: 150924-44
Job: H_NCC_NPT-3
Client Reference:

Location: Docksway Landfill Site
Customer: Newport City Council
Attention: Meirion Humphreys

Order Number: 700077119
Report Number: 331938
Superseded Report:

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. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. 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. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. 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.

5. 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.

6. 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. The quantity of asbestos present is not determined unless specifically requested.

7. 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.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

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

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **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%, they are generally wider for volatiles analysis, 50-150%. 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.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

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

18. 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.

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

20. 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.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. 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.

23. 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.

Sample Deviations

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before preservation was performed
\$	Sampled on date not provided
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

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 Alcontrol Laboratories (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 Alcontrol Laboratories (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.

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.