

Concentration Monitoring
Summary 29/5/2020 -
28/5/2021

B2

For each monitoring point identified in your licence complete all the details for each pollutants listed in the tables provided below

Discharge & Monitoring Point 1						
Overflow drain, DP1 - Overflow from stormwater pond as specified in Drawing No 500 of City of W'gong, Helensburgh Waste Depot Ext, Leachate Disposal Syst, Site Plan, 10.11.95						
Pollutant	Unit of Measure	No of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
pH	pH					
Total suspended solids	milligrams per litre	Daily during any discharge	0	NA	NA	NA

Monitoring Point 12						
Groundwater monitoring, LFGMB1 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste Facility,						
Pollutant	Unit of Measure	No of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	4	4	44	61	82
Aluminium	milligrams per litre	1	1	1.09	1.09	1.09
Arsenic	milligrams per litre	1	1	0.001	0.001	0.001
Barium	milligrams per litre	1	1	0.034	0.034	0.034
Benzene	micrograms per litre	1	1	<1	<1	<1
Cadmium	milligrams per litre	1	1	<0.0001	<0.0001	<0.0001
Calcium	milligrams per litre	4	4	13	18.5	24
Chloride	milligrams per litre	4	4	18	19	21
Chromium (hexavalent)	milligrams per litre	1	1	<0.01	<0.01	<0.01
Chromium (total)	milligrams per litre	1	1	<0.001	<0.001	<0.001
Copper	milligrams per litre	1	1	0.004	0.004	0.004
Ethyl benzene	micrograms per litre	1	1	<2	<2	<2
Fluoride	milligrams per litre	1	1	<0.1	<0.1	<0.1
Lead	milligrams per litre	1	1	<0.001	<0.001	<0.001
Magnesium	milligrams per litre	4	4	9	9.75	11
Manganese	micrograms per litre	1	1	0.087	0.087	0.087
Mercury	milligrams per litre	1	1	<0.0001	<0.0001	<0.0001
Nitrate	milligrams per litre	1	1	0.28	0.285	0.29
Nitrite	milligrams per litre	1	1	0.01	0.01	0.01
Nitrogen (ammonia)	milligrams per litre	4	4	<0.01	0.0125	0.03
Organochlorine pesticides	milligrams per litre	1	1	<0.5	<0.5	<0.5
Organophosphate pesticides	milligrams per litre	1	1	<0.5	<0.5	<0.5
Polycyclic aromatic hydrocarbons	micrograms per litre	1	1	<0.5	<0.5	<0.5
Potassium	milligrams per litre	4	4	<1	0.5	1
Sodium	milligrams per litre	4	4	19	21.25	24
Standing Water Level	metres	4	4	1.42	2.165	2.84
Sulfate	milligrams per litre	4	4	50	57.25	65
Toluene	micrograms per litre	1	1	<2	<2	<2
Total dissolved solids	milligrams per litre	4	4	146	171.75	211
Total organic carbon	milligrams per litre	4	4	<1	2.25	5
Total petroleum hydrocarbons	micrograms per litre	1	1	<100	<100	<100
Total Phenolics	milligrams per litre	1	1	<0.05	<0.05	<0.05
Xylene	micrograms per litre	1	1	<2	<2	<2
Zinc	milligrams per litre	1	1	0.009	0.009	0.009

Monitoring Point 13

Groundwater monitoring, LFGMB2 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste Facility,

Pollutant	Unit of Measure	No of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	4	4	34	38	42
Aluminium	milligrams per litre	1	1	23.4	23.4	23.4
Arsenic	milligrams per litre	1	1	0.003	0.003	0.003
Barium	milligrams per litre	1	1	0.064	0.064	0.064
Benzene	micrograms per litre	1	1	<1	<1	<1
Cadmium	milligrams per litre	1	1	0.0001	0.0001	0.0001
Calcium	milligrams per litre	4	4	15	17.5	21
Chloride	milligrams per litre	4	4	15	23.75	31
Chromium (hexavalent)	milligrams per litre	1	1	<0.01	<0.01	<0.01
Chromium (total)	milligrams per litre	1	1	0.036	0.036	0.036
Copper	milligrams per litre	1	1	0.029	0.029	0.029
Ethyl benzene	micrograms per litre	1	1	<2	<2	<2
Fluoride	milligrams per litre	1	1	<0.1	<0.1	<0.1
Lead	milligrams per litre	1	1	0.02	0.02	0.02
Magnesium	milligrams per litre	4	4	6	7	8
Manganese	micrograms per litre	1	1	0.124	0.124	0.124
Mercury	milligrams per litre	1	1	<0.0001	<0.0001	<0.0001
Nitrate	milligrams per litre	1	1	1.19	1.19	1.19
Nitrite	milligrams per litre	1	1	<0.01	<0.01	<0.01
Nitrogen (ammonia)	milligrams per litre	4	4	0.01	0.02	0.03
Organochlorine pesticides	milligrams per litre	1	1	<0.5	<0.5	<0.5
Organophosphate pesticides	milligrams per litre	1	1	<0.5	<0.5	<0.5
Polycyclic aromatic hydrocarbons	micrograms per litre	1	1	<0.5	<0.5	<0.5
Potassium	milligrams per litre	4	4	4	4.5	6
Sodium	milligrams per litre	4	4	14	15	16
Standing Water Level	metres	4	4	1.58	2.695	3.48
Sulfate	milligrams per litre	4	4	23	38.25	74
Toluene	micrograms per litre	1	1	<2	<2	<2
Total dissolved solids	milligrams per litre	4	4	115	195.75	252
Total organic carbon	milligrams per litre	4	4	<1	4.75	12
Total petroleum hydrocarbons	milligrams per litre	1	1	<100	<100	<100
Total Phenolics	milligrams per litre	1	1	<0.05	<0.05	<0.05
Xylene	micrograms per litre	1	1	<2	<2	<2
Zinc	milligrams per litre	1	1	0.111	0.111	0.111

Monitoring Point 14

Groundwater monitoring, LFGMB3 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste Facility,

Pollutant	Unit of Measure	No of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	4	4	10	12.25	16
Aluminium	milligrams per litre	1	1	2.91	2.91	2.91
Arsenic	milligrams per litre	1	1	<0.001	<0.001	<0.001
Barium	milligrams per litre	1	1	0.011	0.011	0.011
Benzene	milligrams per litre	1	1	<1	<1	<1
Cadmium	milligrams per litre	1	1	<0.0001	<0.0001	<0.0001
Calcium	milligrams per litre	4	4	6	6.25	7
Chloride	milligrams per litre	4	4	13	19.25	22
Chromium (hexavalent)	milligrams per litre	1	1	<0.01	<0.01	<0.01
Chromium (total)	milligrams per litre	1	1	0.003	0.003	0.003
Copper	milligrams per litre	1	1	0.006	0.006	0.006
Ethyl benzene	micrograms per litre	1	1	<2	<2	<2
Fluoride	milligrams per litre	1	1	<0.1	<0.1	<0.1
Lead	milligrams per litre	1	1	0.002	0.002	0.002
Magnesium	milligrams per litre	4	4	2	2.75	3
Manganese	micrograms per litre	1	1	0.01	0.01	0.01

Mercury	milligrams per litre	1	1	<0.0001	<0.0001	<0.0001
Nitrate	milligrams per litre	1	1	0.06	0.06	0.06
Nitrite	milligrams per litre	1	1	<0.01	<0.01	<0.01
Nitrogen (ammonia)	milligrams per litre	4	4	<0.01	0.005	0.02
Organochlorine pesticides	milligrams per litre	1	1	<0.5	<0.5	<0.5
Organophosphate pesticides	milligrams per litre	1	1	<0.5	<0.5	<0.5
Polycyclic aromatic hydrocarbons	milligrams per litre	1	1	<0.5	<0.5	<0.5
Potassium	milligrams per litre	4	4	1	1.75	2
Sodium	milligrams per litre	4	4	8	10.5	12
Standing Water Level	metres	4	4	1.28	2.165	2.9
Sulfate	milligrams per litre	4	4	13	14.75	18
Toluene	milligrams per litre	1	1	<2	<2	<2
Total dissolved solids	milligrams per litre	4	4	66	90	146
Total organic carbon	milligrams per litre	4	4	0	0.75	3
Total petroleum hydrocarbons	milligrams per litre	1	1	<100	<100	<100
Total Phenolics	milligrams per litre	1	1	<0.05	<0.05	<0.05
Xylene	milligrams per litre	1	1	<2	<2	<2
Zinc	milligrams per litre	1	1	0.019	0.019	0.019

Monitoring Point 15

Groundwater monitoring, LFGMB4 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste Facility,						
Pollutant	Unit of Measure	No of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	4	4	6	7	8
Aluminium	milligrams per litre	1	1	1.66	1.66	1.66
Arsenic	milligrams per litre	1	1	<0.001	<0.001	<0.001
Barium	milligrams per litre	1	1	0.004	0.004	0.004
Benzene	micrograms per litre	1	1	<1	<1	<1
Cadmium	milligrams per litre	1	1	<0.0001	<0.0001	<0.0001
Calcium	milligrams per litre	4	4	7	8.25	9
Chloride	milligrams per litre	4	4	13	14.25	16
Chromium (hexavalent)	milligrams per litre	1	1	<0.01	<0.01	<0.01
Chromium (total)	milligrams per litre	1	1	0.001	0.001	0.001
Copper	milligrams per litre	1	1	0.005	0.005	0.005
Ethyl benzene	micrograms per litre	1	1	<2	<2	<2
Fluoride	milligrams per litre	1	1	<0.1	<0.1	<0.1
Lead	milligrams per litre	1	1	0.001	0.001	0.001
Magnesium	milligrams per litre	4	4	3	3.25	4
Manganese	micrograms per litre	1	1	0.022	0.022	0.022
Mercury	milligrams per litre	1	1	<0.0001	<0.0001	<0.0001
Nitrate	milligrams per litre	1	2	3.63	3.635	3.64
Nitrite	milligrams per litre	1	1	0.01	0.01	0.01
Nitrogen (ammonia)	milligrams per litre	4	4	<0.01	<0.01	<0.01
Organochlorine pesticides	milligrams per litre	1	1	<0.5	<0.5	<0.5
Organophosphate pesticides	milligrams per litre	1	1	<0.5	<0.5	<0.5
Polycyclic aromatic hydrocarbons	micrograms per litre	1	1	<0.5	<0.5	<0.5
Potassium	milligrams per litre	4	4	12	12.5	13
Sodium	milligrams per litre	4	4	8	8.75	9
Standing Water Level		4	4	1.01	1.99	2.91
Sulfate	milligrams per litre	4	4	28	31	34
Toluene	micrograms per litre	1	1	<2	<2	<2
Total dissolved solids	milligrams per litre	4	4	98	108	119
Total organic carbon	milligrams per litre	4	4	0	3	5
Total petroleum hydrocarbons	milligrams per litre	1	1	<100	<100	<100
Total Phenolics	milligrams per litre	1	1	<0.05	<0.05	<0.05
Xylene	micrograms per litre	1	1	<2	<2	<2
Zinc	milligrams per litre	1	1	0.019	0.019	0.019

Monitoring Point 16						
Groundwater monitoring, GWMB5 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste Facility,						
Pollutant	Unit of Measure	No of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	4	4	<1	1	2
Aluminium	milligrams per litre	1	1	1.46	1.46	1.46
Arsenic	milligrams per litre	1	1	<0.001	<0.001	<0.001
Barium	milligrams per litre	1	1	0.016	0.016	0.016
Benzene	micrograms per litre	1	1	<1	<1	<1
Cadmium	milligrams per litre	1	1	<0.0001	<0.0001	<0.0001
Calcium	milligrams per litre	4	4	3	4.5	6
Chloride	milligrams per litre	4	4	39	40.5	43
Chromium (hexavalent)	milligrams per litre	1	1	<0.01	<0.01	<0.01
Chromium (total)	milligrams per litre	1	1	0.003	0.003	0.003
Copper	milligrams per litre	1	1	0.013	0.013	0.013
Ethyl benzene	micrograms per litre	1	1	<2	<2	<2
Fluoride	milligrams per litre	1	1	<0.1	<0.1	<0.1
Lead	milligrams per litre	1	1	0.003	0.003	0.003
Magnesium	milligrams per litre	4	4	5	5.25	6
Manganese	micrograms per litre	1	1	0.058	0.058	0.058
Mercury	milligrams per litre	1	1	<0.0001	<0.0001	<0.0001
Nitrate	milligrams per litre	1	2	0.16	0.165	0.17
Nitrite	milligrams per litre	1	1	0.01	0.01	0.01
Nitrogen (ammonia)	milligrams per litre	4	4	<0.01	0.0025	0.01
Organochlorine pesticides	milligrams per litre	1	1	<0.5	<0.5	<0.5
Organophosphate pesticides	milligrams per litre	1	1	<0.5	<0.5	<0.5
Polycyclic aromatic hydrocarbons	micrograms per litre	1	1	<0.5	<0.5	<0.5
Potassium	milligrams per litre	4	4	<1	0.75	2
Sodium	milligrams per litre	4	4	22	24.25	26
Standing Water Level	metres	4	4	3.12	4.495	5.62
Sulfate	milligrams per litre	4	4	23	26.25	30
Toluene	micrograms per litre	1	1	<2	<2	<2
Total dissolved solids	milligrams per litre	4	4	106	119.75	138
Total organic carbon	milligrams per litre	4	4	<1	0.75	3
Total petroleum hydrocarbons	milligrams per litre	1	1	<100	<100	<100
Total Phenolics	milligrams per litre	1	1	<0.05	<0.05	<0.05
Xylene	micrograms per litre	1	1	<2	<2	<2
Zinc	milligrams per litre	1	1	0.048	0.048	0.048

Monitoring Point 17						
Landfill Gas Monitoring, LGB5 - "Former Helensburgh Waste Depot Landfill Gas Bore Completion Report", Meinhardt, December 2015						
Pollutant	Unit of Measure	No of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Methane	percent by volume	1	1	<0.00001	<0.00001	<0.00001

Monitoring Point 18						
Landfill Gas Monitoring, LGB6 - "Former Helensburgh Waste Depot Landfill Gas Bore Completion Report", Meinhardt, December 2015						
Pollutant	Unit of Measure	No of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Methane	percent by volume	1	1	<0.00001	<0.00001	<0.00001

Monitoring Point 19						
Landfill Gas Monitoring, LGB7 - "Former Helensburgh Waste Depot Landfill Gas Bore Completion Report", Meinhardt, December 2015						
Pollutant	Unit of Measure	No of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Methane	percent by volume	1	1	<0.00001	<0.00001	<0.00001

Monitoring Point 2						
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Leachate Dam, Leachate Dam						
Pollutant	Unit of Measure	No of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as Calcium Carbonate)	milligrams per litre	1	1	570	570	570
Aluminium	milligrams per litre	1	1	<0.01	<0.01	<0.01
Arsenic	milligrams per litre	1	1	<0.001	<0.001	<0.001
Barium	milligrams per litre	1	1	0.196	0.196	0.196
Benzene	microgram per litre	1	1	<1	<1	<1
Cadmium	milligrams per litre	1	1	<0.0001	<0.0001	<0.0001
Calcium	milligrams per litre	1	1	121	121	121
Chloride	milligrams per litre	1	1	45	45	45
Chromium (Hexavalent)	milligrams per litre	1	1	<0.01	<0.01	<0.01
Chromium (Total)	milligrams per litre	1	1	<0.001	<0.001	<0.001
Cobalt	milligrams per litre	1	1	<0.001	<0.001	<0.001
Conductivity	microsiemens per centimeter	4	4	964	1131	1320
Copper	milligrams per litre	1	1	0.023	0.023	0.023
Ethyl Benzene	micrograms per litre	1	1	<2	<2	<2
Fluoride	milligrams per litre	1	1	0.2	0.2	0.2
Lead	milligrams per litre	1	1	<0.001	<0.001	<0.001
Magnesium	milligrams per litre	1	1	56	56	56
Manganese	milligrams per litre	1	1	0.085	0.085	0.085
Mercury	milligrams per litre	1	1	<0.0001	<0.0001	<0.0001
Nitrate	milligrams per litre	1	1	3.33	3.33	3.33
Nitrite	milligrams per litre	1	1	0.09	0.09	0.09
Nitrogen (Ammonia)	milligrams per litre	1	1	8.75	8.75	8.75
Organochlorine pesticides	milligrams per litre	1	1	<0.5	<0.5	<0.5
Organophosphate pesticides	milligrams per litre	1	1	<0.5	<0.5	<0.5
pH	pH	1	1	7.5	7.5	7.5
Phosphorus (Total)	milligrams per litre	1	1	0.02	0.02	0.02
Polycyclic Aromatic Hydrocarbons	micrograms per litre	1	1	<0.5	<0.5	<0.5
Potassium	milligrams per litre	1	1	35	35	35
Sodium	milligrams per litre	1	1	63	63	63
Sulfate	milligrams per litre	1	1	89	89	89
Toluene	micrograms per litre	1	1	<2	<2	<2

Total Dissolved Solids	milligrams per litre	1	1	732	732	732
Total Organic Carbon	milligrams per litre	1	1	21	21	21
Total Petroleum Hydrocarbons	milligrams per litre	1	1	<100	<100	<100
Total Phenolics	milligrams per litre	1	1	<0.05	<0.05	<0.05
Total Suspended Solids	milligrams per litre	1	1	<5	<5	<5
Xylene	micrograms per litre	1	1	<2	<2	<2
Zinc	milligrams per litre	1	1	<0.005	<0.005	<0.005

Monitoring Point 20						
Landfill Gas Monitoring, LGB8 - "Former Helensburgh Waste Depot Landfill Gas Bore Completion Report", Meinhardt, December 2015 (E315771 N6216116). EPA Reference: DOC16/279048						
Pollutant	Unit of Measure	required by licence	collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Methane	percent by volume	1	4	<0.00001	<0.00001	<0.00001

Monitoring Point 21						
Landfill Gas Monitoring, LGB9 - "Former Helensburgh Waste Depot Landfill Gas Bore Completion Report", Meinhardt, December 2015 (E315949 N6216094). EPA Reference: DOC16/279048						
Pollutant	Unit of Measure	required by licence	collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Methane	percent by volume	1	4	<0.00001	<0.00001	<0.00001

Monitoring Point 3						
Landfill gas monitoring, Areas where intermediate or final cover has been placed						
Pollutant	Unit of Measure	No. of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Methane	percent by volume	1	1	0.00023	0.000239	0.00045

Monitoring Point 4						
Landfill gas monitoring, LFGMB1 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste Facility, Nixon Place, Helensburgh", Douglas Partners, December 2011						
Pollutant	Unit of Measure	No. of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Methane	percent by volume	1	4	<0.00001	<0.00001	<0.00001

Monitoring Point 5

Ground water monitoring, BH1 - bore hole as shown on Plan 20298/SK 02 Site Plan

Pollutant	Unit of Measure	No of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	4	4	5	7.5	15
Aluminium	milligrams per litre	1	1	1.42	1.42	1.42
Arsenic	milligrams per litre	1	1	<0.001	<0.001	<0.001
Barium	milligrams per litre	1	1	0.033	0.033	0.033
Benzene	micrograms per litre	1	1	<1	<1	<1
Cadmium	milligrams per litre	1	1	<0.0001	<0.0001	<0.0001
Calcium	milligrams per litre	4	4	19	30.5	40
Chloride	milligrams per litre	4	4	155	193	217
Chromium (hexavalent)	milligrams per litre	1	1	<0.01	<0.01	<0.01
Chromium (total)	milligrams per litre	1	1	<0.001	<0.001	<0.001
Cobalt	milligrams per litre	1	1	0.001	0.001	0.001
Copper	milligrams per litre	1	1	0.006	0.006	0.006
Ethyl benzene	micrograms per litre	1	1	<2	<2	<2
Fluoride	milligrams per litre	1	1	<0.1	<0.1	<0.1
Lead	milligrams per litre	1	1	0.002	0.002	0.002
Magnesium	milligrams per litre	4	4	17	25.5	32
Manganese	micrograms per litre	1	1	0.067	0.067	0.067
Mercury	milligrams per litre	1	1	<0.0001	<0.0001	<0.0001
Nitrate	milligrams per litre	1	2	0.23	0.23	0.23
Nitrite	milligrams per litre	1	1	<0.01	<0.01	<0.01
Nitrogen (ammonia)	milligrams per litre	4	4	0.02	0.2975	0.67
Organochlorine pesticides	micrograms per litre	1	1	<0.5	<0.5	<0.5
Organophosphate pesticides	micrograms per litre	1	1	<0.5	<0.5	<0.5
pH	pH	4	4	5.1	5.275	5.5
Polycyclic aromatic hydrocarbons	micrograms per litre	1	1	<0.5	<0.5	<0.5
Potassium	milligrams per litre	4	4	<1	0.5	2
Sodium	milligrams per litre	4	4	74	83.5	93
Standing Water Level	metres	4	4	2.7	3.2825	3.99
Sulfate	milligrams per litre	4	4	62	101.5	121
Toluene	micrograms per litre	1	1	<2	<2	<2
Total dissolved solids	milligrams per litre	4	4	360	466	526
Total organic carbon	milligrams per litre	4	4	<1	2.5	6
Total petroleum hydrocarbons	micrograms per litre	1	1	<100	<100	<100
Total Phenolics	milligrams per litre	1	1	<0.05	<0.05	<0.05
Xylene	micrograms per litre	1	1	<2	<2	<2
Zinc	milligrams per litre	1	1	0.173	0.173	0.173

Monitoring Point 6

Groundwater monitoring, GWMB6 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste Facility, Nixon Place, Helensburgh", Douglas Partners, December 2011

Pollutant	Unit of Measure	No of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	4	4	160	200	227
Aluminium	milligrams per litre	1	1	0.36	0.36	0.36
Arsenic	milligrams per litre	1	1	0.007	0.007	0.007
Barium	milligrams per litre	1	1	0.086	0.086	0.086
Benzene	micrograms per litre	1	1	<1	<1	<1
Cadmium	milligrams per litre	1	1	<0.0001	<0.0001	<0.0001
Calcium	milligrams per litre	4	4	38	44.75	50
Chloride	milligrams per litre	4	4	12	20.25	30
Chromium (hexavalent)	milligrams per litre	1	1	<0.01	<0.01	<0.01
Chromium (total)	milligrams per litre	1	1	<0.001	<0.001	<0.001
Cobalt	milligrams per litre	1	1	0.001	0.001	0.001

Copper		1	1	0.007	0.007	0.007
Ethyl benzene	micrograms per litre	1	1	<2	<2	<2
Fluoride	milligrams per litre	1	1	0.1	0.1	0.1
Lead	milligrams per litre	1	1	<0.001	<0.001	<0.001
Magnesium	milligrams per litre	4	4	20	23.5	26
Manganese	micrograms per litre	1	1	0.162	0.162	0.162
Mercury	milligrams per litre	1	1	<0.0001	<0.0001	<0.0001
Nitrate	milligrams per litre	1	1	<0.01	<0.01	<0.01
Nitrite	milligrams per litre	1	1	<0.01	<0.01	<0.01
Nitrogen (ammonia)	milligrams per litre	4	4	<0.01	0.005	0.02
Organochlorine pesticides	milligrams per litre	1	1	<0.5	<0.5	<0.5
Organophosphate pesticides	milligrams per litre	1	1	<0.5	<0.5	<0.5
pH	pH	4	4	7	7.125	7.3
Polycyclic aromatic hydrocarbons	micrograms per litre	1	1	<0.5	<0.5	<0.5
Potassium	milligrams per litre	4	4	2	3	4
Sodium	milligrams per litre	4	4	13	16.5	21
Standing Water Level	metres	4	4	0.72	2.06	2.84
Sulfate	milligrams per litre	4	4	10	17.5	22
Toluene	micrograms per litre	1	1	<2	<2	<2
Total dissolved solids	milligrams per litre	4	4	207	283.5	376
Total organic carbon	milligrams per litre	4	4	<1	8	12
Total petroleum hydrocarbons	milligrams per litre	1	1	<100	<100	<100
Total Phenolics	milligrams per litre	1	1	<0.05	<0.05	<0.05
Xylene	micrograms per litre	1	1	<2	<2	<2
Zinc	milligrams per litre	1	1	0.014	0.014	0.014

Monitoring Point 7

Ground water monitoring, BH4 - bore hole as shown on Plan 20298/SK 02 Site Plan

Pollutant	Unit of Measure	No of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	4	4	<1	3.75	6
Aluminium	milligrams per litre	1	1	2.48	2.48	2.48
Arsenic	milligrams per litre	1	1	<0.001	<0.001	<0.001
Barium	milligrams per litre	1	1	0.022	0.022	0.022
Benzene	micrograms per litre	1	1	<1	<1	<1
Cadmium	milligrams per litre	1	1	<0.0001	<0.0001	<0.0001
Calcium	milligrams per litre	4	4	<1	<1	<1
Chloride	milligrams per litre	4	4	75	116.5	132
Chromium (hexavalent)	milligrams per litre	1	1	<0.01	<0.01	<0.01
Chromium (total)	milligrams per litre	1	1	<0.001	<0.001	<0.001
Cobalt	milligrams per litre	1	1	0.001	0.001	0.001
Copper	milligrams per litre	1	1	0.006	0.006	0.006
Ethyl benzene	micrograms per litre	1	1	<2	<2	<2
Fluoride	milligrams per litre	1	1	<0.1	<0.1	<0.1
Lead	milligrams per litre	1	1	0.002	0.002	0.002
Magnesium	milligrams per litre	4	4	5	5.5	6
Manganese	micrograms per litre	1	1	0.053	0.053	0.053
Mercury	milligrams per litre	1	1	<0.0001	<0.0001	<0.0001
Nitrate	milligrams per litre	1	1	0.96	0.96	0.96
Nitrite	milligrams per litre	1	1	<0.01	<0.01	<0.01
Nitrogen (ammonia)	milligrams per litre	4	4	<0.01	0.005	0.02
Organochlorine pesticides	milligrams per litre	1	1	<0.5	<0.5	<0.5
Organophosphate pesticides	milligrams per litre	1	1	<0.5	<0.5	<0.5
pH	pH	4	4	4.3	4.475	4.6
Polycyclic aromatic hydrocarbons	milligrams per litre	1	1	<0.5	<0.5	<0.5
Potassium	milligrams per litre	4	4	<1	0.5	1
Sodium	milligrams per litre	4	4	87	108	126
Standing Water Level	metres	4	4	1.26	3.185	5.27
Sulfate	milligrams per litre	4	4	88	95.5	101
Toluene	micrograms per litre	1	1	<2	<2	<2
Total dissolved solids	milligrams per litre	4	4	318	359.25	393
Total organic carbon	milligrams per litre	4	4	<1	1.5	4
Total petroleum hydrocarbons	milligrams per litre	1	1	<100	<100	<100
Total Phenolics	milligrams per litre	1	1	<0.05	<0.05	<0.05
Xylene	micrograms per litre	1	1	<2	<2	<2
Zinc	milligrams per litre	1	1	0.023	0.023	0.023

Monitoring Point 8

Surface water monitoring, WCC ref - Pony Club as shown on Plan 20298/SK 02 Site Plan

Pollutant	Unit of Measure	No of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Conductivity	microsiemens per centimeter	4	4	653	761.25	857
Dissolved Oxygen	milligrams per litre	4	4	6.1	12.55	19.1
Faecal Coliforms	colony forming units per 100 millilitres	4	4	~30	4	16
Nitrogen (Ammonia)	milligrams per litre	4	4	0.03	0.5175	1.14
pH	pH	4	4	7.5	8.55	9.8
Potassium	milligrams per litre	4	4	16	22	26
Redox Potential	millivolts	4	4	35	133.25	273
Total Dissolved Solids	milligrams per litre	4	4	398	484.75	522
Total Organic Carbon	milligrams per litre	4	4	7	25.5	48

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