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Lithgow City Council PO Box 19, 180 Mort Street Lithgow NSW 2790

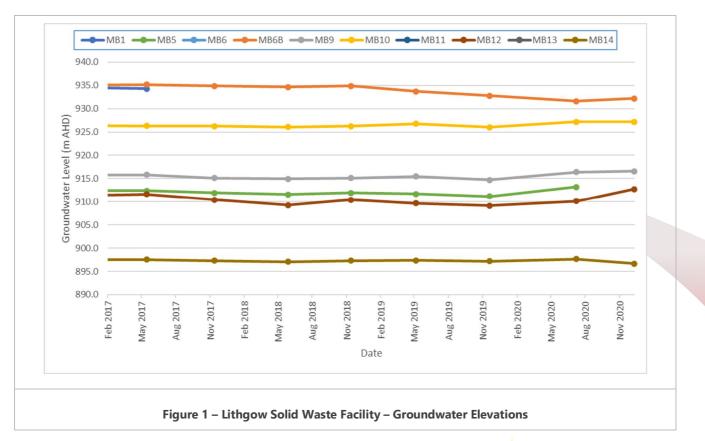
Attention: Nigel Campbell, Waste & Recycling Coordinator

ENVIRONMENTAL MONITORING OF LITHGOW SOLID WASTE FACILITY, UNDER ENVIRONMENT PROTECTION LICENCE 6004

Premise has completed scheduled groundwater and accumulated landfill gas monitoring at Lithgow Solid Waste Facility, located off Geordie Street, Lithgow on 11 December 2020. Leachate discharge monitoring from point LW1 was also conducted.

Groundwater Levels

Groundwater was gauged at five (5) groundwater monitoring wells across the site. Groundwater gauging data is included in **Table 1** (attached), and elevation trends are shown on **Figure 1**.





No groundwater was recorded in monitoring stations MB1, MB6, MB11 and MB13. Monitoring station MB5 was blocked below ground level and groundwater could not be gauged or sampled. Observations were as follows:

- Depths to groundwater ranged from 3.89 metres below ground level (mbgl) at MB14, to 14.85 mbgl at MB6B. Corrected groundwater elevations ranged from 896.68 metres Australian Height Datum (mAHD) at MB14, to 932.19 mAHD at MB6B.
- Inference of groundwater elevations, calculated from available survey data from installed groundwater monitoring wells, indicate a flow direction to the south-west.

Groundwater Quality

Groundwater samples were able to be collected from wells MB6B, MB9, MB10, MB12 and MB14. The monitoring well casing at location MB6B is bent at approximately 2.0 mbgl and was sampled by Hydrasleeve® sampling equipment, while other monitoring wells were sampled using bailers. Samples were couriered to SGS Laboratories in Alexandria, NSW, who are NATA accredited to perform the scheduled analysis. Results of analysis are included in **Table 2** (attached), and laboratory certificates have also been appended to this letter.

Groundwater quality has been assessed by comparison to criteria (where available) adopted from Australian and New Zealand Environment and Conservation Council (ANZECC) Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ) Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000 – Primary Industries: Water quality for irrigation and general water use.

- Laboratory measured pH ranged from 4.6 at MB12 to 7.0 at MB14. pH of groundwater at MB12 was confirmed by field probe measurement and was below the guideline range considered suitable for pumping, irrigation and stock watering (6.0 to 8.5 pH units).
- Electrical conductivity (EC) ranged from 110 μS/cm at piezometer MB10 to 1100 μS/cm at piezometer MB12.
- Total dissolved solids (TDS) ranged from 110 mg/L at MB10 to 880 mg/L at MB12. TDS concentrations were below the livestock watering 'loss of production' tolerance limit for the most susceptible livestock category, poultry (3000 mg/L ANZECC & ARMCANZ, 2000).
- The chemical oxygen demand (COD) of groundwater samples ranged from 10 mg/L at MB10, to 32 mg/L at MB6B.
- Total alkalinity in groundwater ranged from below the laboratory limit of reporting (LOR) of 5 mg/L at MB12 to 370 mg/L at MB9. Alkalinity of groundwater exceeded the guideline hardness value for potential fouling of waters (350 mg/L) at MB9.
- Groundwater chloride concentrations ranged from 11 mg/L at MB10 to 250 mg/L at MB12. All concentrations were below the guideline value for protection of moderately sensitive crops (3501mg/L).
- Fluoride concentrations in groundwater were all below the laboratory LOR of 0.1 mg/L, with the exception of MB9 which recorded a fluoride concentration of 0.11 mg/L. All concentrations were below the guideline value of 1 mg/L for long term irrigation use (up to 100 years).
- Sulfate concentrations in groundwater ranged from 2.4 mg/L at MB9 to 100 mg/L at MB12.
- Calcium concentrations ranged from 5.7 mg/L at MB10 to 99 mg/L at MB14.
- Magnesium concentrations ranged from 4.6 mg/L at MB10 to 32 mg/L at MB14.
- Potassium concentrations ranged from 2.1 mg/L at MB10 to 34 mg/L at MB9.



- Concentrations of sodium ranged from 7.2 mg/L at MB10 to 91 mg/L at MB12. Sodium concentrations were below the guideline level for irrigation to moderately sensitive crops (<230 mg/L).
- Ammonia concentrations in groundwater ranged from 0.02 mgN/L at MB10 to 13 mgN/L at MB9.
- Nitrate concentrations ranged from 0.032 mgN/L at MB6B to 0.52 mgN/L at MB10.
- Phosphorus concentrations in groundwater ranged from below the laboratory LOR of 0.02 mg/L at MB12 and MB14, to 0.18 mg/L at MB6B. Phosphorus concentrations at MB6B and MB10 were above the guideline value of 0.05 mg/L for long term irrigation use (up to 100 years).
- Aluminium concentrations in groundwater were recorded to range from below the laboratory LOR of 0.005 mg/L at MB6B, MB9, MB10 and MB14, to 2.2 mg/L at MB12. Aluminium concentrations in groundwater did not exceed the long-term (up to 100 years) irrigation guideline concentration of 5 mg/L.
- Hexavalent chromium concentrations were below the laboratory LOR of 0.004 mg/L. Total chromium concentrations in groundwater were recorded to range from below the laboratory LOR of 0.001 mg/L at MB 12 and MB14, to 0.003 mg/L at MB6B. Concentrations of total chromium were lower than the long-term (up to 100 years) irrigation guideline concentration of 0.1 mg/L.
- Iron concentrations ranged from below the laboratory LOR of 0.005 mg/L at MB14, to 36 mg/L at MB12. Iron concentrations at MB6B, MB9 and MB12 exceeded the long-term (up to 100 years) irrigation guideline concentration of 0.2 mg/L.
- Manganese concentrations ranged from 0.014 mg/L at MB10 to 4.0 mg/L at MB9. Manganese concentrations at locations MB6B, MB9 and MB12 exceeded the long-term (up to 100 years) irrigation guideline concentration of 0.2 mg/L.
- Total organic carbon (TOC) in groundwater ranged from 3.0 mg/L at MB10 to 5.8 mg/L at MB6B.
- Total phenols were at or below the laboratory LOR of 0.01 mg/L at all groundwater monitoring points.
- Organochlorine pesticides and organophosphorus pesticides were below respective laboratory LORs at all groundwater monitoring points.
- Total petroleum hydrocarbons (TPH) and total recoverable hydrocarbons (TRH) were below respective laboratory LORs at all groundwater monitoring points, with the exceptions of:
 - TPH C_{10} - C_{14} fraction and TRH > C_{10} - C_{16} fraction at MB9 (respectively 55 μ g/L and 76 μ g/L); and
 - TPH C₆ C₉ fraction and TRH C₆-C₁₀ fraction at MB12 (respectively 140 μ g/L and 150 μ g/L).

Leachate

The leachate sample collected from LW1 was couriered to SGS Laboratories in Alexandria, NSW, who are NATA accredited to perform the scheduled analysis. Results of analysis are included in **Table 3** (attached), and laboratory certificates have also been appended to this letter.

Leachate quality has been assessed by comparison to criteria (where available) adopted from Australian and New Zealand Environment and Conservation Council (ANZECC) Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ) Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000 – Primary Industries: Water quality for irrigation and general water use.

• Laboratory measured pH was recorded at 7.2, noted to be near-neutral.



- Total alkalinity was recorded at 240 mg/L, which was below the guideline hardness value for potential fouling of waters (350 mg/L).
- The recorded chloride concentration was 220 mg/L, and below the guideline value for protection of moderately sensitive crops (350 mg/L).
- The fluoride concentration of leachate was recorded to be 0.12 mg/L, and below the guideline value of 1 mg/L for long term irrigation use (up to 100 years).
- The leachate sulphate concentration was recorded to be 56 mg/L.
- Calcium in leachate was recorded to be 80 mg/L.
- Magnesium in leachate was recorded to be 30 mg/L.
- Potassium in leachate was recorded to be 48 mg/L.
- Sodium in leachate was recorded to be 110 mg/L. The sodium concentration was below the guideline level for irrigation to moderately sensitive crops (230 mg/L).
- Total organic carbon (TOC) was recorded at 6.4 mg/L.
- The ammonia concentration of leachate was recorded to be 0.06 mgN/L.
- The nitrate concentration of leachate was recorded to be 0.32 mgN/L.
- Iron in leachate was recorded to be 0.062 mg/L, and below the long term (up to 100 years) irrigation guideline concentration of 0.2 mg/L.
- Manganese in leachate was recorded to be 0.45 mg/L, and above the long term (up to 100 years) irrigation guideline concentration of 0.2 mg/L.
- Total phenolics in leachate were recorded at below the laboratory LOR of 0.01 mg/L.

Accumulated Landfill Gas Monitoring

Gas concentrations in buildings and sheds within the required monitoring distance of 250 metres of filled areas were all below the respective threshold concentration of 1.25 % (v/v) during the monthly monitoring rounds conducted in August 2020 to December 2020. Results of gas monitoring are included in **Table 4** (attached)



The next routine monitoring for groundwater, leachate and accumulated landfill gas is scheduled for May 2021. Surface water monitoring is required to take place any calendar month when a surface water discharge is recorded. Please do not hesitate to contact us with any questions or comments you may have regarding this report.

Yours sincerely

BRENDAN STUART Environmental Scientist

No. of Attachments - 4:

Environmental Monitoring Point Locations Table 1 – Groundwater Level Measurements Table 2 – Results of Laboratory Analyses (Groundwater) – December 2020 Table 3 – Results of Laboratory Analyses (Leachate) – December 2020 Table 4 – Accumulated Landfill Gas Monitoring SGS Laboratories Analytical Reports – December 2020

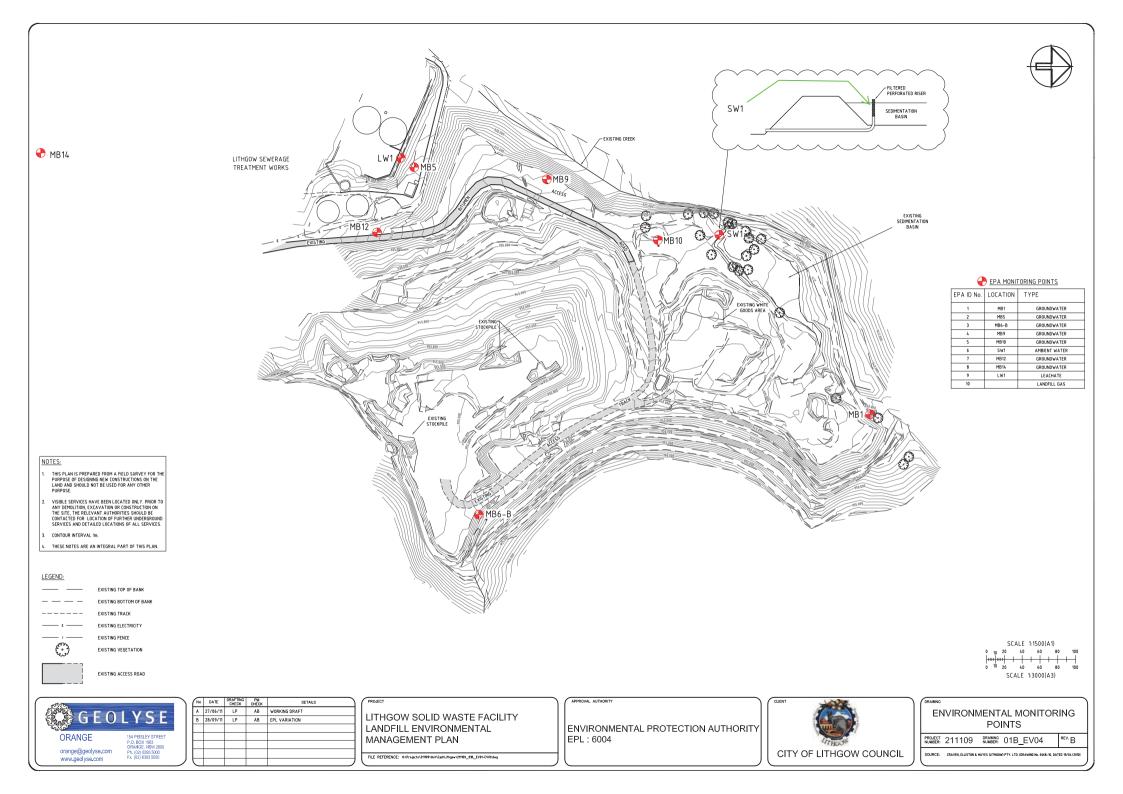




TABLE 1: LITHGOW SOLID WASTE FACILITY - GROUNDWATER LEVEL RESULTS

10-Dec-20

Ground Water Levels:

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Piezometer Details:

	Ground Elev (mAHD)	Stickup (m)	Elevation Top PVC (mAHD)	Date	Measured (m)	GWL (mAHD)	Well Depth (m)	Well Base (mAHD)	Water Column (m)
MB1	939.790	0.86	940.650	10/12/2020	NMWL	-	6.5	934.15	nil
MB5	914.940	0.80	915.740	10/12/2020	NMWL	-	9.8	905.94	nil
MB6	945.820	0.85	946.670	10/12/2020	NMWL	-	-	-	nil
MB6B	946.290	0.75	947.040	10/12/2020	14.85	932.19	19.3	927.74	4.45
MB9	928.260	0.69	928.950	10/12/2020	12.39	916.56	17.1	911.85	4.71
MB10	932.180	0.73	932.910	10/12/2020	5.71	927.20	13.7	919.21	7.99
MB11	915.010	0.67	915.680	10/12/2020	NMWL	-	17.9	897.82	nil
MB12	918.330	0.76	919.090	10/12/2020	6.35	912.74	22.3	896.84	15.90
MB13	914.980	0.70	915.680	10/12/2020	NMWL	-	39.4	876.28	nil
MB14	899.790	0.78	900.570	10/12/2020	3.89	896.68	17.7	882.87	13.81

Definitions:

Stickup:	Height of piezometer pipe above ground surface.
Ground Elev:	Actual elevation of ground at the piezometer relative to an arbitrary datum. All ground elevations are
	measured to the same datum, hence Piezo GWLs are relative to each other.
GWL:	Actual elevation of groundwater at the piezometer relative to an arbitrary datum.
Measured:	Depth of groundwater measured from the top of the piezometer pipe.

25 Oct-11 NMWL 3.20 912.44 NMWL 9.92 937.12 12.62 916.33 5.77 927.14 NMWL 8.69 910.40 NMWL 2.80 897 08-Feb.12 3.11 937.54 2.9 913.48 NMWL 7.42 939.22 11.66 917.39 5.51 927.08 6.87 908.81 8.77 910.32 6.89 908.79 2.48 897 24.Apr-12 NMWL 2.55 913.19 NMWL 7.47 939.57 12.10 916.85 6.78 927.13 NMWL 8.24 910.85 NMWL 2.67 897 30-Oct-12 NMWL 3.29 912.45 NMWL 14.64 932.40 13.33 916.52 6.19 926.72 6.83 908.85 8.90 910.99 NMWL 2.91 897 22-Apr-13 NMWL 3.44 912.80 NMWL 13.06 915.35 6.51 926.56 NMWL 8.09 910.99 NMWL		MB1		MB5		MB6		MB6B		MB9		MB10		MB11		MB12		MB13		MB14	
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13-Oct-15 NMWL 3.34 912.40 NMWL 12.18 934.86 13.30 915.65 6.30 926.61 NMWL 8.35 910.74 NMWL 3.06 897 15-May-17 6.36 934.30 3.37 912.38 NMWL 11.88 935.16 13.09 915.86 6.58 926.34 NMWL 7.45 911.64 NMWL 3.05 897 13-Nov-17 NMWL 3.09 915.95 13.84 915.11 6.63 926.28 NMWL 8.70 910.39 NMWL 3.09 897 13-Nov-18 NMWL 4.19 911.55 NMWL 12.15 934.89 13.84 915.11 6.63 926.28 NMWL 8.70 910.39 NMWL 3.09 897 13-Nov-18 NMWL 3.80 911.94 NMWL 12.15 934.89 13.84 915.11 6.63 926.28 NMWL 8.70 910.39 NMWL 3.00 897 13-Nov-18 NMWL 4.05 911.94 NMWL 12.15 934.89 13.84 915.11 <td>21-Oct-14</td> <td>NMWL</td> <td></td> <td>3.81</td> <td>911.93</td> <td>NMWL</td> <td></td> <td>11.41</td> <td>935.63</td> <td>13.13</td> <td>915.82</td> <td>6.01</td> <td>926.90</td> <td>NMWL</td> <td></td> <td>8.89</td> <td>910.20</td> <td>NMWL</td> <td></td> <td>2.97</td> <td>897.60</td>	21-Oct-14	NMWL		3.81	911.93	NMWL		11.41	935.63	13.13	915.82	6.01	926.90	NMWL		8.89	910.20	NMWL		2.97	897.60
15-May-17 6.36 934.30 3.37 912.38 NMWL 11.88 935.16 13.09 915.86 6.58 926.34 NMWL 7.45 911.64 NMWL 3.05 897 13-Nov-17 NMWL 3.80 911.94 NMWL 12.15 934.89 13.84 915.11 6.63 926.28 NMWL 8.70 910.39 NMWL 3.20 897 28-May18 NMWL 4.19 911.55 NMWL 12.38 934.60 13.84 915.11 6.63 926.28 NMWL 8.70 910.39 NMWL 3.50 897 13-Nov-18 NMWL 3.80 911.94 NMWL 12.15 934.89 13.84 915.11 6.63 926.28 NMWL 8.70 910.39 NMWL 3.20 897 13-Nov-18 NMWL 3.80 911.94 NMWL 12.15 934.89 13.84 915.11 6.63 926.28 NMWL 8.70 910.39 NMWL 3.20 897 06-May-19 NMWL 4.05 911.06 NMWL 13.21	21-Apr-15	NMWL		3.56	912.18	NMWL		14.98	932.06	13.19	915.76	6.26	926.65	NMWL		9.06	910.03	NMWL		3.27	897.30
13-Nov-17 NMWL 3.80 911.94 NMWL 12.15 934.89 13.84 915.11 6.63 926.28 NMWL 8.70 910.39 NMWL 3.29 897 29-May-18 NMWL 4.19 911.55 NMWL 12.38 934.66 13.99 914.96 6.83 926.08 NMWL 9.84 909.25 NMWL 3.50 897 13-Nov-18 NMWL 3.80 911.94 NMWL 12.15 934.89 13.84 915.11 6.63 926.28 NMWL 8.70 910.39 NMWL 3.29 897 13-Nov-18 NMWL 3.80 911.94 NMWL 12.15 934.89 13.84 915.11 6.63 926.28 NMWL 8.70 910.39 NMWL 3.29 897 0.6-May-19 NMWL 4.05 911.69 NMWL 13.31 933.73 13.48 915.47 6.13 926.78 NMWL 94.55 909.64 NMWL 3.20 897 <td>13-Oct-15</td> <td>NMWL</td> <td></td> <td>3.34</td> <td>912.40</td> <td>NMWL</td> <td></td> <td>12.18</td> <td>934.86</td> <td>13.30</td> <td>915.65</td> <td>6.30</td> <td>926.61</td> <td>NMWL</td> <td></td> <td>8.35</td> <td>910.74</td> <td>NMWL</td> <td></td> <td>3.06</td> <td>897.51</td>	13-Oct-15	NMWL		3.34	912.40	NMWL		12.18	934.86	13.30	915.65	6.30	926.61	NMWL		8.35	910.74	NMWL		3.06	897.51
29-May-18 NMWL 4.19 911.55 NMWL 12.38 934.66 13.99 914.96 6.83 926.08 NMWL 9.84 909.25 NMWL 3.50 897 13-Nov-18 NMWL 3.80 911.94 NMWL 12.15 934.89 13.84 915.11 6.63 926.28 NMWL 8.70 910.39 NMWL 3.29 897 06-May-19 NMWL 4.05 911.69 NMWL 13.31 933.73 13.48 915.47 6.13 926.78 NMWL 94.59 90.44 NMWL 3.20 897 19-Nov19 NMWL 4.58 911.16 NMWL 14.25 932.79 14.21 914.74 6.63 926.78 NMWL 9.45 90.44 NMWL 3.20 897 19-Nov19 NMWL 4.58 911.16 NMWL 13.25 932.79 14.21 914.74 6.68 926.76 NMWL 9.45 90.44 NMWL 3.20 897 08-Jui-20 NMWL 2.52 913.22 NMWL 15.40 931.64	15-May-17	6.36	934.30	3.37	912.38	NMWL		11.88	935.16	13.09	915.86	6.58	926.34	NMWL		7.45	911.64	NMWL		3.05	897.52
13-Nov-18 NMWL 3.80 911.94 NMWL 12.15 934.89 13.84 915.11 6.63 926.28 NMWL 8.70 910.39 NMWL 3.29 897 0.6-May-19 NMWL 4.05 911.96 NMWL 13.31 933.73 13.48 915.47 6.13 926.78 NMWL 9.45 909.64 NMWL 3.20 897 19.Nov-19 NMWL 4.58 911.61 NMWL 14.25 932.79 14.21 914.74 6.66 266.05 NMWL 9.95 909.64 NMWL 3.20 897 0.8-Jul-20 NMWL 2.52 913.22 NMWL 916.43 5.73 927.18 NMWL 8.97 90.12 NMWL 3.20 897 0.8-Jul-20 NMWL 2.52 913.22 NMWL 12.52 916.43 5.73 927.18 NMWL 8.97 91.012 NMWL 2.91 897	13-Nov-17	NMWL		3.80	911.94	NMWL		12.15	934.89	13.84	915.11	6.63	926.28	NMWL		8.70	910.39	NMWL		3.29	897.28
06-May-19 NMWL 4.05 911.69 NMWL 13.31 933.73 13.48 915.47 6.13 926.78 NMWL 9.45 909.64 NMWL 3.20 897 19-Nov-19 NMWL 4.58 911.16 NMWL 14.25 932.79 14.21 914.74 6.86 926.05 NMWL 9.95 909.14 NMWL 3.36 897 08-Jul-20 NMWL 2.52 913.22 NMWL 15.40 931.64 12.52 916.43 5.73 927.18 NMWL 8.97 910.12 NMWL 2.91 897	29-May-18	NMWL		4.19	911.55	NMWL		12.38	934.66	13.99	914.96	6.83	926.08	NMWL		9.84	909.25	NMWL		3.50	897.07
19-Nov-19 NMWL 4.58 911.16 NMWL 14.25 932.79 14.21 914.74 6.86 926.05 NMWL 9.95 909.14 NMWL 3.36 897 08-Jul-20 NMWL 2.52 913.22 NMWL 15.40 931.64 12.52 916.43 5.73 927.18 NMWL 8.97 910.12 NMWL 2.91 897	13-Nov-18	NMWL		3.80	911.94	NMWL		12.15	934.89	13.84	915.11	6.63	926.28	NMWL		8.70	910.39	NMWL		3.29	897.28
08-Jul-20 NMWL 2.52 913.22 NMWL 15.40 931.64 12.52 916.43 5.73 927.18 NMWL 8.97 910.12 NMWL 2.91 897	06-May-19	NMWL		4.05	911.69	NMWL		13.31	933.73	13.48	915.47	6.13	926.78	NMWL		9.45	909.64	NMWL		3.20	897.37
	19-Nov-19	NMWL		4.58	911.16	NMWL		14.25	932.79	14.21	914.74	6.86	926.05	NMWL		9.95	909.14	NMWL		3.36	897.21
10-Dec-20 NMWL NMWL NMWL 14.85 932.19 12.39 916.56 5.71 927.20 NMWL 6.35 912.74 NMWL 3.89 890	08-Jul-20	NMWL		2.52	913.22	NMWL		15.40	931.64	12.52	916.43	5.73	927.18	NMWL		8.97	910.12	NMWL		2.91	897.66
	10-Dec-20	NMWL		NMWL		NMWL		14.85	932.19	12.39	916.56	5.71	927.20	NMWL		6.35	912.74	NMWL		3.89	896.68

TABLE 2: LITHGOW SOLID WASTE FACILITY - RESULTS OF LABORATORY ANALYSIS DECEMBER 2020

GROUNDWATER



				Sample ID ample Date	MB6B	MB9 11/12/2020	MB10	MB12 11/12/2020	MB14 11/12/2020
Group	Analyte	LOR	Units	Criteria	PS	PS	PS	PS	PS
Physical Parameters	pH (Lab)	0	No unit	6.0 - 8.5	6	6.6	6.2	4.6	7
ingsicul futuricers	Electrical Conductivity (Lab)	2	μS/cm	4478	790	790	110	1100	760
	Total Dissolved Solids	10	mg/L	3000	550	390	110	880	530
	Chemical Oxygen Demand	10	mg/L	-	32	22	10	24	11
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	190	370	25	< 5	340
Anions	Chloride	1	mg/L	350	130	43	11	250	32
	Fluoride	0.1	mg/L	1	< 0.1	0.11	< 0.1	< 0.1	< 0.1
	Sulfate (SO4)	1	mg/L	-	17	2.4	8.8	100	43
Cations	Calcium (Ca)	0.1	mg/L	1000	40	66	5.7	36	99
	Magnesium (Mg)	0.1	mg/L	-	28	17	4.6	25	32
	Potassium (K)	0.2	mg/L	-	22	34	2.1	12	10
	Sodium (Na)	0.5	mg/L	230	59	34	7.2	91	18
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	5.8	5.3	3	5	3.1
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	0.72	13	0.02	4.8	0.22
	Nitrate (NO3) as N	0.005	mg/L	-	0.032	0.046	0.52	0.035	0.046
Trace Metals	Total Phosphorus	0.02	mg/L	0.05	0.18	0.05	0.06	< 0.02 < 0.001	< 0.02 < 0.001
Trace Metals	Chromium (Cr) Aluminium (Al)	0.001	mg/L	- 5	< 0.005	< 0.001	< 0.002	2.2	< 0.001
	Iron (Fe)	0.005	mg/L mg/L	0.2	21	0.003	0.067	36	< 0.005
	Manganese (Mn)	0.001	mg/L	0.2	1.5	4	0.014	1.8	0.083
	Hexavalent Chromium (Cr-VI)	0.001	mg/L	0.1	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Phenolics	Total Phenols	0.01	mg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
OC Pesticides	Aldrin	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Alpha BHC	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Alpha Chlordane	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Alpha Endosulfan	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Beta BHC	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Beta Endosulfan	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Delta BHC	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Dieldrin	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Endosulfan sulphate	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Endrin	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Endrin aldehyde	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Endrin ketone	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Heptachlor Heptachlor epoxide	0.1	μg/L μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Hexachlorobenzene (HCB)	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Lindane (gamma BHC)	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Methoxychlor	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	p,p'-DDD	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	p,p'-DDE	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	p,p'-DDT	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	o,p'-DDD	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	o,p'-DDT	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	o,p'-DDE	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Gamma Chlordane	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	trans-Nonachlor	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Isodrin	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Mirex	0.1	μg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
OP Pesticides	Azinphos-methyl	0.2	μg/L	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	Bromophos Ethyl	0.2	μg/L	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	Chlorpyrifos (Chlorpyrifos Ethyl)	0.2	μg/L	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	Diazinon (Dimpylate) Dichlorvos	0.5	μg/L	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Dimethoate	0.5	μg/L	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Ethion	0.5	μg/L μg/L	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Fenitrothion	0.2	μg/L	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	Malathion	0.2	μg/L	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	Parathion-ethyl (Parathion)	0.2	μg/L	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	Methidathion	0.5	μg/L	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Petroleum Hydrocarbons	TRH C6-C9	40	μg/L	-	< 40	< 40	< 40	140	< 40
	TRH C10-C14	50	μg/L	-	< 50	55	< 50	< 50	< 50
	TRH C15-C28	200	μg/L	-	< 200	< 200	< 200	< 200	< 200
	TRH C29-C36	200	μg/L	-	< 200	< 200	< 200	< 200	< 200
	TRH C37-C40	200	μg/L	-	< 200	< 200	< 200	< 200	< 200
Total Recoverable Hydrocarbons	TRH C6-C10	50	μg/L	-	< 50	< 50	< 50	150	< 50
	TRH C6-C10 minus BTEX (F1)	50	μg/L	-	< 50	< 50	< 50	150	< 50
	TRH >C10-C16	60	μg/L	-	< 60	76	< 60	< 60	< 60
	TRH >C10-C16 minus Naphthalene (F2)	60	μg/L	-	< 60	< 60	< 60	< 60	< 60
	TRH >C16-C34 (F3)	500	μg/L	-	< 500	< 500	< 500	< 500	< 500
	TRH >C34-C40 (F4)	500	μg/L	-	< 500	< 500	< 500	< 500	< 500
	TRH C10-C40	320	μg/L	-	< 320	< 320	< 320	< 320	< 320
BTEXN Analytes	Benzene (F0)	0.5	μg/L	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

mg/L milligrams per litre μg/L μS/cm

micrograms per litre microsiemens per centimetre limit of reporting

LOR PS

Criteria

primary sample Criteria adopted from Australian and New Zealand Environment and Conservation Council (ANZECC) Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ) Australian and New Zealand Guidelines for Fresh and Marine Water Quality -Diverse the device Whether with for four field the graduated and Marine Water Quality -¹Primary Industries: Water quality for irrigation and general water use¹, 2000 within criteria criteria exceeded

TABLE 3: LITHGOW SOLID WASTE FACILITY - RESULTS OF LABORATORY ANALYSISDECEMBER 2020

LEACHATE



				Sample ID	LW1
			S	ample Date	10/12/2020
Group	Analyte	LOR	Units	Criteria	PS
Physical Parameters	pH (Lab)	0	No unit	6.0 - 8.5	7.2
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	240
Anions	Chloride	1	mg/L	350	220
	Fluoride	0.1	mg/L	1	0.12
	Sulfate (SO4)	1	mg/L	-	56
Cations	Calcium (Ca)	0.1	mg/L	1000	80
	Magnesium (Mg)	0.1	mg/L	-	30
	Potassium (K)	0.2	mg/L	-	48
	Sodium (Na)	0.5	mg/L	230	110
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	6.4
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	0.06
	Nitrate (NO3) as N	0.005	mg/L	-	0.32
Trace Metals	Iron (Fe)	0.005	mg/L	0.2	0.062
	Manganese (Mn)	0.001	mg/L	0.2	0.45
Phenolics	Total Phenols	0.01	mg/L	-	< 0.01

mg/L μg/L	milligrams per litre micrograms per litre
μS/cm	microsiemens per centimetre
LOR	limit of reporting
PS	primary sample
Criteria	Criteria adopted from Australian and New Zealand Environment and Conservation Council (ANZECC) Agriculture and
	Resource Management Council of Australia and New Zealand (ARMCANZ) Australian and New Zealand Guidelines for
	Fresh and Marine Water Quality - 'Primary Industries: Water quality for irrigation and general water use', 2000

within criteria criteria exceeded

TABLE 4: LITHGOW SOLID WASTE FACILITY - ACCUMULATED LANDFILL GAS MONITORING METHANE (as %, v/v)



		Date	03/02/2020	11/03/2020	10/04/2020	18/05/2020	29/06/2020	08/07/2020	27/08/2020	01/09/2020	27/10/2020	27/11/2020	09/12/2020	13/01/2021
Location	LOR	Units												
Site Shed	0.005	%	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Weighbridge	0.005	%	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Office (STP)	0.005	%	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Green Shed (STP)	0.005	%	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Pump Room (STP)	0.005	%	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

LOR limit of reporting





Contact Client	Brendan Stuart PREMISE	Manager Laboratory	Huong Crawford SGS Alexandria Environmental
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Project	217500-Lithgow SWF	SGS Reference	SE214716 R0
Order Number	(Not specified)	Date Received	11 Dec 2020
Samples	6	Date Reported	21 Dec 2020

COMMENTS .

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

SIGNATORIES -

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SE214716 R0

		Sample Number Sample Matrix Sample Date	SE214716.001 Water 11 Dec 2020	SE214716.002 Water 11 Dec 2020	SE214716.003 Water 11 Dec 2020	SE214716.004 Water 11 Dec 2020
		Sample Name	MB6B	MB9	MB10	MB12
Desembles						
Parameter	Units	LOR				
TRH (Total Recoverable Hydrocarbons) in Water Met	hod: AN403 Tes	sted: 16/12/2020				
TRH C10-C14	µg/L	50	<50	55	<50	<50
TRH C15-C28	µg/L	200	<200	<200	<200	<200
TRH C29-C36	µg/L	200	<200	<200	<200	<200
TRH C37-C40	µg/L	200	<200	<200	<200	<200
TRH C10-C40	µg/L	320	<320	<320	<320	<320
TRH F Bands						
TRH >C10-C16	μg/L	60	<60	76	<60	<60
TRH >C10-C16 - Naphthalene (F2)	μg/L	60	<60	<60	<60	<60
TRH >C16-C34 (F3)	μg/L	500	<500	<500	<500	<500
TRH >C34-C40 (F4)	μg/L	500	<500	<500	<500	<500
Volatile Petroleum Hydrocarbons in Water Method: A	N433 Tested: 1	7/12/2020				
TRH C6-C10	µg/L	50	<50	<50	<50	150
TRH C6-C9	μg/L	40	<40	<30	<40	140
Surrogates	P3/-	0				
•	1					
d4-1,2-dichloroethane (Surrogate)	%	-	98	98	97	96
d8-toluene (Surrogate)	%	-	97	96	96	97
Bromofluorobenzene (Surrogate)	%	-	106	108	103	107
VPH F Bands	1					
VPH F Bands Benzene (F0)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
	μg/L μg/L	0.5	<0.5 <50	<0.5 <50	<0.5 <50	<0.5 150
Benzene (F0)	µg/L					
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/	μg/L /12/2020	50	<50	<50	<50	150
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB)	μg/L /12/2020 μg/L	0.1	<50	<50	<50	150 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Alpha BHC	μg/L /12/2020 μg/L μg/L	0.1	<50	<50 <0.1 <0.1	<50	150
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Alpha BHC Lindane (gamma BHC)	μg/L /12/2020 μg/L μg/L μg/L	0.1 0.1 0.1	<50 <0.1 <0.1 <0.1	<50 <0.1 <0.1 <0.1	<50 <0.1 <0.1	<0.1 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Alpha BHC	μg/L /12/2020 μg/L μg/L μg/L μg/L	0.1	<50 <0.1 <0.1	<50 <0.1 <0.1	<50 <0.1 <0.1 <0.1	<0.1 <0.1 <0.1 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Alpha BHC Lindane (gamma BHC) Heptachlor	μg/L (12/2020) μg/L μg/L μg/L μg/L μg/L μg/L	0.1 0.1 0.1 0.1 0.1	<50 <0.1 <0.1 <0.1 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1	<50 <0.1 <0.1 <0.1 <0.1	<0.1 <0.1 <0.1 <0.1 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Alpha BHC Lindane (gamma BHC) Heptachlor Aldrin Beta BHC	μg/L (12/2020) μg/L μg/L μg/L μg/L μg/L μg/L μg/L	50 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	150 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Alpha BHC Lindane (gamma BHC) Heptachlor Aldrin	μg/L (12/2020) μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	50 0.1 0.1 0.1 0.1 0.1 0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	150 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Alpha BHC Lindane (gamma BHC) Heptachlor Aldrin Beta BHC Delta BHC	μg/L (12/2020) μg/L μg/L μg/L μg/L μg/L μg/L μg/L	50 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	150 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Alpha BHC Lindane (gamma BHC) Heptachlor Aldrin Beta BHC Delta BHC Heptachlor epoxide	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	50 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	150 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Alpha BHC Lindane (gamma BHC) Heptachlor Aldrin Beta BHC Delta BHC Heptachlor epoxide o,p'-DDE	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	50 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	150 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Alpha BHC Lindane (gamma BHC) Heptachlor Aldrin Beta BHC Delta BHC Heptachlor epoxide o,p'-DDE Alpha Endosulfan	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	50 0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	150 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Alpha BHC Lindane (gamma BHC) Heptachlor Aldrin Beta BHC Delta BHC Heptachlor epoxide o,p'-DDE Alpha Endosulfan Gamma Chlordane	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	50 0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	150 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Alpha BHC Lindane (gamma BHC) Heptachlor Aldrin Beta BHC Delta BHC Heptachlor epoxide o,p'-DDE Alpha Endosulfan Gamma Chlordane Alpha Chlordane	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	50 0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	150 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Alpha BHC Lindane (gamma BHC) Heptachlor Aldrin Beta BHC Delta BHC Heptachlor epoxide o,p'-DDE Alpha Endosulfan Gamma Chlordane Iapha Chlordane trans-Nonachlor	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	50 0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	150 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Alpha BHC Lindane (gamma BHC) Heptachlor Aldrin Beta BHC Delta BHC Heptachlor epoxide o,p'-DDE Alpha Endosulfan Gamma Chlordane Alpha Chlordane trans-Nonachlor p,p'-DDE	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	50 0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	150 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Alpha BHC Lindane (gamma BHC) Heptachlor Aldrin Beta BHC Delta BHC Heptachlor epoxide o,p'-DDE Alpha Endosulfan Gamma Chlordane trans-Nonachlor p,p'-DDE Dieldrin	μg/L μg/L	50 0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	150 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Alpha BHC Lindane (gamma BHC) Heptachlor Aldrin Beta BHC Delta BHC Delta BHC Heptachlor epoxide o,p'-DDE Alpha Endosulfan Gamma Chlordane Alpha Chlordane trans-Nonachlor p,p'-DDE Dieldrin Endrin	μg/L μg/L	50 0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	150 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Tested: 16/ Alpha BHC Indane (gamma BHC) Indane (gamma BHC) Heptachlor Indane (gamma BHC) Indane (gamma BHC) Beta BHC Indane (gamma BHC) Indane (gamma BHC) Delta BHC Indane (gamma BHC) Indane (gamma BHC) Alpha Chordane Indane (gamma BHC) Indane (gamma BHC) Alpha Chlordane Indane (gamma Chlordane Indane (gamma Chlordane Alpha Endosulfan Indane (gamma Chlordane Indane (gamma Chlordane Indane (gamma Chlordane Itrans-Nonachlor Indane (gamma Chlordane Indane (gamma Chlordane Indane (gamma Chlordane Indane (gamma Chlordane Dieldrin Indane (gamma Chlordane Indane (gamma Chlorda	μg/L μg/L	50 0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	150 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Tested: 16/ Alpha BHC Indane (gamma BHC) Indane (gamma BHC) Heptachlor Indane (gamma BHC) Indane (gamma BHC) Delta BHC Indane (gamma BHC) Indane (gamma BHC) Jobita BHC Indane (gamma BHC) Indane (gamma BHC) Delta BHC Indane (gamma BHC) Indane (gamma BHC) Alpha Chlordane Indane (gamma Chlordane Indane (gamma Chlordane Alpha Endosulfan Indane (gamma Chlordane Indane (gamma Chlordane Indane (gamma Chlordane Jobita Chlordane Indane (gamma Chlordane Indane (gamma Chlordane Indane (gamma Chlordane Indane (gamma Chlordane Dieldrin Indane (gamma Chlordane Indane (gamma Chlordane<	μg/L μg/L	50 0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	150 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Image: Comparison of the state of t	μg/L μg/L	50 0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	150 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Tested: 16/ Alpha BHC Indane (gamma BHC) Indane (gamma BHC) Heptachlor Indane (gamma BHC) Indane (gamma BHC) Beta BHC Indane (gamma BHC) Indane (gamma BHC) Delta BHC Indane (gamma BHC) Indane (gamma BHC) Alpha Chlordane Indane (gamma Chlordane Indane (gamma Chlordane Indane (gamma Chlordane Alpha Endosulfan Indane (gamma Chlordane	μg/L μg/L	50 0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	<50 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	150 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Image: Comparison of the state of	μg/L μg/L	50 0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	<50 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	150 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Tested: 16/ Alpha BHC Endosulfan Endosulfan Lindane (gamma BHC) Heytachlor Image: Comparison of the state of the st	μg/L μg/L	50 0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	<50 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	150 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Tested: 16/ Alpha BHC Indam (gamma BHC) Indam (gamma BHC) Heptachlor Indam (gamma BHC) Indam (gamma BHC) Beta BHC Indam (gamma BHC) Indam (gamma BHC) Delta BHC Indam (gamma BHC) Indam (gamma BHC) Alpha Endo Indam (gamma BHC) Indam (gamma BHC) Alpha Chlordane Indam (gamma Chlordane Indam (gamma Chlordane Alpha Endosulfan Indam (gamma Chlordane Indam (gamma Chlordane Itans-Nonachlor Indam (gamma Chlordane Indam (gamma Chlordane Indam (gamma Chlordane Itans-Nonachlor Indam (gamma Chlordane Indam (gamma Chlordane Indam (gamma Chlordane Indam (gamma Chlordane Itans-Nonachlor Indam (gamma Chlordane Indam (gamma Chlordane Indam (gamma Chlordane Indam (gamma Chlordane Itans-Nonachlor Indam (gamma Chlordane Indam (gamma Chlordane Indam (gamma Chlordane Indam (gamma Chlordane Itans-Nonachlor Indam (gamma Ch	μg/L μg/L	50 0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	<50 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	150 <0.1
Benzene (F0) TRH C6-C10 minus BTEX (F1) OC Pesticides in Water Method: AN420 Tested: 16/ Hexachlorobenzene (HCB) Image: Comparison of the state of t	μg/L μg/L	50 0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	<50 <0.1	<50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	150 <0.1



SE214716 R0

		Sample Number Sample Matrix Sample Date Sample Name	SE214716.001 Water 11 Dec 2020 MB6B	SE214716.002 Water 11 Dec 2020 MB9	SE214716.003 Water 11 Dec 2020 MB10	SE214716.004 Water 11 Dec 2020 MB12
Parameter	Units	LOR				
OC Pesticides in Water Method: AN420 Tested: 16 Surrogates	/12/2020 (contin	nued)				
Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	77	65	57	50
OP Pesticides in Water Method: AN420 Tested: 16						
Dichlorvos	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Malathion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	μg/L	0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	μg/L	0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	μg/L	0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Ethion	μg/L	0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl	μg/L	0.2	<0.2	<0.2	<0.2	<0.2
Surrogates		· · ·				
2-fluorobiphenyl (Surrogate)	%	-	56	46	44	46
d14-p-terphenyl (Surrogate)	%	-	80	80	68	74

Total Phenolics in Water Method: AN289 Tested: 14/12/2020

Total Phenols	mg/L	0.01	<0.01	<0.01	<0.01	<0.01

Anions by Ion Chromatography in Water Method: AN245 Tested: 15/12/2020

250	0.52	0.046	0.032	0.005	mg/L	Nitrate Nitrogen, NO3-N
	11	43	130	1	mg/L	Chloride
100	8.8	2.4	17	1	mg/L	Sulfate, SO4
<0.10	<0.10	0.11	<0.10	0.1	mg/L	Fluoride
			2020	ted: 14/12	Method: AN291 Test	Ammonia Nitrogen by Discrete Analyser (Aquakem)
4.8	0.02	13	0.72	0.01	ma/l	Ammonia Nitrogen, NH ₂ as N
	 0.02	13	0.72	ted: 14/12	-	Ammonia Nitrogen by Discrete Analyser (Aquakem) I Ammonia Nitrogen, NH₂ as N I



SE214716 R0

		Sample Number Sample Matrix Sample Date Sample Name	SE214716.001 Water 11 Dec 2020 MB6B	SE214716.002 Water 11 Dec 2020 MB9	SE214716.003 Water 11 Dec 2020 MB10	SE214716.004 Water 11 Dec 2020 MB12
Parameter	Units	LOR				
Alkalinity Method: AN135 Tested: 14/12/2020						
Total Alkalinity as CaCO3	mg/L	5	190	370	25	<5
Total Phosphorus by Kjeldahl Digestion DA in Water	Method: AN279//	AN293(Sydney on	lly) Tested: 15/	12/2020		
Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	0.18	0.05	0.06	<0.02
pH in water Method: AN101 Tested: 14/12/2020	1					
Conductivity and TDS by Calculation - Water Method	No unit	d: 14/12/2020	6.0	6.6	6.2	4.6
·		d: 14/12/2020	6.0 790	6.6 790	6.2	4.6
Conductivity and TDS by Calculation - Water Method Conductivity @ 25 C Forms of Carbon Method: AN190 Tested: 15/12/202	: AN106 Tester µS/cm 20	2	790	790	110	1100
Conductivity and TDS by Calculation - Water Method	: AN106 Tester					
Conductivity and TDS by Calculation - Water Method Conductivity @ 25 C Forms of Carbon Method: AN190 Tested: 15/12/202	: AN106 Tester μS/cm 20 mg/L	2	790	790	110	1100



SE214716 R0

		Sample Number Sample Matrix Sample Date Sample Name	SE214716.001 Water 11 Dec 2020 MB6B	SE214716.002 Water 11 Dec 2020 MB9	SE214716.003 Water 11 Dec 2020 MB10	SE214716.004 Water 11 Dec 2020 MB12			
Parameter	Units	LOR							
Total Dissolved Solids (TDS) in water Method: AN113 Tested: 14/12/2020									
Total Dissolved Solids Dried at 175-185°C	mg/L	10	550	390	110	880			
Hexavalent Chromium in water by Discrete Analyser	Method: AN283 1	Cested: 14/12/20	<0.004	<0.004	<0.004	<0.004			
	ing/L	0.004	0.004	0.004	0.004				
Metals in Water (Dissolved) by ICPOES Method: AN320 Tested: 14/12/2020									
Metals in Water (Dissolved) by ICPOES Method: AN3	20 Tested: 14/12	/2020							
Metals in Water (Dissolved) by ICPOES Method: AN3 Calcium, Ca	20 Tested: 14/12/ mg/L	0.1	40	66	5.7	36			
			40 28	66 17	5.7	36 25			
Calcium, Ca	mg/L	0.1							
Calcium, Ca Magnesium, Mg	mg/L mg/L	0.1	28	17	4.6	25			
Calcium, Ca Magnesium, Mg Potassium, K	mg/L mg/L mg/L mg/L	0.1 0.1 0.2 0.5	28 22	17 34	4.6 2.1	25 12			
Calcium, Ca Magnesium, Mg Potassium, K Sodium, Na	mg/L mg/L mg/L mg/L	0.1 0.1 0.2 0.5	28 22	17 34	4.6 2.1	25 12			
Calcium, Ca Magnesium, Mg Potassium, K Sodium, Na Trace Metals (Dissolved) in Water by ICPMS Method:	mg/L mg/L mg/L mg/L AN318 Tested: 1	0.1 0.1 0.2 0.5 4/12/2020	28 22 59	17 34 34	4.6 2.1 7.2	25 12 91			
Calcium, Ca Magnesium, Mg Potassium, K Sodium, Na Trace Metals (Dissolved) in Water by ICPMS Method: Aluminium, Al	mg/L mg/L mg/L M318 Tested: 1 μg/L	0.1 0.1 0.2 0.5 4/12/2020 5	28 22 59 <5	17 34 34 <5	4.6 2.1 7.2	25 12 91 2200			
Calcium, Ca Magnesium, Mg Potassium, K Sodium, Na Trace Metals (Dissolved) in Water by ICPMS Method: Aluminium, Al Iron, Fe	mg/L mg/L mg/L M318 Tested: 1 μg/L μg/L μg/L	0.1 0.1 0.2 0.5 4/12/2020 5 5 5	28 22 59 <5 21000	17 34 34 <5 290	4.6 2.1 7.2 <5 67	25 12 91 2200 36000			



Sample Number SE214716.005 SE214716.006

SE214716 R0

		Sample Matrix Sample Date Sample Name	Water 11 Dec 2020 MB14	Water 10 Dec 2020 LW1
Parameter	Units	LOR		
TRH (Total Recoverable Hydrocarbons) in Water M	lethod: AN403 Tested	1: 16/12/2020		
TRH C10-C14	µg/L	50	<50	-
TRH C15-C28	µg/L	200	<200	-
TRH C29-C36	μg/L	200	<200	-
TRH C37-C40	µg/L	200	<200	-
TRH C10-C40	µg/L	320	<320	-
TRH F Bands				
TRH >C10-C16	µg/L	60	<60	-
TRH >C10-C16 - Naphthalene (F2)	μg/L	60	<60	-
TRH >C16-C34 (F3)	μg/L	500	<500	-
TRH >C34-C40 (F4)	µg/L	500	<500	-

Volatile Petroleum Hydrocarbons in Water Method: AN433 Tested: 17/12/2020

TRH C6-C10	μg/L	50	<50	-
TRH C6-C9	μg/L	40	<40	-
Surrogates				

d4-1,2-dichloroethane (Surrogate)	%	-	98	-
d8-toluene (Surrogate)	%	-	97	-
Bromofluorobenzene (Surrogate)	%	-	105	-

VPH F Bands

Benzene (F0)	μg/L	0.5	<0.5	-
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	-

OC Pesticides in Water Method: AN420 Tested: 16/12/2020

Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	-
Alpha BHC	µg/L	0.1	<0.1	-
Lindane (gamma BHC)	µg/L	0.1	<0.1	-
Heptachlor	µg/L	0.1	<0.1	-
Aldrin	µg/L	0.1	<0.1	-
Beta BHC	µg/L	0.1	<0.1	-
Delta BHC	µg/L	0.1	<0.1	-
Heptachlor epoxide	μg/L	0.1	<0.1	-
o,p'-DDE	µg/L	0.1	<0.1	-
Alpha Endosulfan	µg/L	0.1	<0.1	-
Gamma Chlordane	µg/L	0.1	<0.1	-
Alpha Chlordane	µg/L	0.1	<0.1	-
trans-Nonachlor	μg/L	0.1	<0.1	-
p,p'-DDE	µg/L	0.1	<0.1	-
Dieldrin	µg/L	0.1	<0.1	-
Endrin	µg/L	0.1	<0.1	-
o,p'-DDD	µg/L	0.1	<0.1	-
o,p'-DDT	μg/L	0.1	<0.1	-
Beta Endosulfan	µg/L	0.1	<0.1	-
p,p'-DDD	µg/L	0.1	<0.1	-
p,p'-DDT	µg/L	0.1	<0.1	-
Endosulfan sulphate	μg/L	0.1	<0.1	-
Endrin aldehyde	μg/L	0.1	<0.1	-
Methoxychlor	µg/L	0.1	<0.1	-
Endrin ketone	μg/L	0.1	<0.1	-
Isodrin	μg/L	0.1	<0.1	-
Mirex	μg/L	0.1	<0.1	-



SE214716 R0

				Sa	ple Numbe mple Matri Sample Dat ample Nam	x Water e 11 Dec 2020	SE214716.006 Water 10 Dec 2020 LW1
Parameter				Units	LOR		
OC Pesticides in Water	Method: AN420	Tested: 16/	12/2020	(continued)			
Surrogates							
Tetrachloro-m-xylene (TCMX) (Sur	rogate)			%	-	46	-

OP Pesticides in Water Method: AN420 Tested: 16/12/2020

Dichlorvos	µg/L	0.5	<0.5	-
Dimethoate	µg/L	0.5	<0.5	-
Diazinon (Dimpylate)	µg/L	0.5	<0.5	-
Fenitrothion	µg/L	0.2	<0.2	-
Malathion	µg/L	0.2	<0.2	-
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	-
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	-
Bromophos Ethyl	µg/L	0.2	<0.2	-
Methidathion	µg/L	0.5	<0.5	-
Ethion	µg/L	0.2	<0.2	-
Azinphos-methyl	μg/L	0.2	<0.2	-

Surrogates

2-fluorobiphenyl (Surrogate)	%	-	46	-		
d14-p-terphenyl (Surrogate)	%	-	72	-		

Total Phenolics in Water Method: AN289 Tested: 14/12/2020

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Anions by Ion Chromatography in Water Method: AN245 Tested: 15/12/2020

Nitrate Nitrogen, NO3-N	mg/L	0.005	0.046	0.32
Chloride	mg/L	1	32	220
Sulfate, SO4	mg/L	1	43	56
Fluoride	mg/L	0.1	<0.10	0.12

Ammonia Nitrogen by Discrete Analyser (Aquakem) Method: AN291 Tested: 14/12/2020

Ammonia Nitrogen, NH₃ as N	mg/L	0.01	0.22	0.06
	-			



SE214716 R0

	Sa	nple Number ample Matrix Sample Date ample Name	SE214716.005 Water 11 Dec 2020 MB14	SE214716.006 Water 10 Dec 2020 LW1
Parameter	Units	LOR		
Alkalinity Method: AN135 Tested: 14/12/2020				
Total Alkalinity as CaCO3	mg/L	5	340	240
Total Phosphorus by Kjeldahl Digestion DA in Water	Method: AN279/AN293	3(Sydney or	ıly) Tested: 15/	12/2020
Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	<0.02	-
pH in water Method: AN101 Tested: 14/12/2020	No unit	-	7.0	7.2
Conductivity and TDS by Calculation - Water Method	: AN106 Tested: 14/	12/2020		
Conductivity @ 25 C	µS/cm	2	760	-
Forms of Carbon Method: AN190 Tested: 15/12/202	20			
Total Organic Carbon as NPOC	mg/L	0.2	3.1	6.4
COD in Water Method: AN179/AN181 Tested: 14/12	/2020			



SE214716 R0

	S	mple Number ample Matrix Sample Date Sample Name	SE214716.005 Water 11 Dec 2020 MB14	SE214716.006 Water 10 Dec 2020 LW1
Parameter	Units	LOR		
Total Dissolved Solids (TDS) in water Method: AN113	Tested: 14/12/2020)		
Total Dissolved Solids Dried at 175-185°C	mg/L	10	530	-
Hexavalent Chromium in water by Discrete Analyser	Method: AN283 Tes	sted: 14/12/2	020	

Hexavalent Chromium, Cr6+ mg/L 0.004 <0.004</th>

Metals in Water (Dissolved) by ICPOES Method: AN320 Tested: 14/12/2020

Calcium, Ca	mg/L	0.1	99	80
Magnesium, Mg	mg/L	0.1	32	30
Potassium, K	mg/L	0.2	10	48
Sodium, Na	mg/L	0.5	18	110

Trace Metals (Dissolved) in Water by ICPMS Method: AN318 Tested: 14/12/2020

Aluminium, Al	μg/L	5	<5	-
Iron, Fe	µg/L	5	<5	62
Manganese, Mn	µg/L	1	83	450

Trace Metals (Total) in Water by ICPMS Method: AN022/AN318 Tested: 14/12/2020

Total Chromium	µg/L	1	<1	-



LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample. DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : the absolute difference of the two results divided by the average of the two results as a percentage. Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

Alkalinity Method: ME-(AU)-[ENV]AN135

Parameter	QC	Units	LOR	MB	DUP %RPD	LCS
	Reference					%Recovery
Total Alkalinity as CaCO3	LB215525	mg/L	5	<5	0 - 2%	115%

Ammonia Nitrogen by Discrete Analyser (Aquakem) Method: ME-(AU)-[ENV]AN291

Parameter	QC	Units	LOR	MB	DUP %RPD	LCS	MS
	Reference					%Recovery	%Recovery
Ammonia Nitrogen, NH ₃ as N	LB215568	mg/L	0.01	<0.01	0 - 1%	94%	99%

Anions by Ion Chromatography in Water Method: ME-(AU)-[ENV]AN245

Parameter	QC	Units	LOR	MB	DUP %RPD	LCS
	Reference					%Recovery
Nitrate Nitrogen, NO3-N	LB215629	mg/L	0.005	<0.005	0%	89%
Chloride	LB215629	mg/L	1	<0.05		90%
Sulfate, SO4	LB215629	mg/L	1	<1.0	2%	89%
Fluoride	LB215629	mg/L	0.1	<0.10		97%

COD in Water Method: ME-(AU)-[ENV]AN179/AN181

Parameter	QC	Units	LOR	MB	DUP %RPD	LCS
	Reference					%Recovery
Chemical Oxygen Demand	LB215565	mg/L	10	<10	1 - 11%	99%

Conductivity and TDS by Calculation - Water Method: ME-(AU)-[ENV]AN106

Parameter	QC	Units	LOR	MB	DUP %RPD	LCS
	Reference					%Recovery
Conductivity @ 25 C	LB215508	µS/cm	2	<2	0%	102%

Forms of Carbon Method: ME-(AU)-[ENV]AN190

P	Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
	Total Organic Carbon as NPOC	LB215606	mg/L	0.2	<0.2	0 - 2%	92%	93%



LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample. DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : the absolute difference of the two results divided by the average of the two results as a percentage. Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

Hexavalent Chromium in water by Discrete Analyser Method: ME-(AU)-[ENV]AN283

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Hexavalent Chromium, Cr6+	LB215577	mg/L	0.004	<0.004	0%	95%

Metals in Water (Dissolved) by ICPOES Method: ME-(AU)-[ENV]AN320

Parameter	QC	Units	LOR	MB	DUP %RPD	LCS	MS
	Reference					%Recovery	%Recovery
Calcium, Ca	LB215517	mg/L	0.1	<0.1	0%	101%	104%
Magnesium, Mg	LB215517	mg/L	0.1	<0.1		97%	
Potassium, K	LB215517	mg/L	0.2	<0.2		93%	
Sodium, Na	LB215517	mg/L	0.5	<0.5		99%	

OC Pesticides in Water Method: ME-(AU)-[ENV]AN420

Parameter	QC	Units	LOR	MB	DUP %RPD	LCS
Hexachlorobenzene (HCB)	Reference LB215737	µg/L	0.1	<0.1	0%	%Recovery NA
Alpha BHC			0.1	<0.1	0%	NA
-	LB215737	µg/L	-	-		
Lindane (gamma BHC)	LB215737	µg/L	0.1	<0.1	0%	NA
Heptachlor	LB215737	µg/L	0.1	<0.1	0%	105%
Aldrin	LB215737	µg/L	0.1	<0.1	0%	105%
Beta BHC	LB215737	µg/L	0.1	<0.1	0%	NA
Delta BHC	LB215737	µg/L	0.1	<0.1	0%	105%
Heptachlor epoxide	LB215737	µg/L	0.1	<0.1	0%	NA
o,p'-DDE	LB215737	µg/L	0.1	<0.1	0%	NA
Alpha Endosulfan	LB215737	µg/L	0.1	<0.1	0%	NA
Gamma Chlordane	LB215737	μg/L	0.1	<0.1	0%	NA
Alpha Chlordane	LB215737	µg/L	0.1	<0.1	0%	NA
trans-Nonachlor	LB215737	µg/L	0.1	<0.1	0%	NA
p,p'-DDE	LB215737	µg/L	0.1	<0.1	0%	NA
Dieldrin	LB215737	µg/L	0.1	<0.1	0%	105%
Endrin	LB215737	µg/L	0.1	<0.1	0%	103%
o,p'-DDD	LB215737	µg/L	0.1	<0.1	0%	NA
o,p'-DDT	LB215737	µg/L	0.1	<0.1	0%	NA
Beta Endosulfan	LB215737	μg/L	0.1	<0.1	0%	NA
p,p'-DDD	LB215737	µg/L	0.1	<0.1	0%	NA
p,p'-DDT	LB215737	µg/L	0.1	<0.1	0%	104%
Endosulfan sulphate	LB215737	µg/L	0.1	<0.1	0%	NA
Endrin aldehyde	LB215737	µg/L	0.1	<0.1	0%	NA
Methoxychlor	LB215737	µg/L	0.1	<0.1	0%	NA
Endrin ketone	LB215737	µg/L	0.1	<0.1	0%	NA
Isodrin	LB215737	μg/L	0.1	<0.1	0%	NA
Mirex	LB215737	µg/L	0.1	<0.1	0%	NA

Surrogates						
Parameter	QC	Units	LOR	MB	DUP %RPD	LCS
	Reference					%Recovery
Tetrachloro-m-xylene (TCMX) (Surrogate)	LB215737	%	-	104%	22%	96%



LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample. DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

OP Pesticides in Water Method: ME-(AU)-[ENV]AN420

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Dichlorvos	LB215737	µg/L	0.5	<0.5	0%	93%
Dimethoate	LB215737	µg/L	0.5	<0.5	0%	NA
Diazinon (Dimpylate)	LB215737	µg/L	0.5	<0.5	0%	98%
Fenitrothion	LB215737	µg/L	0.2	<0.2	0%	NA
Malathion	LB215737	µg/L	0.2	<0.2	0%	NA
Chlorpyrifos (Chlorpyrifos Ethyl)	LB215737	µg/L	0.2	<0.2	0%	92%
Parathion-ethyl (Parathion)	LB215737	µg/L	0.2	<0.2	0%	NA
Bromophos Ethyl	LB215737	µg/L	0.2	<0.2	0%	NA
Methidathion	LB215737	µg/L	0.5	<0.5	0%	NA
Ethion	LB215737	µg/L	0.2	<0.2	0%	91%
Azinphos-methyl	LB215737	µg/L	0.2	<0.2	0%	NA

Surrogates						
Parameter	QC	Units	LOR	MB	DUP %RPD	LCS
	Reference					%Recovery
2-fluorobiphenyl (Surrogate)	LB215737	%	-	68%	17%	74%
d14-p-terphenyl (Surrogate)	LB215737	%	-	92%	16%	90%

pH in water Method: ME-(AU)-[ENV]AN101

Parameter	QC	Units	LOR	DUP %RPD	LCS
	Reference				%Recovery
pH**	LB215508	No unit	-	1%	100%

Total Dissolved Solids (TDS) in water Method: ME-(AU)-[ENV]AN113

Parameter	QC	Units	LOR	MB	DUP %RPD	LCS
	Reference					%Recovery
Total Dissolved Solids Dried at 175-185°C	LB215564	mg/L	10	<10	8%	105%



LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample. DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : the absolute difference of the two results divided by the average of the two results as a percentage. Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

Total Phenolics in Water Method: ME-(AU)-[ENV]AN289

Parameter	QC	Units	LOR	MB	LCS	MS
	Reference				%Recovery	%Recovery
Total Phenols	LB215489	mg/L	0.01	<0.01	87%	92%

Total Phosphorus by Kjeldahl Digestion DA in Water Method: ME-(AU)-[ENV]AN279/AN293(Sydney only)

Parameter	QC	Units	LOR	MB	DUP %RPD	LCS
	Reference					%Recovery
Total Phosphorus (Kjeldahl Digestion) as P	LB215643	mg/L	0.02	<0.02	0 - 15%	94%

Trace Metals (Dissolved) in Water by ICPMS Method: ME-(AU)-[ENV]AN318

Parameter	QC	Units	LOR	MB	DUP %RPD	LCS
	Reference					%Recovery
Aluminium, Al	LB215512	µg/L	5	<5	2%	101%
Iron, Fe	LB215512	µg/L	5	<5	1 - 7%	109%
Manganese, Mn	LB215512	µg/L	1	<1	1%	104%

Trace Metals (Total) in Water by ICPMS Method: ME-(AU)-[ENV]AN022/AN318

Parameter	QC	Units	LOR	MB	LCS
	Reference				%Recovery
Total Chromium	LB215510	µg/L	1	<1	107%

TRH (Total Recoverable Hydrocarbons) in Water Method: ME-(AU)-[ENV]AN403

Parameter	QC	Units	LOR	MB	DUP %RPD	LCS
	Reference					%Recovery
TRH C10-C14	LB215737	µg/L	50	<50	0%	74%
TRH C15-C28	LB215737	µg/L	200	<200	0 - 1%	125%
TRH C29-C36	LB215737	µg/L	200	<200	0%	115%
TRH C37-C40	LB215737	µg/L	200	<200	0%	NA
TRH C10-C40	LB215737	µg/L	320	<320	0%	NA

TRH F Bands

Parameter	QC	Units	LOR	MB	DUP %RPD	LCS
	Reference					%Recovery
TRH >C10-C16	LB215737	µg/L	60	<60	0%	92%
TRH >C10-C16 - Naphthalene (F2)	LB215737	µg/L	60	<60	0%	NA
TRH >C16-C34 (F3)	LB215737	µg/L	500	<500	0%	138%
TRH >C34-C40 (F4)	LB215737	µg/L	500	<500	0%	106%



LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample. DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : the absolute difference of the two results divided by the average of the two results as a percentage. Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

Volatile Petroleum Hydrocarbons in Water Method: ME-(AU)-[ENV]AN433

Parameter	QC	Units	LOR	MB	DUP %RPD	LCS	MS
	Reference					%Recovery	%Recovery
TRH C6-C10	LB215868	µg/L	50	<50	0%	76%	80%
TRH C6-C9	LB215868	µg/L	40	<40	0%	78%	80%

Surrogates

Parameter	QC	Units	LOR	MB	DUP %RPD	LCS	MS
	Reference					%Recovery	%Recovery
d4-1,2-dichloroethane (Surrogate)	LB215868	%	-	96%	1%	104%	103%
d8-toluene (Surrogate)	LB215868	%	-	96%	1%	104%	103%
Bromofluorobenzene (Surrogate)	LB215868	%	-	102%	0%	103%	107%

VPH F Bands

Parameter	QC	Units	LOR	MB	DUP %RPD	LCS	MS
	Reference					%Recovery	%Recovery
Benzene (F0)	LB215868	µg/L	0.5		0%	NA	NA
TRH C6-C10 minus BTEX (F1)	LB215868	µg/L	50	<50	0%	68%	71%



METHOD SUMMARY

METHOD	METHODOLOGY SUMMARY
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN022	The water sample is digested with Nitric Acid and made up to the original volume similar to APHA3030E.
AN022/AN318	Following acid digestion of un filtered sample, determination of elements at trace level in waters by ICP-MS technique, referenced to USEPA 6020B and USEPA 200.8 (5.4).
AN101	pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode (glass plus reference electrode) and is calibrated against 3 buffers purchased commercially. For soils, an extract with water is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.
AN106	Conductivity and TDS by Calculation: Conductivity is measured by meter with temperature compensation and is calibrated against a standard solution of potassium chloride. Conductivity is generally reported as μ mhos/cm or μ S/cm @ 25°C. For soils, an extract with water is made at a ratio of 1:5 and the EC determined and reported on the extract, or calculated back to the as-received sample. Total Dissolved Salts can be estimated from conductivity using a conversion factor, which for natural waters, is in the range 0.55 to 0.75. SGS use 0.6. Reference APHA 2510 B.
AN106	Salinity may be calculated in terms of NaCl from the sample conductivity. This assumes all soluble salts present, measured by the conductivity, are present as NaCl.
AN113	Total Dissolved Solids: A well-mixed filtered sample of known volume is evaporated to dryness at 180°C and the residue weighed. Approximate methods for correlating chemical analysis with dissolved solids are available. Reference APHA 2540 C.
AN113	The Total Dissolved Solids residue may also be ignited at 550 C and volatile TDS (Organic TDS) and non-volatile TDS (Inorganic) can be determined.
AN135	Alkalinity (and forms of) by Titration: The sample is titrated with standard acid to pH 8.3 (P titre) and pH 4.5 (T titre) and permanent and/or total alkalinity calculated. The results are expressed as equivalents of calcium carbonate or recalculated as bicarbonate, carbonate and hydroxide. Reference APHA 2320. Internal Reference AN135
AN181	Analysis of COD by Semi Closed Reflux: The sample is refluxed with strong acid and a known excess of oxidant. After digestion the unreduced oxidant is back titrated to determine the amount of oxidant consumed. The chemically oxidised matter is calculated in terms of oxygen equivalents. Reference APHA 5220 B.
AN190	TOC and DOC in Water: A homogenised micro portion of sample is injected into a heated reaction chamber packed with an oxidative catalyst that converts organic carbon to carbon dioxide. The CO2 is measured using a non-dispersive infrared detector. The process is fully automated in a commercially available analyser. If required a sugar value can be calculated from the TOC result. Reference APHA 5310 B.
AN190	Chemical oxygen demand can be calculated/estimated based on the O2/C relation as 2.67*NPOC (TOC). This is an estimate only and the factor will vary with sample matrix so results should be interpreted with caution.



METHOD SUMMARY

METHOD	
AN245	Anions by Ion Chromatography: A water sample is injected into an eluent stream that passes through the ion chromatographic system where the anions of interest ie Br, CI, NO2, NO3 and SO4 are separated on their relative affinities for the active sites on the column packing material. Changes to the conductivity and the UV-visible absorbance of the eluent enable identification and quantitation of the anions based on their retention time and peak height or area. APHA 4110 B
AN279/AN293(Sydney)	The sample is digested with Sulphuric acid, K2SO4 and CuSO4. All forms of phosphorus are converted into orthophosphate. The digest is cooled and placed on the discrete analyser for colorimetric analysis.
AN283	Hexavalent Chromium via Aquakem DA: Soluble hexavalent chromium forms a red/violet colour with diphenylcarbazide in acidic solution. This procedure is very sensitive and nearly specific for Cr6+. If total chromium is also measured the trivalent form of chromium Cr3+ can be calculated from the difference (Total Cr - Cr6+). Reference APHA3500CrB.
AN289	Analysis of Total Phenols in Soil Sediment and Water: Steam distillable phenols react with 4-aminoantipyrine at pH 7.9±0.1 in the presence of potassium ferricyanide to form a coloured antipyrine dye analysed by Discrete Analyser. Reference APHA 5530 B/D.
AN291	Ammonia in solution reacts with hypochlorite ions from Sodium Dichloroisocyanuate, and salicylate in the presence of Sodium Nitroprusside to form indophenol blue and measured at 670 nm by Discrete Analyser.
AN318	Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).
AN320	Metals by ICP-OES: Samples are preserved with 10% nitric acid for a wide range of metals and some non-metals. This solution is measured by Inductively Coupled Plasma. Solutions are aspirated into an argon plasma at 8000-10000K and emit characteristic energy or light as a result of electron transitions through unique energy levels. The emitted light is focused onto a diffraction grating where it is separated into components .
AN320	Photomultipliers or CCDs are used to measure the light intensity at specific wavelengths. This intensity is directly proportional to concentration. Corrections are required to compensate for spectral overlap between elements. Reference APHA 3120 B.
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). Where F2 is corrected for Naphthalene, the VOC data for Naphthalene is used.
AN403	Additionally, the volatile C6-C9/C6-C10 fractions may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoveerable Hydrocarbons - Silica (TRH-Silica) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.



METHOD SUMMARY

METHOD	METHODOLOGY SUMMARY
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
Calculation	Free and Total Carbon Dioxide may be calculated using alkalinity forms only when the samples TDS is <500mg/L. If TDS is >500mg/L free or total carbon dioxide cannot be reported. APHA4500CO2 D.



FOOTNOTES .

IS Insufficient sample for analysis. LOR Limit of Reporting LNR Sample listed, but not received. Raised or Lowered Limit of Reporting ↑↓ NATA accreditation does not cover the QFH QC result is above the upper tolerance performance of this service QFI QC result is below the lower tolerance ++ Indicative data, theoretical holding time exceeded. The sample was not analysed for this analyte

NVI

Not Validated

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received. Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calcuated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the "Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.

Note that in terms of units of radioactivity:

- a. 1 Bq is equivalent to 27 pCi
- b. 37 MBq is equivalent to 1 mCi

Indicates that both * and ** apply.

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <u>www.sgs.com.au/en-gb/environment-health-and-safety</u>.

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