

BARGO WASTE MANAGEMENT CENTRE ANTHONY ROAD BARGO - SAMPLING RESULTS

SAMPLING ON 4TH FEBRUARY 2015

EPA LICENCE NUMBER 6061

<http://www.environment.nsw.gov.au/prpocopp/>

WOLLONDILLY SHIRE COUNCIL

62-64 Menangle Street PICTON NSW 2571

SAMPLING LOCATIONS				EPA Point 1	EPA Point 2	EPA Point 3	EPA Point 4	EPA Point 5	EPA Point 6	EPA Point 7	EPA Point 8	-
Pollutant	Unit of Measure	Monitoring Frequency	Trigger value	Ground Water Bore BA1 NE Corner	Surface Water Pond NE Corner BA3	Dog Trap Creek Upstream BA4	Dog Trap Creek Downstream BA5	Surface Water Pond SE Corner BA8	Drainage Line BA9	Ground Water Up Gradient Bore BA6 SW Corner	Ground Water Down Gradient Bore BA7 SE Corner	Dog Trap Creek below landfill drainage line BA10
Alkalinity (as calcium carbonate)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Aluminium	milligrams per litre	Annual / Quarterly	0.055	not required	not required	0.96	Less than 0.95	not required	not required	not required	not required	0.29
Ammonia (as nitrogen)	milligrams per litre	Quarterly	0.9	59	0.62	0.07	0.51	0.04	0.93	0.14	0.13	0.01
Arsenic	milligrams per litre	Annual / Quarterly	0.01	not required	not required	Less than 0.001	Less than 0.001	not required	not required	not required	not required	Less than 0.001
Barium	milligrams per litre	Annual / Quarterly	2	not required	not required	Less than 0.02	0.1	not required	not required	not required	not required	0.05
Benzene	milligrams per litre	Annual	0.001	not required	not required	not required	not required	not required	not required	not required	not required	not required
Biological Oxygen Demand (BOD)	milligrams per litre	Quarterly	-	not required	Less than 2	Less than 2	Less than 2	Less than 2	not required	not required	not required	Less than 2
Cadmium	milligrams per litre	Annual / Quarterly	0.0002	not required	not required	Less than 0.0002	Less than 0.0002	not required	not required	not required	not required	Less than 0.0002
Calcium	milligrams per litre	Annual	1000	not required	not required	not required	not required	not required	not required	not required	not required	not required
Chemical Oxygen Demand (COD)	milligrams per litre	Quarterly	-	not required	not required	Less than 20	43	Less than 20	not required	not required	not required	49
Chloride (Cl)	milligrams per litre	Annual	175	not required	not required	not required	not required	not required	not required	not required	not required	not required
Chlorinated Volatile Compounds (CVCs)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Chromium (hexavalent)	milligrams per litre	Annual / Quarterly	0.001	not required	not required	Less than 0.001	Less than 0.001	not required	not required	not required	not required	Less than 0.001
Chromium (total)	milligrams per litre	Annual / Quarterly	0.0033	not required	not required	Less than 0.001	0.002	not required	not required	not required	not required	Less than 0.001
Cobalt	milligrams per litre	Annual / Quarterly	0.0014	not required	not required	Less than 0.001	Less than 0.001	not required	not required	not required	not required	Less than 0.001
Copper	milligrams per litre	Annual / Quarterly	0.0014	not required	not required	Less than 0.001	0.002	not required	not required	not required	not required	0.003
Ethylbenzene	milligrams per litre	Annual	0.08	not required	not required	not required	not required	not required	not required	not required	not required	not required
Fluoride	milligrams per litre	Annual	1	not required	not required	not required	not required	not required	not required	not required	not required	not required
Lead	milligrams per litre	Annual / Quarterly	0.0034	not required	not required	Less than 0.001	Less than 0.001	not required	not required	not required	not required	Less than 0.001
Magnesium	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Manganese	milligrams per litre	Annual / Quarterly	0.2	not required	not required	0.006	0.005	not required	not required	not required	not required	0.039
Mercury	milligrams per litre	Annual / Quarterly	0.00006	not required	not required	Less than 0.0001	Less than 0.0001	not required	not required	not required	not required	Less than 0.0001
Nitrate (as Nitrogen)	milligrams per litre	Annual / Quarterly	0.16	not required	not required	Less than 0.02	9.7	not required	not required	not required	not required	4.6
Nitrite (as Nitrogen)	milligrams per litre	Annual / Quarterly	0.9	not required	not required	Less than 0.02	0.21	not required	not required	not required	not required	Less than 0.02
Organochlorine Pesticides (OCP)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Organophosphorus Pesticides (OPP)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Polycyclic Aromatic Hydrocarbons (PAH)	milligrams per litre	Annual	0.00001	not required	not required	not required	not required	not required	not required	not required	not required	not required
Potassium	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Semi-volatile Organic Compounds (SVOCs)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Sodium	milligrams per litre	Annual	230	not required	not required	not required	not required	not required	not required	not required	not required	not required
Sulphate (as SO ₄)	milligrams per litre	Annual	1000	not required	not required	not required	not required	not required	not required	not required	not required	not required
Toluene	milligrams per litre	Annual	0.18	not required	not required	not required	not required	not required	not required	not required	not required	not required
Total Dissolved Solids (TDS)	milligrams per litre	Quarterly	2000	1100	600	88	770	190	1800	470	110	990
Total Iron	milligrams per litre	Annual	0.2	not required	not required	not required	not required	not required	not required	not required	not required	not required
Total Kjeldahl Nitrogen	milligrams per litre	Quarterly	-	not required	not required	Less than 0.2	2.9	not required	not required	not required	not required	1.1
Total Nitrogen	milligrams per litre	Quarterly	0.25	not required	not required	Less than 0.2	18.9	not required	not required	not required	not required	5.7
Total Organic Carbon (TOC)	milligrams per litre	Quarterly	-	20	26	6.9	16	8	20	Less than 5	6.2	9.2
Total Petroleum Hydrocarbons (TPH)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Total Phenolics	milligrams per litre	Annual	0.32	not required	not required	not required	not required	not required	not required	not required	not required	not required
Total Phosphorus	milligrams per litre	Annual / Quarterly	0.02	not required	not required	Less than 0.5	Less than 0.5	not required	not required	not required	not required	Less than 0.5
Total Suspended Solids (TSS)	milligrams per litre	Quarterly	50	not required	4.7	2	1.5	4	not required	not required	not required	3.8
Volatile Organic Compounds (VOCs)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Xylenes	milligrams per litre	Annual	0.075	not required	not required	not required	not required	not required	not required	not required	not required	not required
Zinc	milligrams per litre	Annual / Quarterly	0.008	not required	not required	0.003	0.006	not required	not required	not required	not required	0.017
FIELD MEASUREMENTS												
Standing Water Level	metres below ground surface	Quarterly	-	0.665	not required	not required	not required	not required	not required	36.7	11.575	not required
Electrical Conductivity	microsiemens per centimetre	Quarterly	30-350	2091.7	941.5	128.8	1087.7	289.1	2248	746.9	140.9	871.5
PH	PH Units	Quarterly	6.5-8	7.1	8.45	7.22	7.85	7.19	7.49	5.97	6.26	7.19
Temp	Degree C	Quarterly	-	20.2	24.8	18.7	18.6	21.7	21.4	18.0	17.6	20.0

Additional testing to the licence conditions is highlighted in blue text.

Value exceeds adopted trigger values

Limit of Reporting too high for adopted trigger value

BARGO WASTE MANAGEMENT CENTRE ANTHONY ROAD BARGO - SAMPLING RESULTS

SAMPLING ON 20TH MAY 2015

EPA LICENCE NUMBER 6061

<http://www.environment.nsw.gov.au/iprseopp/>

WOLLONDILLY SHIRE COUNCIL

62-64 Menangle Street PICTON NSW 2571

SAMPLING LOCATIONS				EPA Point 1	EPA Point 2	EPA Point 3	EPA Point 4	EPA Point 5	EPA Point 6	EPA Point 7	EPA Point 8	-
Pollutant	Unit of Measure	Monitoring Frequency	Trigger value	Ground Water Bore BA1 NE Corner	Surface Water Pond NE Corner BA3	Dog Trap Creek Upstream BA4	Dog Trap Creek Downstream BA5	Surface Water Pond SE Corner BA8	Drainage Line BA9	Ground Water Up Gradient Bore BA6 SW Corner	Ground Water Down Gradient Bore BA7 SE Corner	Dog Trap Creek below landfill drainage line BA10
Alkalinity (as calcium carbonate)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Aluminium	milligrams per litre	Annual / Quarterly	0.055	not required	not required	0.14	0.16	not required	not required	not required	not required	0.12
Ammonia (as nitrogen)	milligrams per litre	Quarterly	0.9	56	3.0	Less than 0.05	0.18	Less than 0.05	Less than 0.05	0.06	0.08	Less than 0.05
Arsenic	milligrams per litre	Annual / Quarterly	0.01	not required	not required	Less than 0.005	Less than 0.005	not required	not required	not required	not required	Less than 0.005
Barium	milligrams per litre	Annual / Quarterly	2	not required	not required	0.019	0.02	not required	not required	not required	not required	0.048
Benzene	milligrams per litre	Annual	0.001	not required	not required	not required	not required	not required	not required	not required	not required	not required
Biological Oxygen Demand (BOD)	milligrams per litre	Quarterly	-	not required	Less than 2	Less than 2	3.3	2.3	not required	not required	not required	Less than 2
Cadmium	milligrams per litre	Annual / Quarterly	0.0002	not required	not required	Less than 0.005	Less than 0.005	not required	not required	not required	not required	Less than 0.005
Calcium	milligrams per litre	Annual	1000	not required	not required	not required	not required	not required	not required	not required	not required	not required
Chemical Oxygen Demand (COD)	milligrams per litre	Quarterly	-	not required	not required	46	41	48	not required	not required	not required	35
Chloride (Cl)	milligrams per litre	Annual	175	not required	not required	not required	not required	not required	not required	not required	not required	not required
Chlorinated Volatile Compounds (CVCs)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Chromium (hexavalent)	milligrams per litre	Annual / Quarterly	0.001	not required	not required	Less than 0.005	Less than 0.005	not required	not required	not required	not required	Less than 0.005
Chromium (total)	milligrams per litre	Annual / Quarterly	0.0033	not required	not required	Less than 0.02	Less than 0.02	not required	not required	not required	not required	Less than 0.02
Cobalt	milligrams per litre	Annual / Quarterly	0.0014	not required	not required	Less than 0.005	Less than 0.005	not required	not required	not required	not required	Less than 0.005
Copper	milligrams per litre	Annual / Quarterly	0.0014	not required	not required	Less than 0.005	Less than 0.005	not required	not required	not required	not required	Less than 0.005
Ethylbenzene	milligrams per litre	Annual	0.08	not required	not required	not required	not required	not required	not required	not required	not required	not required
Fluoride	milligrams per litre	Annual	1	not required	not required	not required	not required	not required	not required	not required	not required	not required
Lead	milligrams per litre	Annual / Quarterly	0.0034	not required	not required	Less than 0.005	Less than 0.005	not required	not required	not required	not required	Less than 0.005
Magnesium	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Manganese	milligrams per litre	Annual / Quarterly	0.2	not required	not required	0.011	0.017	not required	not required	not required	not required	Less than 0.005
Mercury	milligrams per litre	Annual / Quarterly	0.00006	not required	not required	Less than 0.0005	Less than 0.0005	not required	not required	not required	not required	Less than 0.0005
Nitrate (as Nitrogen)	milligrams per litre	Annual / Quarterly	0.16	not required	not required	Less than 0.01	7.0	not required	not required	not required	not required	3.6
Nitrite (as Nitrogen)	milligrams per litre	Annual / Quarterly	0.9	not required	not required	Less than 0.01	0.4	not required	not required	not required	not required	Less than 0.01
Organochlorine Pesticides (OCP)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Organophosphorus Pesticides (OPP)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Polycyclic Aromatic Hydrocarbons (PAH)	milligrams per litre	Annual	0.00001	not required	not required	not required	not required	not required	not required	not required	not required	not required
Potassium	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Semi-volatile Organic Compounds (SVOCs)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Sodium	milligrams per litre	Annual	230	not required	not required	not required	not required	not required	not required	not required	not required	not required
Sulphate (as SO ₄)	milligrams per litre	Annual	1000	not required	not required	not required	not required	not required	not required	not required	not required	not required
Toluene	milligrams per litre	Annual	0.18	not required	not required	not required	not required	not required	not required	not required	not required	not required
Total Dissolved Solids (TDS)	milligrams per litre	Quarterly	2000	970	760	82	460	210	1500	340	350	530
Total Iron	milligrams per litre	Annual	0.2	not required	not required	not required	not required	not required	not required	not required	not required	not required
Total Kjeldahl Nitrogen	milligrams per litre	Quarterly	-	not required	not required	0.2	1.6	not required	not required	not required	not required	0.5
Total Nitrogen	milligrams per litre	Quarterly	0.25	not required	not required	0.21	9	not required	not required	not required	not required	4.05
Total Organic Carbon (TOC)	milligrams per litre	Quarterly	-	110	40	7.2	18	16	40	15	11	13
Total Petroleum Hydrocarbons (TPH)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Total Phenolics	milligrams per litre	Annual	0.32	not required	not required	not required	not required	not required	not required	not required	not required	not required
Total Phosphorus	milligrams per litre	Annual / Quarterly	0.02	not required	not required	Less than 0.05	Less than 0.05	not required	not required	not required	not required	Less than 0.05
Total Suspended Solids (TSS)	milligrams per litre	Quarterly	50	not required	Less than 5	Less than 5	Less than 5	Less than 5	not required	not required	not required	Less than 5
Volatile Organic Compounds (VOCs)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Xylenes	milligrams per litre	Annual	0.075	not required	not required	not required	not required	not required	not required	not required	not required	not required
Zinc	milligrams per litre	Annual / Quarterly	0.008	not required	not required	< 0.005	0.009	not required	not required	not required	not required	0.009
FIELD MEASUREMENTS												
Standing Water Level	metres below ground surface	Quarterly	-	0.67	not required	not required	not required	not required	not required	36.9	11.564	not required
Electrical Conductivity	microsiemens per centimetre	Quarterly	30-350	2188	1125	128.4	760	300	2196	745	143.1	210.2
PH	PH Units	Quarterly	6.5-8	7.04	8	6.61	7.55	6.6	7.22	5.63	5.78	6.36
Temp	Degree C	Quarterly	-	17.4	18.0	13.3	13.0	16.2	17.6	16.0	16.5	13.3

Additional testing to the licence conditions is highlighted in blue text.

Value exceeds adopted trigger values

Unit of Reporting too high for adopted trigger value

BARGO WASTE MANAGEMENT CENTRE ANTHONY ROAD BARGO - SAMPLING RESULTS

SAMPLING ON 11TH AUGUST 2015

EPA LICENCE NUMBER 6061

<http://www.environment.nsw.gov.au/prpocpp/>

WOLLONDILLY SHIRE COUNCIL

62-64 Menangle Street PICTON NSW 2571

SAMPLING LOCATIONS				EPA Point 1	EPA Point 2	EPA Point 3	EPA Point 4	EPA Point 5	EPA Point 6	EPA Point 7	EPA Point 8	-
Pollutant	Unit of Measure	Monitoring Frequency	Trigger value	Ground Water Bore BA1 NE Corner	Surface Water Pond NE Corner BA3	Dog Trap Creek Upstream BA4	Dog Trap Creek Downstream BA5	Surface Water Pond SE Corner BA8	Drainage Line BA9	Ground Water Up Gradient Bore BA6 SW Corner	Ground Water Down Gradient Bore BA7 SE Corner	Dog Trap Creek below landfill drainage line BA10
Alkalinity (as calcium carbonate)	milligrams per litre	Annual	-	880	231	not required	not required	not required	470	43	31	not required
Aluminium	milligrams per litre	Annual / Quarterly	0.055	less than 0.05	less than 0.05	0.15	0.15	not required	less than 0.05	less than 0.05	less than 0.05	0.15
Ammonia (as nitrogen)	milligrams per litre	Quarterly	0.9	50	less than 0.01	0.05	less than 0.01	0.02	less than 0.01	0.06	0.12	less than 0.01
Arsenic	milligrams per litre	Annual / Quarterly	0.01	0.001	0.001	less than 0.001	less than 0.001	not required	less than 0.001	0.005	0.003	less than 0.001
Barium	milligrams per litre	Annual / Quarterly	2	0.27	0.04	less than 0.02	0.07	not required	0.10	0.20	0.06	0.05
Benzene	milligrams per litre	Annual	0.001	less than 0.001	less than 0.001	not required	not required	not required	less than 0.001	less than 0.001	less than 0.001	not required
Biological Oxygen Demand (BOD)	milligrams per litre	Quarterly	-	not required	5.4	5.2	4.1	5.2	not required	not required	not required	5.6
Cadmium	milligrams per litre	Annual / Quarterly	0.0002	less than 0.0002	less than 0.0002	less than 0.0002	less than 0.0002	not required	0.0002	less than 0.0002	less than 0.0002	less than 0.0002
Calcium	milligrams per litre	Annual	1000	130	57	not required	not required	not required	170	6.0	1.3	not required
Chemical Oxygen Demand (COD)	milligrams per litre	Quarterly	-	not required	not required	less than 20	51	38	not required	not required	not required	35
Chloride (Cl)	milligrams per litre	Annual	175	160	88	not required	not required	not required	210	210	31	not required
Chlorinated Volatile Compounds (CVCs)	milligrams per litre	Annual	-	less than 0.003	not required	not required	not required	not required	less than 0.003	less than 0.003	less than 0.003	not required
Chromium (hexavalent)	milligrams per litre	Annual / Quarterly	0.001	less than 0.001	less than 0.001	less than 0.001	less than 0.001	not required	less than 0.001	less than 0.001	less than 0.001	less than 0.001
Chromium (total)	milligrams per litre	Annual / Quarterly	0.0033	0.003	less than 0.001	less than 0.001	0.001	not required	less than 0.001	less than 0.001	less than 0.001	less than 0.001
Cobalt	milligrams per litre	Annual / Quarterly	0.0014	0.001	less than 0.001	less than 0.001	less than 0.001	not required	less than 0.001	0.033	0.006	less than 0.001
Copper	milligrams per litre	Annual / Quarterly	0.0014	less than 0.001	0.002	less than 0.001	0.001	not required	0.008	less than 0.001	less than 0.001	0.001
Ethylbenzene	milligrams per litre	Annual	0.08	less than 0.001	less than 0.001	not required	not required	not required	less than 0.001	less than 0.001	less than 0.001	not required
Fluoride	milligrams per litre	Annual	1	less than 0.5	less than 0.5	not required	not required	not required	less than 0.5	less than 0.5	less than 0.5	not required
Lead	milligrams per litre	Annual / Quarterly	0.0034	less than 0.001	less than 0.001	less than 0.001	less than 0.001	not required	less than 0.001	less than 0.001	less than 0.001	less than 0.001
Magnesium	milligrams per litre	Annual	-	45	43	not required	not required	not required	47	18	3.2	not required
Manganese	milligrams per litre	Annual / Quarterly	0.2	0.33	less than 0.005	0.008	0.017	not required	0.022	1.1	0.29	0.026
Mercury	milligrams per litre	Annual / Quarterly	0.00006	less than 0.0001	less than 0.0001	less than 0.0001	less than 0.0001	not required	less than 0.0001	less than 0.0001	less than 0.0001	less than 0.0001
Nitrate (as Nitrogen)	milligrams per litre	Annual / Quarterly	0.16	less than 0.02	1.4	less than 0.02	9.7	not required	12	0.09	0.06	4.0
Nitrite (as Nitrogen)	milligrams per litre	Annual / Quarterly	0.9	0.04	not required	less than 0.02	less than 0.02	not required	less than 0.02	less than 0.02	less than 0.02	less than 0.02
Organochlorine Pesticides (OCP)	milligrams per litre	Annual	-	less than limit of reporting	less than limit of reporting	not required	not required	not required	less than limit of reporting	less than limit of reporting	less than limit of reporting	not required
Organophosphorus Pesticides (OPP)	milligrams per litre	Annual	-	less than limit of reporting	less than limit of reporting	not required	not required	not required	less than limit of reporting	less than limit of reporting	less than limit of reporting	not required
Polycyclic Aromatic Hydrocarbons (PAH)	milligrams per litre	Annual	0.00001	less than 0.001	not required	not required	not required	not required	less than 0.001	less than 0.001	less than 0.001	not required
Potassium	milligrams per litre	Annual	-	44	22	not required	not required	not required	53	2.4	2.8	not required
Semi-volatile Organic Compounds (SVOCs)	milligrams per litre	Annual	-	less than limit of reporting	not required	not required	not required	not required	less than limit of reporting	0.02	less than limit of reporting	not required
Sodium	milligrams per litre	Annual	230	120	79	not required	not required	not required	130	83	20	not required
Sulphate (as SO ₄)	milligrams per litre	Annual	1000	less than 15	183	not required	not required	not required	216	less than 15	less than 15	not required
Toluene	milligrams per litre	Annual	0.18	less than 0.001	less than 0.001	not required	not required	not required	less than 0.001	less than 0.001	less than 0.001	not required
Total Dissolved Solids (TDS)	milligrams per litre	Quarterly	2000	950	630	73	620	240	1200	370	95	550
Total Iron	milligrams per litre	Annual	0.2	not required	0.07	not required	not required	not required	not required	not required	not required	not required
Total Kjeldahl Nitrogen	milligrams per litre	Quarterly	-	not required	not required	less than 0.2	2.2	not required	not required	not required	not required	0.8
Total Nitrogen	milligrams per litre	Quarterly	0.25	not required	not required	less than 0.2	9.7	not required	not required	not required	not required	4.0
Total Organic Carbon (TOC)	milligrams per litre	Quarterly	-	49	31	12	22	14	28	7.3	9.3	less than 5
Total Petroleum Hydrocarbons (TPH)	milligrams per litre	Annual	-	0.1	less than limit of reporting	not required	not required	not required	less than limit of reporting	less than limit of reporting	less than limit of reporting	not required
Total Phenolics	milligrams per litre	Annual	0.32	less than 0.05	less than 0.05	not required	not required	not required	less than 0.05	less than 0.05	less than 0.05	not required
Total Phosphorus	milligrams per litre	Annual / Quarterly	0.02	not required	less than 0.05	less than 0.05	less than 0.05	not required	not required	not required	not required	less than 0.05
Total Suspended Solids (TSS)	milligrams per litre	Quarterly	50	not required	less than 1	less than 1	7.9	11	not required	not required	not required	less than 1
Volatile Organic Compounds (VOCs)	milligrams per litre	Annual	-	less than 0.003	not required	not required	not required	not required	less than 0.003	less than 0.003	less than 0.003	not required
Xylenes	milligrams per litre	Annual	0.075	less than 0.003	less than 0.003	not required	not required	not required	less than 0.003	less than 0.003	less than 0.003	not required
Zinc	milligrams per litre	Annual / Quarterly	0.008	0.043	0.002	0.001	0.007	not required	0.19	0.15	0.056	0.014
FIELD MEASUREMENTS												
Standing Water Level	metres below ground surface	Quarterly	-	0.797	not required	not required	not required	not required	not required	37.0	11.590	not required
Electrical Conductivity	microsiemens per centimetre	Quarterly	30-350	1670	775	107	736	318	1452	611	144	704
PH	PH Units	Quarterly	6.5-8	7.02	8.27	7.99	7.75	7.16	7.45	6.02	6.20	8.07
Temp	Degree C	Quarterly	-	13.1	12.8	9.8	10.4	13.2	14.9	16.5	17.2	11.3

Additional testing to the licence conditions is highlighted in blue text.

Value exceeds adopted trigger values
 Limit of Reporting too high for adopted trigger value

BARGO WASTE MANAGEMENT CENTRE ANTHONY ROAD BARGO - SAMPLING RESULTS

SAMPLING ON 10TH NOVEMBER 2015

EPA LICENCE NUMBER 6061

<http://www.environment.nsw.gov.au/iprceopp/>

WOLLONDILLY SHIRE COUNCIL

62-64 Menangle Street PICTON NSW 2571

SAMPLING LOCATIONS				EPA Point 1	EPA Point 2	EPA Point 3	EPA Point 4	EPA Point 5	EPA Point 6	EPA Point 7	EPA Point 8	-
Pollutant	Unit of Measure	Monitoring Frequency	Trigger value	Ground Water Bore BA1 NE Corner	Surface Water Pond NE Corner BA3	Dog Trap Creek Upstream BA4	Dog Trap Creek Downstream BA5	Surface Water Pond SE Corner BA8	Drainage Line BA9	Ground Water Up Gradient Bore BA6 SW Corner	Ground Water Down Gradient Bore BA7 SE Corner	Dog Trap Creek below landfill drainage line BA10
Alkalinity (as calcium carbonate)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Aluminium	milligrams per litre	Annual / Quarterly	0.055	not required	not required	0.26	0.12	not required	not required	not required	not required	0.33
Ammonia (as nitrogen)	milligrams per litre	Quarterly	0.9	62	0.08	0.02	Less than 0.01	Less than 0.01	Less than 0.01	0.04	0.11	Less than 0.01
Arsenic	milligrams per litre	Annual / Quarterly	0.01	not required	not required	Less than 0.001	Less than 0.001	not required	not required	not required	not required	Less than 0.001
Barium	milligrams per litre	Annual / Quarterly	2	not required	not required	0.02	0.07	not required	not required	not required	not required	0.05
Benzene	milligrams per litre	Annual	0.001	not required	not required	not required	not required	not required	not required	not required	not required	not required
Biological Oxygen Demand (BOD)	milligrams per litre	Quarterly	-	not required	7.0	7.8	4.2	6.1	not required	not required	not required	2.8
Cadmium	milligrams per litre	Annual / Quarterly	0.0002	not required	not required	Less than 0.0002	Less than 0.0002	not required	not required	not required	not required	Less than 0.0002
Calcium	milligrams per litre	Annual	1000	not required	not required	not required	not required	not required	not required	not required	not required	not required
Chemical Oxygen Demand (COD)	milligrams per litre	Quarterly	-	not required	not required	Less than 20	75	56	not required	not required	not required	37
Chloride (Cl)	milligrams per litre	Annual	175	not required	not required	not required	not required	not required	not required	not required	not required	not required
Chlorinated Volatile Compounds (CVCs)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Chromium (hexavalent)	milligrams per litre	Annual / Quarterly	0.001	not required	not required	Less than 0.001	Less than 0.001	not required	not required	not required	not required	Less than 0.001
Chromium (total)	milligrams per litre	Annual / Quarterly	0.0033	not required	not required	0.002	0.003	not required	not required	not required	not required	0.003
Cobalt	milligrams per litre	Annual / Quarterly	0.0014	not required	not required	Less than 0.001	Less than 0.001	not required	not required	not required	not required	Less than 0.001
Copper	milligrams per litre	Annual / Quarterly	0.0014	not required	not required	0.001	0.002	not required	not required	not required	not required	0.002
Ethylbenzene	milligrams per litre	Annual	0.08	not required	not required	not required	not required	not required	not required	not required	not required	not required
Fluoride	milligrams per litre	Annual	1	not required	not required	not required	not required	not required	not required	not required	not required	not required
Lead	milligrams per litre	Annual / Quarterly	0.0034	not required	not required	Less than 0.001	Less than 0.001	not required	not required	not required	not required	Less than 0.001
Magnesium	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Manganese	milligrams per litre	Annual / Quarterly	0.2	not required	not required	0.014	0.013	not required	not required	not required	not required	0.063
Mercury	milligrams per litre	Annual / Quarterly	0.00006	not required	not required	Less than 0.0003	Less than 0.0003	not required	not required	not required	not required	Less than 0.0003
Nitrate (as Nitrogen)	milligrams per litre	Annual / Quarterly	0.16	not required	not required	Less than 0.02	5.8	not required	not required	not required	not required	1.6
Nitrite (as Nitrogen)	milligrams per litre	Annual / Quarterly	0.9	not required	not required	0.03	0.13	not required	not required	not required	not required	0.03
Organochlorine Pesticides (OCP)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Organophosphorus Pesticides (OPP)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Polycyclic Aromatic Hydrocarbons (PAH)	milligrams per litre	Annual	0.00001	not required	not required	not required	not required	not required	not required	not required	not required	not required
Potassium	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Semi-volatile Organic Compounds (SVOCs)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Sodium	milligrams per litre	Annual	230	not required	not required	not required	not required	not required	not required	not required	not required	not required
Sulphate (as SO ₄)	milligrams per litre	Annual	1000	not required	not required	not required	not required	not required	not required	not required	not required	not required
Toluene	milligrams per litre	Annual	0.18	not required	not required	not required	not required	not required	not required	not required	not required	not required
Total Dissolved Solids (TDS)	milligrams per litre	Quarterly	2000	1100	570	100	500	250	1300	340	120	510
Total Iron	milligrams per litre	Annual	0.2	not required	not required	not required	not required	not required	not required	not required	not required	not required
Total Kjeldahl Nitrogen	milligrams per litre	Quarterly	-	not required	not required	2.7	1	not required	not required	not required	not required	1.1
Total Nitrogen	milligrams per litre	Quarterly	0.25	not required	not required	2.7	6.9	not required	not required	not required	not required	2.7
Total Organic Carbon (TOC)	milligrams per litre	Quarterly	-	56	33	6.9	20	18	27	7.5	7.9	9.8
Total Petroleum Hydrocarbons (TPH)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Total Phenolics	milligrams per litre	Annual	0.32	not required	not required	not required	not required	not required	not required	not required	not required	not required
Total Phosphorus	milligrams per litre	Annual / Quarterly	0.02	not required	not required	Less than 0.05	Less than 0.05	not required	not required	not required	not required	Less than 0.05
Total Suspended Solids (TSS)	milligrams per litre	Quarterly	50	not required	11	4	6.4	12	not required	not required	not required	24
Volatile Organic Compounds (VOCs)	milligrams per litre	Annual	-	not required	not required	not required	not required	not required	not required	not required	not required	not required
Xylenes	milligrams per litre	Annual	0.075	not required	not required	not required	not required	not required	not required	not required	not required	not required
Zinc	milligrams per litre	Annual / Quarterly	0.008	not required	not required	0.009	0.008	not required	not required	not required	not required	0.013
FIELD MEASUREMENTS												
Standing Water Level	metres below ground surface	Quarterly	-	0.842	not required	not required	not required	not required	not required	36.8	11.646	not required
Electrical Conductivity	microsiemens per centimetre	Quarterly	30-350	1906	1047	179	903	461	1936	678	154	706
PH	PH Units	Quarterly	6.5-8	7.00	8.48	8.18	8.10	7.41	7.63	6.13	6.42	7.79
Temp	Degree C	Quarterly	-	17.8	28.6	22.9	19.7	28.2	23.3	17.6	18.0	21.3

Additional testing to the licence conditions is highlighted in blue text.

Value exceeds adopted trigger values

Unit of Reporting too high for adopted trigger value