

Certificate of Analysis

Non Potable Water Sample

Laboratory Reference: 10160387
Your Reference: SW1
For the attention of: P Lawrence
Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
TEMPSAMP	Temperature on sampling	13.7 Celsius
PCB 153 (3)	PCB 153	< 0.002 µg/l
PCB 52 (3)	PCB 52	< 0.002 µg/l
PCB 101 (3)	PCB 101	< 0.002 µg/l
PCB 118 (3)	PCB 118	< 0.003 µg/l
PCB 138 (3)	PCB 138	< 0.002 µg/l
PCB 28 (3)	PCB 28	< 0.002 µg/l
PCB 180 (3)	PCB 180	< 0.003 µg/l
VOC 1 (3)	Chlorobenzene	< 1.0 µg/l
i4203a	pH	7.4
VOC 2 (3)	Trichloroethene	< 1.0 µg/l
i4204a	Conductivity	880 µS/cm
VOC 3 (3)	Tetrachloroethene	< 1.0 µg/l
ACIDHRB1 (3)	Dichloroprop	< 0.10 µg/l
MERCURY (3)	Mercury (Total, ultra-low level)	< 0.100 µg/l
CADMIUM (3)	Cadmium (Total, ultra-low level)	0.130 µg/l
CYANIDE (3)	Cyanide (Total, low level)	< 0.009 mg/l
PAH 4 (3)	Benzo (a) pyrene	< 0.04 µg/l
PHENOL 1 (3)	2,4-dimethylphenol	< 2 µg/l
SVOC 1 (2)(3)	3 & 4-methylphenol	< 2 µg/l
PAH 1 (2)(3)	Acenaphthene	< 0.04 µg/l
PAH 2 (3)	Acenaphthylene	< 0.04 µg/l
PAH 3 (3)	Anthracene	< 0.04 µg/l
ACIDHRB2 (3)	Bentazone	< 0.10 µg/l
VOC 4 (2)(3)	Benzene	< 1.0 µg/l

(2) This determination is not included in the UKAS Accreditation Schedule of the laboratory

(3) This determination was sub-contracted to another UKAS accredited laboratory

Signature:



Name: James Darroch BSc, CChem, MRSC

Status: Laboratory Manager

Official Address: Aberdeen Scientific Services Laboratory, Old Aberdeen House, Dunbar Street, Aberdeen, AB24 3UJ

Telephone Number: (01224) 491648

Date Of Report: 17-October-2016

Issue Number: 1



1325

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PAH 5 (3)	Benzo (ghi) perylene	< 0.04 µg/l
PAH 6 (3)	Benzo (a) anthracene	< 0.04 µg/l
PAH 7 (3)	Benzo (b) fluoranthene	< 0.04 µg/l
PAH 8 (3)	Benzo (k) fluoranthene	< 0.04 µg/l
SVOC 2 (3)	Bis (2-ethylhexyl) phthalate	< 10 µg/l
PAH 9 (3)	Chrysene	< 0.04 µg/l
VOC 5 (3)	Cis-1,2-dichloroethene	< 1.0 µg/l
SVOC 3 (3)	Dibenz (a,h) anthracene	< 0.04 µg/l
VOC 6 (2)(3)	Ethyl benzene	< 1.0 µg/l
SVOC 4 (3)	Fluoranthene	< 0.04 µg/l
SVOC 5 (3)	Fluorene	< 0.04 µg/l
SVOC 6 (3)	Indeno (1,2,3-c,d) pyrene	< 0.04 µg/l
ACIDHRB3 (3)	Mecoprop	< 0.08 µg/l
VOC 7 (3)	MTBE	< 1.0 µg/l
VOC 8 (3)	Naphthalene	< 0.04 µg/l
i4512a	Suspended Solids	45 mg/l
SVOC 7 (3)	Pyrene	< 0.04 µg/l
VOC 9 (3)	m,p-xylene	< 1.0 µg/l
VOC 10 (3)	o-xylene	< 1.0 µg/l
i4102h	Chloride (as Cl)	220 mg/l
i4102l	Fluoride (as F)	< 0.15 mg/l
TON	Total Oxidised Nitrogen	11.2 mg/l
i4102i	Nitrate (as NO ₃)	11 mg/l
i4104a	Nitrite (as NO ₂)	0.2 mg/l
i4102j	Sulphate (as SO ₄)	34 mg/l

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Results of Analysis

Method Code	Determination	Result
i4520a	Ammonium (as NH ₄)	1.43 mg/l
i4524tSb	Antimony (total, as Sb)	< 0.005 mg/l
i4524tAs	Arsenic (total, as As)	< 0.003 mg/l
i4524tBa	Barium (total, as Ba)	0.29 mg/l
i4514f	BOD (with ATU)(seeded)	4 mg/l
i4514b	(2) Dissolved Oxygen	9.1 mg/l
BERYLLM	(3) Beryllium (total as Be)	< 2.1 µg/l
i4524tB	Boron (total, as B)	0.3 mg/l
i4521a	Total Organic Carbon (filtered)	10 mg/l
i4519a	Chemical Oxygen Demand (total)	33 mg/l
VOC 11	(3) Chloroethane	< 1.0 µg/l
i4524tCo	Cobalt (total, as Co)	0.004 mg/l
i4524tCu	Copper (total, as Cu)	0.012 mg/l
ACIDHRB4	(3) Fenoprop	< 0.10 µg/l
i4524tPb	Lead (total, as Pb)	0.004 mg/l
i4524tMo	Molybdenum (total, as Mo)	< 0.005 mg/l
i4524tNi	Nickel (total, as Ni)	0.011 mg/l
PAH 10	(2)(3) PAH (total)	< 0.040 µg/l
PAH 11	(3) Phenanthrene	< 0.04 µg/l
i4524tP	Phosphorus (total, as P)	0.372 mg/l
i4524tSe	Selenium (total, as Se)	< 0.005 mg/l
i4524tTi	Titanium (total, as Ti)	0.014 mg/l
TELL	(2)(3) Tellerium (total as Te)	< 0.38 µg/l
i4524tTl	Thallium (total, as Tl)	< 0.003 mg/l
i4510b	(3) Total Hydrocarbons (C6 to C40)	< 0.040 mg/l

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Method Code	Determination	Result
URAN (2)(3)	Uranium (total as U)	0.690 µg/l
i4524tV	Vanadium (total, as V)	< 0.010 mg/l
i4524tZn	Zinc (total, as Zn)	0.04 mg/l
i4524_TH	Total Hardness (as CaCO3)	151 mg/l
i4524tCa	Calcium (total, as Ca)	41.3 mg/l
i4524tCr	Chromium (total, as Cr)	< 0.002 mg/l
i4524tK	Potassium (total, as K)	8.2 mg/l
i4524tMg	Magnesium (total, as Mg)	11.6 mg/l
i4524tMn	Manganese (total, as Mn)	0.596 mg/l
i4524tNa	Sodium (total, as Na)	116 mg/l
i4524tFe	Iron (total, as Fe)	16.1 mg/l

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Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
TEMPSAMP	Temperature on sampling	13.8 Celsius
PCB 153 (3)	PCB 153	< 0.002 µg/l
PCB 52 (3)	PCB 52	< 0.002 µg/l
PCB 101 (3)	PCB 101	< 0.002 µg/l
PCB 118 (3)	PCB 118	< 0.003 µg/l
PCB 138 (3)	PCB 138	< 0.002 µg/l
PCB 28 (3)	PCB 28	< 0.002 µg/l
PCB 180 (3)	PCB 180	< 0.003 µg/l
VOC 1 (3)	Chlorobenzene	< 1.0 µg/l
i4203a	pH	7.4
VOC 2 (3)	Trichloroethene	< 1.0 µg/l
i4204a	Conductivity	905 µS/cm
VOC 3 (3)	Tetrachloroethene	< 1.0 µg/l
ACIDHRB1 (3)	Dichloroprop	< 0.05 µg/l
MERCURY (3)	Mercury (Total, ultra-low level)	< 0.100 µg/l
CADMIUM (3)	Cadmium (Total, ultra-low level)	< 0.070 µg/l
CYANIDE (3)	Cyanide (Total, low level)	< 0.009 mg/l
PAH 4 (3)	Benzo (a) pyrene	< 0.02 µg/l
PHENOL 1 (3)	2,4-dimethylphenol	< 1 µg/l
SVOC 1 (2)(3)	3 & 4-methylphenol	< 1 µg/l
PAH 1 (2)(3)	Acenaphthene	< 0.02 µg/l
PAH 2 (3)	Acenaphthylene	< 0.02 µg/l
PAH 3 (3)	Anthracene	< 0.02 µg/l
ACIDHRB2 (3)	Bentazone	< 0.05 µg/l
VOC 4 (2)(3)	Benzene	< 1.0 µg/l

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PAH 5 (3)	Benzo (ghi) perylene	< 0.02 µg/l
PAH 6 (3)	Benzo (a) anthracene	< 0.02 µg/l
PAH 7 (3)	Benzo (b) fluoranthene	< 0.02 µg/l
PAH 8 (3)	Benzo (k) fluoranthene	< 0.02 µg/l
SVOC 2 (3)	Bis (2-ethylhexyl) phthalate	< 5 µg/l
PAH 9 (3)	Chrysene	< 0.02 µg/l
VOC 5 (3)	Cis-1,2-dichloroethene	< 1.0 µg/l
SVOC 3 (3)	Dibenz (a,h) anthracene	< 0.02 µg/l
VOC 6 (2)(3)	Ethyl benzene	< 1.0 µg/l
SVOC 4 (3)	Fluoranthene	< 0.02 µg/l
SVOC 5 (3)	Fluorene	< 0.02 µg/l
SVOC 6 (3)	Indeno (1,2,3-c,d) pyrene	< 0.02 µg/l
ACIDHRB3 (3)	Mecoprop	0.06 µg/l
VOC 7 (3)	MTBE	< 1.0 µg/l
VOC 8 (3)	Naphthalene	< 0.04 µg/l
i4512a	Suspended Solids	30 mg/l
SVOC 7 (3)	Pyrene	< 0.02 µg/l
VOC 9 (3)	m,p-xylene	< 1.0 µg/l
VOC 10 (3)	o-xylene	< 1.0 µg/l
i4102h	Chloride (as Cl)	220 mg/l
i4102l	Fluoride (as F)	< 0.15 mg/l
TON	Total Oxidised Nitrogen	12.2 mg/l
i4102i	Nitrate (as NO3)	12 mg/l
i4104a	Nitrite (as NO2)	0.2 mg/l
i4102j	Sulphate (as SO4)	37 mg/l

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Method Code	Determination	Result
i4520c	Ammonium (as NH ₄)	2.6 mg/l
i4524tSb	Antimony (total, as Sb)	< 0.005 mg/l
i4524tAs	Arsenic (total, as As)	< 0.003 mg/l
i4524tBa	Barium (total, as Ba)	0.38 mg/l
i4514f	BOD (with ATU)(seeded)	6 mg/l
i4514b (2)	Dissolved Oxygen	8.4 mg/l
BERYLLM (3)	Beryllium (total as Be)	< 2.1 µg/l
i4524tB	Boron (total, as B)	0.5 mg/l
i4521a	Total Organic Carbon (filtered)	9 mg/l
i4519a	Chemical Oxygen Demand (total)	35 mg/l
VOC 11 (3)	Chloroethane	< 1.0 µg/l
i4524tCo	Cobalt (total, as Co)	0.003 mg/l
i4524tCu	Copper (total, as Cu)	< 0.010 mg/l
ACIDHRB4 (3)	Fenoprop	< 0.05 µg/l
i4524tPb	Lead (total, as Pb)	0.005 mg/l
i4524tMo	Molybdenum (total, as Mo)	< 0.005 mg/l
i4524tNi	Nickel (total, as Ni)	0.010 mg/l
PAH 10 (2)(3)	PAH (total)	< 0.020 µg/l
PAH 11 (3)	Phenanthrene	< 0.02 µg/l
i4524tP	Phosphorus (total, as P)	0.439 mg/l
i4524tSe	Selenium (total, as Se)	< 0.005 mg/l
i4524tTi	Titanium (total, as Ti)	0.015 mg/l
TELL (2)(3)	Tellurium (total as Te)	< 0.38 µg/l
i4524tTl	Thallium (total, as Tl)	< 0.003 mg/l
i4510b (3)	Total Hydrocarbons (C6 to C40)	0.020 mg/l

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Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
URAN (2)(3)	Uranium (total as U)	0.740 µg/l
i4524tV	Vanadium (total, as V)	< 0.010 mg/l
i4524tZn	Zinc (total, as Zn)	0.02 mg/l
i4524_TH	Total Hardness (as CaCO3)	163 mg/l
i4524tCa	Calcium (total, as Ca)	44.1 mg/l
i4524tCr	Chromium (total, as Cr)	< 0.002 mg/l
i4524tFe	Iron (total, as Fe)	3.63 mg/l
i4524tK	Potassium (total, as K)	9.4 mg/l
i4524tMg	Magnesium (total, as Mg)	12.9 mg/l
i4524tMn	Manganese (total, as Mn)	0.616 mg/l
i4524tNa	Sodium (total, as Na)	119 mg/l

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Laboratory Reference: 10160389
Your Reference: SW3
For the attention of: P Lawrence
Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
TEMPSAMP	Temperature on sampling	14.3 Celsius
PCB 153 (3)	PCB 153	< 0.002 µg/l
PCB 52 (3)	PCB 52	< 0.002 µg/l
PCB 101 (3)	PCB 101	< 0.002 µg/l
PCB 118 (3)	PCB 118	< 0.003 µg/l
PCB 138 (3)	PCB 138	< 0.002 µg/l
PCB 28 (3)	PCB 28	< 0.002 µg/l
PCB 180 (3)	PCB 180	< 0.003 µg/l
VOC 1 (3)	Chlorobenzene	< 1.0 µg/l
i4203a	pH	7.2
VOC 2 (3)	Trichloroethene	< 1.0 µg/l
i4204a	Conductivity	935 µS/cm
VOC 3 (3)	Tetrachloroethene	< 1.0 µg/l
ACIDHRB1 (3)	Dichloroprop	< 0.05 µg/l
MERCURY (3)	Mercury (Total, ultra-low level)	< 0.100 µg/l
CADMIUM (3)	Cadmium (Total, ultra-low level)	< 0.070 µg/l
CYANIDE (3)	Cyanide (Total, low level)	< 0.009 mg/l
PAH 4 (3)	Benzo (a) pyrene	< 0.02 µg/l
PHENOL 1 (3)	2,4-dimethylphenol	< 1 µg/l
SVOC 1 (2)(3)	3 & 4-methylphenol	< 1 µg/l
PAH 1 (2)(3)	Acenaphthene	< 0.02 µg/l
PAH 2 (3)	Acenaphthylene	< 0.02 µg/l
PAH 3 (3)	Anthracene	< 0.02 µg/l
ACIDHRB2 (3)	Bentazone	< 0.05 µg/l
VOC 4 (2)(3)	Benzene	< 1.0 µg/l

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PAH 5 (3)	Benzo (ghi) perylene	< 0.02 µg/l
PAH 6 (3)	Benzo (a) anthracene	< 0.02 µg/l
PAH 7 (3)	Benzo (b) fluoranthene	< 0.02 µg/l
PAH 8 (3)	Benzo (k) fluoranthene	< 0.02 µg/l
SVOC 2 (3)	Bis (2-ethylhexyl) phthalate	< 5 µg/l
PAH 9 (3)	Chrysene	< 0.02 µg/l
VOC 5 (3)	Cis-1,2-dichloroethene	< 1.0 µg/l
SVOC 3 (3)	Dibenz (a,h) anthracene	< 0.02 µg/l
VOC 6 (2)(3)	Ethyl benzene	< 1.0 µg/l
SVOC 4 (3)	Fluoranthene	< 0.02 µg/l
SVOC 5 (3)	Fluorene	< 0.02 µg/l
SVOC 6 (3)	Indeno (1,2,3-c,d) pyrene	< 0.02 µg/l
ACIDHRB3 (3)	Mecoprop	< 0.05 µg/l
VOC 7 (3)	MTBE	< 1.0 µg/l
VOC 8 (3)	Naphthalene	< 0.04 µg/l
i4512a	Suspended Solids	< 10 mg/l
SVOC 7 (3)	Pyrene	< 0.02 µg/l
VOC 9 (3)	m,p-xylene	< 1.0 µg/l
VOC 10 (3)	o-xylene	< 1.0 µg/l
i4102h	Chloride (as Cl)	210 mg/l
i4102l	Fluoride (as F)	< 0.15 mg/l
TON	Total Oxidised Nitrogen	13.8 mg/l
i4102i	Nitrate (as NO3)	13 mg/l
i4104a	Nitrite (as NO2)	0.7 mg/l
i4102j	Sulphate (as SO4)	35 mg/l

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Results of Analysis

Method Code	Determination	Result
i4520c	Ammonium (as NH ₄)	2.9 mg/l
i4524tSb	Antimony (total, as Sb)	< 0.005 mg/l
i4524tAs	Arsenic (total, as As)	< 0.003 mg/l
i4524tBa	Barium (total, as Ba)	0.24 mg/l
i4514f	BOD (with ATU)(seeded)	1 mg/l
i4514b	(2) Dissolved Oxygen	5.0 mg/l
BERYLLM	(3) Beryllium (total as Be)	< 2.1 µg/l
i4524tB	Boron (total, as B)	0.3 mg/l
i4521a	Total Organic Carbon (filtered)	11 mg/l
i4519a	Chemical Oxygen Demand (total)	25 mg/l
VOC 11	(3) Chloroethane	< 1.0 µg/l
i4524tCo	Cobalt (total, as Co)	< 0.002 mg/l
i4524tCu	Copper (total, as Cu)	< 0.010 mg/l
ACIDHRB4	(3) Fenoprop	< 0.05 µg/l
i4524tPb	Lead (total, as Pb)	< 0.002 mg/l
i4524tMo	Molybdenum (total, as Mo)	< 0.005 mg/l
i4524tNi	Nickel (total, as Ni)	0.007 mg/l
PAH 10	(2)(3) PAH (total)	< 0.020 µg/l
PAH 11	(3) Phenanthrene	< 0.02 µg/l
i4524tP	Phosphorus (total, as P)	0.069 mg/l
i4524tSe	Selenium (total, as Se)	< 0.005 mg/l
i4524tTi	Titanium (total, as Ti)	0.005 mg/l
TELL	(2)(3) Tellerium (total as Te)	< 0.38 µg/l
i4524tTl	Thallium (total, as Tl)	< 0.003 mg/l
i4510b	(3) Total Hydrocarbons (C6 to C40)	< 0.020 mg/l

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Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
URAN (2)(3)	Uranium (total as U)	0.910 µg/l
i4524tV	Vanadium (total, as V)	< 0.010 mg/l
i4524tZn	Zinc (total, as Zn)	0.01 mg/l
i4524_TH	Total Hardness (as CaCO ₃)	175 mg/l
i4524tCa	Calcium (total, as Ca)	49.3 mg/l
i4524tCr	Chromium (total, as Cr)	< 0.002 mg/l
i4524tFe	Iron (total, as Fe)	0.366 mg/l
i4524tK	Potassium (total, as K)	11.5 mg/l
i4524tMg	Magnesium (total, as Mg)	12.7 mg/l
i4524tMn	Manganese (total, as Mn)	0.391 mg/l
i4524tNa	Sodium (total, as Na)	116 mg/l

Signature:



Name: James Darroch BSc, CChem, MRSC

Status: Laboratory Manager

Official Address: Aberdeen Scientific Services Laboratory, Old Aberdeen House, Dunbar Street, Aberdeen, AB24 3UJ

Telephone Number: (01224) 491648

Date Of Report: 17-October-2016

Issue Number: 1



1325

Certificate of Analysis

Non Potable Water Sample

Laboratory Reference: 10160390
Your Reference: SW4
For the attention of: P Lawrence
Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
TEMPSAMP	Temperature on sampling	14.2 Celsius
PCB 153 (3)	PCB 153	< 0.002 µg/l
PCB 52 (3)	PCB 52	< 0.002 µg/l
PCB 101 (3)	PCB 101	< 0.002 µg/l
PCB 118 (3)	PCB 118	< 0.003 µg/l
PCB 138 (3)	PCB 138	< 0.002 µg/l
PCB 28 (3)	PCB 28	< 0.002 µg/l
PCB 180 (3)	PCB 180	< 0.003 µg/l
VOC 1 (3)	Chlorobenzene	< 1.0 µg/l
i4203a	pH	7.3
VOC 2 (3)	Trichloroethene	< 1.0 µg/l
i4204a	Conductivity	930 µS/cm
VOC 3 (3)	Tetrachloroethene	< 1.0 µg/l
ACIDHRB1 (3)	Dichloroprop	< 0.05 µg/l
MERCURY (3)	Mercury (Total, ultra-low level)	< 0.100 µg/l
CADMIUM (3)	Cadmium (Total, ultra-low level)	< 0.070 µg/l
CYANIDE (3)	Cyanide (Total, low level)	< 0.009 mg/l
PAH 4 (3)	Benzo (a) pyrene	< 0.02 µg/l
PHENOL 1 (3)	2,4-dimethylphenol	< 1 µg/l
SVOC 1 (2)(3)	3 & 4-methylphenol	< 1 µg/l
PAH 1 (2)(3)	Acenaphthene	< 0.02 µg/l
PAH 2 (3)	Acenaphthylene	< 0.02 µg/l
PAH 3 (3)	Anthracene	< 0.02 µg/l
ACIDHRB2 (3)	Bentazone	< 0.05 µg/l
VOC 4 (2)(3)	Benzene	< 1.0 µg/l

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Signature:



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Certificate of Analysis

Non Potable Water Sample

Laboratory Reference: 10160390
Your Reference: SW4
For the attention of: P Lawrence
Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
PAH 5 (3)	Benzo (ghi) perylene	< 0.02 µg/l
PAH 6 (3)	Benzo (a) anthracene	< 0.02 µg/l
PAH 7 (3)	Benzo (b) fluoranthene	< 0.02 µg/l
PAH 8 (3)	Benzo (k) fluoranthene	< 0.02 µg/l
SVOC 2 (3)	Bis (2-ethylhexyl) phthalate	< 5 µg/l
PAH 9 (3)	Chrysene	< 0.02 µg/l
VOC 5 (3)	Cis-1,2-dichloroethene	< 1.0 µg/l
SVOC 3 (3)	Dibenz (a,h) anthracene	< 0.02 µg/l
VOC 6 (2)(3)	Ethyl benzene	< 1.0 µg/l
SVOC 4 (3)	Fluoranthene	< 0.02 µg/l
SVOC 5 (3)	Fluorene	< 0.02 µg/l
SVOC 6 (3)	Indeno (1,2,3-c,d) pyrene	< 0.02 µg/l
ACIDHRB3 (3)	Mecoprop	< 0.05 µg/l
VOC 7 (3)	MTBE	< 1.0 µg/l
VOC 8 (3)	Naphthalene	< 0.04 µg/l
i4512a	Suspended Solids	< 10 mg/l
SVOC 7 (3)	Pyrene	< 0.02 µg/l
VOC 9 (3)	m,p-xylene	< 1.0 µg/l
VOC 10 (3)	o-xylene	< 1.0 µg/l
i4102h	Chloride (as Cl)	210 mg/l
i4102l	Fluoride (as F)	< 0.15 mg/l
TON	Total Oxidised Nitrogen	13.9 mg/l
i4102i	Nitrate (as NO3)	13 mg/l
i4104a	Nitrite (as NO2)	0.8 mg/l
i4102j	Sulphate (as SO4)	35 mg/l

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Non Potable Water Sample

Laboratory Reference: 10160390
Your Reference: SW4
For the attention of: P Lawrence
Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
i4520a	Ammonium (as NH ₄)	2.38 mg/l
i4524tSb	Antimony (total, as Sb)	< 0.005 mg/l
i4524tAs	Arsenic (total, as As)	< 0.003 mg/l
i4524tBa	Barium (total, as Ba)	0.25 mg/l
i4514f	BOD (with ATU)(seeded)	2 mg/l
i4514b	(2) Dissolved Oxygen	6.8 mg/l
BERYLLM	(3) Beryllium (total as Be)	< 2.1 µg/l
i4524tB	Boron (total, as B)	0.4 mg/l
i4521a	Total Organic Carbon (filtered)	12 mg/l
i4519a	Chemical Oxygen Demand (total)	29 mg/l
VOC 11	(3) Chloroethane	< 1.0 µg/l
i4524tCo	Cobalt (total, as Co)	< 0.002 mg/l
i4524tCu	Copper (total, as Cu)	< 0.010 mg/l
ACIDHRB4	(3) Fenoprop	< 0.05 µg/l
i4524tPb	Lead (total, as Pb)	0.003 mg/l
i4524tMo	Molybdenum (total, as Mo)	< 0.005 mg/l
i4524tNi	Nickel (total, as Ni)	0.007 mg/l
PAH 10	(2)(3) PAH (total)	< 0.020 µg/l
PAH 11	(3) Phenanthrene	< 0.02 µg/l
i4524tP	Phosphorus (total, as P)	0.077 mg/l
i4524tSe	Selenium (total, as Se)	< 0.005 mg/l
i4524tTi	Titanium (total, as Ti)	0.006 mg/l
TELL	(2)(3) Tellerium (total as Te)	< 0.38 µg/l
i4524tTl	Thallium (total, as Tl)	< 0.003 mg/l
i4510b	(3) Total Hydrocarbons (C6 to C40)	0.095 mg/l

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For the attention of: P Lawrence
Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
URAN (2)(3)	Uranium (total as U)	0.880 µg/l
i4524tV	Vanadium (total, as V)	< 0.010 mg/l
i4524tZn	Zinc (total, as Zn)	0.01 mg/l
i4524_TH	Total Hardness (as CaCO ₃)	167 mg/l
i4524tCa	Calcium (total, as Ca)	45.6 mg/l
i4524tCr	Chromium (total, as Cr)	< 0.002 mg/l
i4524tFe	Iron (total, as Fe)	0.420 mg/l
i4524tK	Potassium (total, as K)	11.3 mg/l
i4524tMg	Magnesium (total, as Mg)	12.9 mg/l
i4524tMn	Manganese (total, as Mn)	0.421 mg/l
i4524tNa	Sodium (total, as Na)	110 mg/l

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1325

Certificate of Analysis

Non Potable Water Sample

Laboratory Reference: 10160391
Your Reference: SW5
For the attention of: P Lawrence
Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
TEMPSAMP	Temperature on sampling	13.6 Celsius
PCB 153 (3)	PCB 153	< 0.002 µg/l
PCB 52 (3)	PCB 52	< 0.002 µg/l
PCB 101 (3)	PCB 101	< 0.002 µg/l
PCB 118 (3)	PCB 118	< 0.003 µg/l
PCB 138 (3)	PCB 138	< 0.002 µg/l
PCB 28 (3)	PCB 28	< 0.002 µg/l
PCB 180 (3)	PCB 180	< 0.003 µg/l
VOC 1 (3)	Chlorobenzene	< 1.0 µg/l
i4203a	pH	7.6
VOC 2 (3)	Trichloroethene	< 1.0 µg/l
i4204a	Conductivity	1730 µS/cm
VOC 3 (3)	Tetrachloroethene	< 1.0 µg/l
ACIDHRB1 (3)	Dichloroprop	< 0.20 µg/l
MERCURY (3)	Mercury (Total, ultra-low level)	< 0.100 µg/l
CADMIUM (3)	Cadmium (Total, ultra-low level)	< 0.070 µg/l
CYANIDE (3)	Cyanide (Total, low level)	< 0.009 mg/l
PAH 4 (3)	Benzo (a) pyrene	< 0.04 µg/l
PHENOL 1 (3)	2,4-dimethylphenol	< 2 µg/l
SVOC 1 (2)(3)	3 & 4-methylphenol	< 2 µg/l
PAH 1 (2)(3)	Acenaphthene	< 0.04 µg/l
PAH 2 (3)	Acenaphthylene	< 0.04 µg/l
PAH 3 (3)	Anthracene	< 0.04 µg/l
ACIDHRB2 (3)	Bentazone	< 0.20 µg/l
VOC 4 (2)(3)	Benzene	< 1.0 µg/l

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For the attention of: P Lawrence
Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
PAH 5 (3)	Benzo (ghi) perylene	< 0.04 µg/l
PAH 6 (3)	Benzo (a) anthracene	< 0.04 µg/l
PAH 7 (3)	Benzo (b) fluoranthene	< 0.04 µg/l
PAH 8 (3)	Benzo (k) fluoranthene	< 0.04 µg/l
SVOC 2 (3)	Bis (2-ethylhexyl) phthalate	< 10 µg/l
PAH 9 (3)	Chrysene	< 0.04 µg/l
VOC 5 (3)	Cis-1,2-dichloroethene	< 1.0 µg/l
SVOC 3 (3)	Dibenz (a,h) anthracene	< 0.04 µg/l
VOC 6 (2)(3)	Ethyl benzene	< 1.0 µg/l
SVOC 4 (3)	Fluoranthene	< 0.04 µg/l
SVOC 5 (3)	Fluorene	< 0.04 µg/l
SVOC 6 (3)	Indeno (1,2,3-c,d) pyrene	< 0.04 µg/l
ACIDHRB3 (3)	Mecoprop	1.54 µg/l
VOC 7 (3)	MTBE	< 1.0 µg/l
VOC 8 (3)	Naphthalene	< 0.04 µg/l
i4512a	Suspended Solids	50 mg/l
SVOC 7 (3)	Pyrene	< 0.04 µg/l
VOC 9 (3)	m,p-xylene	< 1.0 µg/l
VOC 10 (3)	o-xylene	< 1.0 µg/l
i4102h	Chloride (as Cl)	240 mg/l
i4102l	Fluoride (as F)	< 0.15 mg/l
TON	Total Oxidised Nitrogen	14.8 mg/l
i4102i	Nitrate (as NO3)	14 mg/l
i4104a	Nitrite (as NO2)	0.9 mg/l
i4102j	Sulphate (as SO4)	32 mg/l

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Non Potable Water Sample

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Your Reference: SW5
For the attention of: P Lawrence
Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
i4520a	Ammonium (as NH ₄)	1.56 mg/l
i4524tSb	Antimony (total, as Sb)	< 0.005 mg/l
i4524tAs	Arsenic (total, as As)	0.007 mg/l
i4524tBa	Barium (total, as Ba)	0.31 mg/l
i4514f	BOD (with ATU)(seeded)	5 mg/l
i4514b	(2) Dissolved Oxygen	8.2 mg/l
BERYLLM	(3) Beryllium (total as Be)	< 2.1 µg/l
i4524tB	Boron (total, as B)	0.9 mg/l
i4521b	Total Organic Carbon (filtered)	38 mg/l
i4519a	Chemical Oxygen Demand (total)	100 mg/l
VOC 11	(3) Chloroethane	< 1.0 µg/l
i4524tCo	Cobalt (total, as Co)	0.004 mg/l
i4524tCu	Copper (total, as Cu)	0.016 mg/l
ACIDHRB4	(3) Fenoprop	< 0.20 µg/l
i4524tPb	Lead (total, as Pb)	0.012 mg/l
i4524tMo	Molybdenum (total, as Mo)	< 0.005 mg/l
i4524tNi	Nickel (total, as Ni)	0.017 mg/l
PAH 10	(2)(3) PAH (total)	< 0.040 µg/l
PAH 11	(3) Phenanthrene	< 0.04 µg/l
i4524tP	Phosphorus (total, as P)	0.553 mg/l
i4524tSe	Selenium (total, as Se)	< 0.005 mg/l
i4524tTi	Titanium (total, as Ti)	0.069 mg/l
TELL	(2)(3) Tellurium (total as Te)	< 0.38 µg/l
i4524tTl	Thallium (total, as Tl)	< 0.003 mg/l
i4510b	(3) Total Hydrocarbons (C6 to C40)	< 0.040 mg/l

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Your Reference: SW5
For the attention of: P Lawrence
Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
URAN (2)(3)	Uranium (total as U)	0.660 µg/l
i4524tV	Vanadium (total, as V)	< 0.010 mg/l
i4524tZn	Zinc (total, as Zn)	0.02 mg/l
i4524_TH	Total Hardness (as CaCO ₃)	256 mg/l
i4524tCr	Chromium (total, as Cr)	0.013 mg/l
i4524tFe	Iron (total, as Fe)	9.60 mg/l
i4524tK	Potassium (total, as K)	70.9 mg/l
i4524tMg	Magnesium (total, as Mg)	25.4 mg/l
i4524tMn	Manganese (total, as Mn)	0.909 mg/l
i4524tNa	Sodium (total, as Na)	156 mg/l
i4524tCa	Calcium (total, as Ca)	60.8 mg/l

Signature:



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1325

Certificate of Analysis

Non Potable Water Sample

Laboratory Reference: 10160392
Your Reference: SW6
For the attention of: P Lawrence
Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
TEMPSAMP	Temperature on sampling	13.4 Celsius
PCB 153 (3)	PCB 153	< 0.002 µg/l
PCB 52 (3)	PCB 52	< 0.002 µg/l
PCB 101 (3)	PCB 101	< 0.002 µg/l
PCB 118 (3)	PCB 118	< 0.003 µg/l
PCB 138 (3)	PCB 138	< 0.002 µg/l
PCB 28 (3)	PCB 28	< 0.002 µg/l
PCB 180 (3)	PCB 180	< 0.003 µg/l
VOC 1 (3)	Chlorobenzene	< 1.0 µg/l
i4203a	pH	8.1
VOC 2 (3)	Trichloroethene	< 1.0 µg/l
i4204a	Conductivity	1150 µS/cm
VOC 3 (3)	Tetrachloroethene	< 1.0 µg/l
ACIDHRB1 (3)	Dichloroprop	< 0.20 µg/l
MERCURY (3)	Mercury (Total, ultra-low level)	< 0.100 µg/l
CADMIUM (3)	Cadmium (Total, ultra-low level)	< 0.070 µg/l
CYANIDE (3)	Cyanide (Total, low level)	< 0.009 mg/l
PAH 4 (3)	Benzo (a) pyrene	< 0.04 µg/l
PHENOL 1 (3)	2,4-dimethylphenol	< 2 µg/l
SVOC 1 (2)(3)	3 & 4-methylphenol	< 2 µg/l
PAH 1 (2)(3)	Acenaphthene	< 0.04 µg/l
PAH 2 (3)	Acenaphthylene	< 0.04 µg/l
PAH 3 (3)	Anthracene	< 0.04 µg/l
ACIDHRB2 (3)	Bentazone	< 0.20 µg/l
VOC 4 (2)(3)	Benzene	< 1.0 µg/l

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Your Reference: SW6
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Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
PAH 5 (3)	Benzo (ghi) perylene	< 0.04 µg/l
PAH 6 (3)	Benzo (a) anthracene	< 0.04 µg/l
PAH 7 (3)	Benzo (b) fluoranthene	< 0.04 µg/l
PAH 8 (3)	Benzo (k) fluoranthene	< 0.04 µg/l
SVOC 2 (3)	Bis (2-ethylhexyl) phthalate	< 10 µg/l
PAH 9 (3)	Chrysene	< 0.04 µg/l
VOC 5 (3)	Cis-1,2-dichloroethene	< 1.0 µg/l
SVOC 3 (3)	Dibenz (a,h) anthracene	< 0.04 µg/l
VOC 6 (2)(3)	Ethyl benzene	< 1.0 µg/l
SVOC 4 (3)	Fluoranthene	< 0.04 µg/l
SVOC 5 (3)	Fluorene	< 0.04 µg/l
SVOC 6 (3)	Indeno (1,2,3-c,d) pyrene	< 0.04 µg/l
ACIDHRB3 (3)	Mecoprop	0.20 µg/l
VOC 7 (3)	MTBE	< 1.0 µg/l
VOC 8 (3)	Naphthalene	< 0.04 µg/l
i4512a	Suspended Solids	< 10 mg/l
SVOC 7 (3)	Pyrene	< 0.04 µg/l
VOC 9 (3)	m,p-xylene	< 1.0 µg/l
VOC 10 (3)	o-xylene	< 1.0 µg/l
i4102h	Chloride (as Cl)	110 mg/l
i4102l	Fluoride (as F)	< 0.15 mg/l
TON	Total Oxidised Nitrogen	27.5 mg/l
i4102i	Nitrate (as NO3)	27 mg/l
i4104a	Nitrite (as NO2)	0.2 mg/l
i4102j	Sulphate (as SO4)	110 mg/l

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Your Reference: SW6
For the attention of: P Lawrence
Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
i4520a	Ammonium (as NH ₄)	0.29 mg/l
i4524tSb	Antimony (total, as Sb)	< 0.005 mg/l
i4524tAs	Arsenic (total, as As)	< 0.003 mg/l
i4524tBa	Barium (total, as Ba)	0.09 mg/l
i4514f	BOD (with ATU)(seeded)	< 1 mg/l
i4514b	(2) Dissolved Oxygen	8.5 mg/l
BERYLLM	(3) Beryllium (total as Be)	< 2.1 µg/l
i4524tB	Boron (total, as B)	0.6 mg/l
i4521b	Total Organic Carbon (filtered)	70 mg/l
i4519a	Chemical Oxygen Demand (total)	72 mg/l
VOC 11	(3) Chloroethane	< 1.0 µg/l
i4524tCo	Cobalt (total, as Co)	< 0.002 mg/l
i4524tCu	Copper (total, as Cu)	0.016 mg/l
ACIDHRB4	(3) Fenoprop	< 0.20 µg/l
i4524tPb	Lead (total, as Pb)	0.003 mg/l
i4524tMo	Molybdenum (total, as Mo)	< 0.005 mg/l
i4524tNi	Nickel (total, as Ni)	0.006 mg/l
PAH 10	(2)(3) PAH (total)	< 0.040 µg/l
PAH 11	(3) Phenanthrene	< 0.04 µg/l
i4524tP	Phosphorus (total, as P)	< 0.050 mg/l
i4524tSe	Selenium (total, as Se)	< 0.005 mg/l
i4524tTi	Titanium (total, as Ti)	0.005 mg/l
TELL	(2)(3) Tellerium (total as Te)	< 0.38 µg/l
i4524tTl	Thallium (total, as Tl)	< 0.003 mg/l
i4510b	(3) Total Hydrocarbons (C6 to C40)	< 0.040 mg/l

(2) This determination is not included in the UKAS Accreditation Schedule of the laboratory

(3) This determination was sub-contracted to another UKAS accredited laboratory

Signature:



Name: James Darroch BSc, CChem, MRSC

Status: Laboratory Manager

Official Address: Aberdeen Scientific Services Laboratory, Old Aberdeen House, Dunbar Street, Aberdeen, AB24 3UJ

Telephone Number: (01224) 491648

Date Of Report: 17-October-2016

Issue Number: 1



1325

Certificate of Analysis

Non Potable Water Sample

Laboratory Reference: 10160392
Your Reference: SW6
For the attention of: P Lawrence
Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
URAN (2)(3)	Uranium (total as U)	6.80 µg/l
i4524tV	Vanadium (total, as V)	< 0.010 mg/l
i4524tZn	Zinc (total, as Zn)	< 0.01 mg/l
i4524_TH	Total Hardness (as CaCO ₃)	470 mg/l
i4524tCa	Calcium (total, as Ca)	151 mg/l
i4524tCr	Chromium (total, as Cr)	< 0.002 mg/l
i4524tFe	Iron (total, as Fe)	0.127 mg/l
i4524tK	Potassium (total, as K)	17.5 mg/l
i4524tMg	Magnesium (total, as Mg)	22.4 mg/l
i4524tMn	Manganese (total, as Mn)	0.117 mg/l
i4524tNa	Sodium (total, as Na)	84.7 mg/l

Signature:



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Status: Laboratory Manager

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Telephone Number: (01224) 491648

Date Of Report: 17-October-2016

Issue Number: 1



1325

Certificate of Analysis

Non Potable Water Sample

Laboratory Reference: 10160393
Your Reference: SW7
For the attention of: P Lawrence
Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
TEMPSAMP	Temperature on sampling	14.3 Celsius
PCB 153 (3)	PCB 153	< 0.002 µg/l
PCB 52 (3)	PCB 52	< 0.002 µg/l
PCB 101 (3)	PCB 101	< 0.002 µg/l
PCB 118 (3)	PCB 118	< 0.003 µg/l
PCB 138 (3)	PCB 138	< 0.002 µg/l
PCB 28 (3)	PCB 28	< 0.002 µg/l
PCB 180 (3)	PCB 180	< 0.003 µg/l
VOC 1 (3)	Chlorobenzene	< 1.0 µg/l
i4203a	pH	8.2
VOC 2 (3)	Trichloroethene	< 1.0 µg/l
i4204a	Conductivity	540 µS/cm
VOC 3 (3)	Tetrachloroethene	< 1.0 µg/l
ACIDHRB1 (3)	Dichloroprop	< 0.20 µg/l
MERCURY (3)	Mercury (Total, ultra-low level)	< 0.100 µg/l
CADMIUM (3)	Cadmium (Total, ultra-low level)	< 0.070 µg/l
CYANIDE (3)	Cyanide (Total, low level)	< 0.009 mg/l
PAH 4 (3)	Benzo (a) pyrene	< 0.04 µg/l
PHENOL 1 (3)	2,4-dimethylphenol	< 2 µg/l
SVOC 1 (2)(3)	3 & 4-methylphenol	< 2 µg/l
PAH 1 (2)(3)	Acenaphthene	< 0.04 µg/l
PAH 2 (3)	Acenaphthylene	< 0.04 µg/l
PAH 3 (3)	Anthracene	< 0.04 µg/l
ACIDHRB2 (3)	Bentazone	< 0.20 µg/l
VOC 4 (2)(3)	Benzene	< 1.0 µg/l

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For the attention of: P Lawrence
Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
PAH 5 (3)	Benzo (ghi) perylene	< 0.04 µg/l
PAH 6 (3)	Benzo (a) anthracene	< 0.04 µg/l
PAH 7 (3)	Benzo (b) fluoranthene	< 0.04 µg/l
PAH 8 (3)	Benzo (k) fluoranthene	< 0.04 µg/l
SVOC 2 (3)	Bis (2-ethylhexyl) phthalate	< 10 µg/l
PAH 9 (3)	Chrysene	< 0.04 µg/l
VOC 5 (3)	Cis-1,2-dichloroethene	< 1.0 µg/l
SVOC 3 (3)	Dibenz (a,h) anthracene	< 0.04 µg/l
VOC 6 (2)(3)	Ethyl benzene	< 1.0 µg/l
SVOC 4 (3)	Fluoranthene	< 0.04 µg/l
SVOC 5 (3)	Fluorene	< 0.04 µg/l
SVOC 6 (3)	Indeno (1,2,3-c,d) pyrene	< 0.04 µg/l
ACIDHRB3 (3)	Mecoprop	< 0.16 µg/l
VOC 7 (3)	MTBE	< 1.0 µg/l
VOC 8 (3)	Naphthalene	< 0.04 µg/l
i4512a	Suspended Solids	15 mg/l
SVOC 7 (3)	Pyrene	< 0.04 µg/l
VOC 9 (3)	m,p-xylene	< 1.0 µg/l
VOC 10 (3)	o-xylene	< 1.0 µg/l
i4102h	Chloride (as Cl)	25 mg/l
i4102l	Fluoride (as F)	< 0.15 mg/l
TON	Total Oxidised Nitrogen	6.8 mg/l
i4102i	Nitrate (as NO3)	7 mg/l
i4104a	Nitrite (as NO2)	< 0.1 mg/l
i4102j	Sulphate (as SO4)	29 mg/l

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Non Potable Water Sample

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Your Reference: SW7
For the attention of: P Lawrence
Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
i4520a	Ammonium (as NH ₄)	< 0.05 mg/l
i4524tSb	Antimony (total, as Sb)	< 0.005 mg/l
i4524tAs	Arsenic (total, as As)	< 0.003 mg/l
i4524tBa	Barium (total, as Ba)	0.04 mg/l
i4514f	BOD (with ATU)(seeded)	1 mg/l
i4514b	(2) Dissolved Oxygen	8.1 mg/l
BERYLLM	(3) Beryllium (total as Be)	< 2.1 µg/l
i4524tB	Boron (total, as B)	0.2 mg/l
i4521b	Total Organic Carbon (filtered)	50 mg/l
i4519a	Chemical Oxygen Demand (total)	91 mg/l
VOC 11	(3) Chloroethane	< 1.0 µg/l
i4524tCo	Cobalt (total, as Co)	< 0.002 mg/l
i4524tCu	Copper (total, as Cu)	0.012 mg/l
ACIDHRB4	(3) Fenoprop	< 0.20 µg/l
i4524tPb	Lead (total, as Pb)	< 0.002 mg/l
i4524tMo	Molybdenum (total, as Mo)	< 0.005 mg/l
i4524tNi	Nickel (total, as Ni)	< 0.005 mg/l
PAH 10	(2)(3) PAH (total)	< 0.040 µg/l
PAH 11	(3) Phenanthrene	< 0.04 µg/l
i4524tP	Phosphorus (total, as P)	0.063 mg/l
i4524tSe	Selenium (total, as Se)	< 0.005 mg/l
i4524tTi	Titanium (total, as Ti)	0.023 mg/l
TELL	(2)(3) Tellurium (total as Te)	< 0.38 µg/l
i4524tTl	Thallium (total, as Tl)	< 0.003 mg/l
i4510b	(3) Total Hydrocarbons (C6 to C40)	< 0.040 mg/l

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For the attention of: P Lawrence
Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
URAN (2)(3)	Uranium (total as U)	1.40 µg/l
i4524tV	Vanadium (total, as V)	< 0.010 mg/l
i4524tZn	Zinc (total, as Zn)	< 0.01 mg/l
i4524_TH	Total Hardness (as CaCO ₃)	257 mg/l
i4524tCa	Calcium (total, as Ca)	80.7 mg/l
i4524tCr	Chromium (total, as Cr)	< 0.002 mg/l
i4524tFe	Iron (total, as Fe)	1.13 mg/l
i4524tK	Potassium (total, as K)	9.0 mg/l
i4524tMg	Magnesium (total, as Mg)	13.4 mg/l
i4524tMn	Manganese (total, as Mn)	0.171 mg/l
i4524tNa	Sodium (total, as Na)	30.7 mg/l

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Certificate of Analysis

Non Potable Water Sample

Laboratory Reference: 10160394
Your Reference: SW8
For the attention of: P Lawrence
Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
TEMPSAMP	Temperature on sampling	13.8 Celsius
PCB 153 (3)	PCB 153	< 0.002 µg/l
PCB 52 (3)	PCB 52	< 0.002 µg/l
PCB 101 (3)	PCB 101	< 0.002 µg/l
PCB 118 (3)	PCB 118	< 0.003 µg/l
PCB 138 (3)	PCB 138	< 0.002 µg/l
PCB 28 (3)	PCB 28	< 0.002 µg/l
PCB 180 (3)	PCB 180	< 0.003 µg/l
VOC 1 (3)	Chlorobenzene	< 1.0 µg/l
i4203a	pH	8.3
VOC 2 (3)	Trichloroethene	< 1.0 µg/l
i4204a	Conductivity	780 µS/cm
VOC 3 (3)	Tetrachloroethene	< 1.0 µg/l
ACIDHRB1 (3)	Dichloroprop	< 0.20 µg/l
MERCURY (3)	Mercury (Total, ultra-low level)	< 0.100 µg/l
CADMIUM (3)	Cadmium (Total, ultra-low level)	< 0.070 µg/l
CYANIDE (3)	Cyanide (Total, low level)	< 0.009 mg/l
PAH 4 (3)	Benzo (a) pyrene	< 0.04 µg/l
PHENOL 1 (3)	2,4-dimethylphenol	< 2 µg/l
SVOC 1 (2)(3)	3 & 4-methylphenol	< 2 µg/l
PAH 1 (2)(3)	Acenaphthene	< 0.04 µg/l
PAH 2 (3)	Acenaphthylene	< 0.04 µg/l
PAH 3 (3)	Anthracene	< 0.04 µg/l
ACIDHRB2 (3)	Bentazone	< 0.20 µg/l
VOC 4 (2)(3)	Benzene	< 1.0 µg/l

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Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
PAH 5 (3)	Benzo (ghi) perylene	< 0.04 µg/l
PAH 6 (3)	Benzo (a) anthracene	< 0.04 µg/l
PAH 7 (3)	Benzo (b) fluoranthene	< 0.04 µg/l
PAH 8 (3)	Benzo (k) fluoranthene	< 0.04 µg/l
SVOC 2 (3)	Bis (2-ethylhexyl) phthalate	< 10 µg/l
PAH 9 (3)	Chrysene	< 0.04 µg/l
VOC 5 (3)	Cis-1,2-dichloroethene	< 1.0 µg/l
SVOC 3 (3)	Dibenz (a,h) anthracene	< 0.04 µg/l
VOC 6 (2)(3)	Ethyl benzene	< 1.0 µg/l
SVOC 4 (3)	Fluoranthene	< 0.04 µg/l
SVOC 5 (3)	Fluorene	< 0.04 µg/l
SVOC 6 (3)	Indeno (1,2,3-c,d) pyrene	< 0.04 µg/l
ACIDHRB3 (3)	Mecoprop	< 0.16 µg/l
VOC 7 (3)	MTBE	< 1.0 µg/l
VOC 8 (3)	Naphthalene	< 0.04 µg/l
i4512a	Suspended Solids	< 10 mg/l
SVOC 7 (3)	Pyrene	< 0.04 µg/l
VOC 9 (3)	m,p-xylene	< 1.0 µg/l
VOC 10 (3)	o-xylene	< 1.0 µg/l
i4102h	Chloride (as Cl)	39 mg/l
i4102l	Fluoride (as F)	< 0.15 mg/l
TON	Total Oxidised Nitrogen	8.5 mg/l
i4102i	Nitrate (as NO ₃)	9 mg/l
i4104a	Nitrite (as NO ₂)	< 0.1 mg/l
i4102j	Sulphate (as SO ₄)	27 mg/l

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Non Potable Water Sample

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Your Reference: SW8
For the attention of: P Lawrence
Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
i4520a	Ammonium (as NH ₄)	0.06 mg/l
i4524tSb	Antimony (total, as Sb)	< 0.005 mg/l
i4524tAs	Arsenic (total, as As)	< 0.003 mg/l
i4524tBa	Barium (total, as Ba)	0.04 mg/l
i4514f	BOD (with ATU)(seeded)	1 mg/l
i4514b	(2) Dissolved Oxygen	7.4 mg/l
BERYLLM	(3) Beryllium (total as Be)	< 2.1 µg/l
i4524tB	Boron (total, as B)	0.4 mg/l
i4521b	Total Organic Carbon (filtered)	53 mg/l
i4519a	Chemical Oxygen Demand (total)	120 mg/l
VOC 11	(3) Chloroethane	< 1.0 µg/l
i4524tCo	Cobalt (total, as Co)	< 0.002 mg/l
i4524tCu	Copper (total, as Cu)	< 0.010 mg/l
ACIDHRB4	(3) Fenoprop	< 0.20 µg/l
i4524tPb	Lead (total, as Pb)	0.003 mg/l
i4524tMo	Molybdenum (total, as Mo)	< 0.005 mg/l
i4524tNi	Nickel (total, as Ni)	< 0.005 mg/l
PAH 10	(2)(3) PAH (total)	< 0.040 µg/l
PAH 11	(3) Phenanthrene	< 0.04 µg/l
i4524tP	Phosphorus (total, as P)	< 0.050 mg/l
i4524tSe	Selenium (total, as Se)	< 0.005 mg/l
i4524tTi	Titanium (total, as Ti)	0.005 mg/l
TELL	(2)(3) Tellerium (total as Te)	< 0.38 µg/l
i4524tTl	Thallium (total, as Tl)	< 0.003 mg/l
i4510b	(3) Total Hydrocarbons (C6 to C40)	< 0.040 mg/l

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For the attention of: P Lawrence
Received From: Ness Landfill Site, Aberdeen City Council, 1st Floor St Nicholas House, Broad Street, Aberdeen
Received On: 13 September 2016
Sample Name: Surface water, Ness Landfill Site
Taken On: 13 September 2016

Results of Analysis

Method Code	Determination	Result
URAN (2)(3)	Uranium (total as U)	1.70 µg/l
i4524tV	Vanadium (total, as V)	< 0.010 mg/l
i4524tZn	Zinc (total, as Zn)	< 0.01 mg/l
i4524_TH	Total Hardness (as CaCO ₃)	375 mg/l
i4524tCa	Calcium (total, as Ca)	121 mg/l
i4524tCr	Chromium (total, as Cr)	< 0.002 mg/l
i4524tFe	Iron (total, as Fe)	0.532 mg/l
i4524tK	Potassium (total, as K)	12.7 mg/l
i4524tMg	Magnesium (total, as Mg)	17.9 mg/l
i4524tMn	Manganese (total, as Mn)	0.148 mg/l
i4524tNa	Sodium (total, as Na)	49.9 mg/l

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