SAMPLING ON 27 FEBRUARY 2018 EPA LICENCE NUMBER 6061

http://www.environment.nsw.gov.au/prpoeopp/ WOLLONDILLY SHIRE COUNCIL 62-64 Menangle Street PICTON NSW 2571

			62-	64 Menangle S						I		
Pollutant	SAMPLING 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	DTC Dog Trap Creek below landfill drainage line BA10
Alkalinity (as calcium carbonate)	milligrams per litre	Yearly	-	not required	not required	not required	not required	not required	not required	not required	not required	Dry
Aluminium	milligrams per litre	Yearly	0.055	not required	not required	not tested	not tested	not required	not tested	not required	not required	Dry
Ammonia (as nitrogen)	milligrams per litre	Quarterly	0.9	80	0.044	0.009	0.032	0.023	0.015	0.058	0.069	Dry
Arsenic	milligrams per litre	Yearly	0.010 / 0.024	not required	not required	not tested	not tested	not required	not tested	not required	not required	Dry
Barium	milligrams per litre	Yearly	2	not required	not required	not tested	not tested	not required	not tested	not required	not required	Dry
Benzene	milligrams per litre	Yearly	0.001 / 0.950	not required	not required	not required	not required	not required	not required	not required	not required	Dry
Biological Oxygen Demand (BOD)	milligrams per litre	Quarterly	-	not required	less than 5	less than 5	5	11	not required	not required	not required	Dry
Cadmium	milligrams per litre	Yearly	0.0002	not required	not required	not tested	not tested	not required	not tested	not required	not required	Dry
Calcium	milligrams per litre	Yearly	1000	not required	not required	not required	not required	not required	not required	not required	not required	Dry
Chemical Oxygen Demand (COD)	milligrams per litre	Quarterly	-	not required	not required	110	80	80	not required	not required	not required	Dry
Chloride (CI)	milligrams per litre	Yearly	350	not required	not required	not required	not required	not required	not required	not required	not required	Dry
Chlorinated Volatile Compounds (CVCs)	milligrams per litre	Yearly	-	not required	not required	not required	not required	not required	not required	not required	not required	Dry
Chromium (hexavalent)	milligrams per litre	Yearly	0.001	not required	not required	not tested	not tested	not required	not tested	not required	not required	Dry
Chromium (total)	milligrams per litre	Yearly	0.0033	not required	not required	not tested	not tested	not required	not tested	not required	not required	Dry
Cobalt	milligrams per litre	Yearly	0.0014	not required	not required	not tested	not tested	not required	not tested	not required	not required	Dry
Copper	milligrams per litre	Yearly	0.0014	not required	not required	not tested	not tested	not required	not tested	not required	not required	Dry
Ethylbenzene	milligrams per litre	Yearly	0.08	not required	not required	not required	not required	not required	not required	not required	not required	Dry
Fluoride	milligrams per litre	Yearly	1	not required	not required	not required	not required	not required	not required	not required	not required	Dry
Lead	milligrams per litre	Yearly	0.0034	not required	not required	not tested	not tested	not required	not tested	not required	not required	Dry
Magnesium	milligrams per litre	Yearly	-	not required	not required	not required	not tested	not required	not required	not required	not required	Dry
Manganese	milligrams per litre	Yearly	0.2 / 1.9	not required	not required	not tested	not tested	not required	not tested	not required	not required	Dry
Mercury	milligrams per litre	Yearly	0.00006	not required	not required	not tested	not tested	not required	not tested	not required	not required	Dry
Nitrate (as Nitrogen)	milligrams per litre	Yearly	2.40	not required	not required	not tested	not tested	not required	not tested	not required	not required	Dry
Nitrite (as Nitrogen)	milligrams per litre	Yearly	0.9	not required	not required	not tested	not tested	not required	not tested	not required	not required	Dry
Organochlorine Pesticides (OCP)	milligrams per litre	Yearly	Limit of reporting	not required	not required	not required	not required	not required	not required	not required	not required	Dry
Organophosphoru s Pesticides (OPP) Polycyclic	milligrams per litre	Yearly	Limit of reporting	not required	not required	not required	not required	not required	not required	not required	not required	Dry
Aromatic Hydrocarbons (PAH)	milligrams per litre	Yearly	0.00001	not required	not required	not required	not required	not required	not required	not required	not required	Dry
Perfluorooctane sulfonate (PFOS)	micrograms per litre ¹	Quarterly	0.13³	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	Dry
Perfluorooctanoic acid (PFOA)	micrograms per litre ¹	Quarterly	0.56² / 220³	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	Dry
Sum of Perfluorooctane sulfonate and Perfluorohexane sulfonate (PFOS+PFHxS)	micrograms per litre ¹	Quarterly	0.07²	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	Dry
Potassium	milligrams per litre	Yearly	-	not required	not required	not required	not required	not required	not required	not required	not required	Dry
Semi-volatile Organic Compounds (SVOCs)	milligrams per litre	Yearly	Limit of reporting	not required	not required	not required	not required	not required	not required	not required	not required	Dry
Sodium	milligrams per litre	Yearly	230	not required	not required	not required	not required	not required	not required	not required	not required	Dry
Sulphate (as SO4)	milligrams per litre	Yearly	1000	not required	not required	not required	not required	not required	not required	not required	not required	Dry
Toluene	milligrams per litre	Yearly	0.18	not required	not required	not required	not required	not required	not required	not required	not required	Dry
Total Disolved Solids (TDS)	milligrams per litre	Quarterly	2000	1400	640	84	280	610	1100	830	730	Dry
Total Iron	milligrams per litre	Yearly	0.2	not required	not required	not required	not required	not required	not required	not required	not required	Dry

milligrams per litre	Not tested	-	Not tested	Not tested	Not tested	Not tested	Not tested	Not tested	Not tested	Not tested	Dry
milligrams per litre	Not tested	0.25	Not tested	Not tested	Not tested	Not tested	Not tested	Not tested	Not tested	Not tested	Dry
milligrams per litre	Quarterly	-	95	39	54	41	43	32	28	7	Dry
milligrams per litre	Yearly	Limit of reporting	not required	not required	not required	not required	not required	not required	not required	not required	Dry
milligrams per litre	Yearly	0.32	not required	not required	not required	not required	not required	not required	not required	not required	Dry
milligrams per litre	Yearly	0.02	not required	not required	not tested	not tested	not required	not tested	not required	not required	Dry
milligrams per litre	Quarterly	50	not required	11	less than 10	less than 10	21	not required	not required	not required	Dry
milligrams per litre	Yearly	Limit of reporting	not required	not required	not required	not required	not required	not required	not required	not required	Dry
milligrams per litre	Yearly	0.075	not required	not required	not required	not required	not required	not required	not required	not required	Dry
milligrams per litre	Yearly	0.008	not required	not required	not tested	not tested	not required	not tested	not required	not required	Dry
metres below top of casing	Quarterly	-	1.55	not required	not required	not required	not required	not required	37.61	15.21	Dry
microsiemens per centimetre	Quarterly	30-350	735	1097	771	469	893	1838	897	726	Dry
PH Units	Quarterly	6.5-8	7.16	8.29	5.89	7.75	7.23	7.39	4.83	5.11	Dry
Degree C	Quarterly	-	28.4	25.9	20.3	22.4	25.8	21.9	29.4	20.1	Dry
	milligrams per litre	milligrams per litre Quarterly milligrams per litre Quarterly milligrams per litre Yearly milligrams per litre Quarterly	milligrams per litre	milligrams per litre	milligrams per litre Quarterly	milligrams per litre	milligrams per litre Not tested 0.25 Not tested Not required Not	milligrams per litre			

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EPL requires quarterly or yearly monitoring of this mandatory parameter
EPL requirements not met
Additional monitoring of parameter was analysed beyond EPL requirements (non-mandatory)
Reported concentration exceeds adopted trigger value - trigger 1 where applicable
Reported concentration exceeds adopted trigger value - trigger 2 where applicable

Limit of reporting exceed adopted trigger value

1 Micrograms per litre ($\mu g/L$) is 0.001 milligrams per litre (mg/L)

2 NEPM 2018, Table 1: Health-based guidance values for use in site investigations in Australia

3 NEPM 2018, Table 5: Aquatic ecosystems: freshwater and marine water guideline values (exposure scenario: freshwater 95% species protection – slightly to moderately disturbed systems).

SAMPLING ON 16 MAY 2018 EPA LICENCE NUMBER 6061

http://www.environment.nsw.gov.au/prpoeopp/ WOLLONDILLY SHIRE COUNCIL 62-64 Menangle Street PICTON NSW 2571

	OAMBI INO	LOCATIONS	02-	-64 Menangle S EPA Point 1	EPA Point 2			EPA Point 5		EPA Point 7	EPA Point 8	DTC
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	Yearly	-	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Aluminium	milligrams per litre	Yearly	0.055	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Ammonia (as nitrogen)	milligrams per litre	Quarterly	0.9	87	0.044	Dry	Dry	Dry	Dry	Dry	0.14	Dry
Arsenic	milligrams per litre	Yearly	0.010 / 0.024	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Barium	milligrams per litre	Yearly	2	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Benzene	milligrams per litre	Yearly	0.001 / 0.950	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Biological Oxygen Demand (BOD)	milligrams per litre	Quarterly	-	not required	less than 5	Dry	Dry	Dry	Dry	Dry	not required	Dry
Cadmium	milligrams per litre	Yearly	0.0002	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Calcium	milligrams per litre	Yearly	1000	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Chemical Oxygen Demand (COD)	milligrams per litre	Quarterly	-	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Chloride (CI)	milligrams per litre	Yearly	350	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Chlorinated Volatile Compounds (CVCs)	milligrams per litre	Yearly	-	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Chromium (hexavalent)	milligrams per litre	Yearly	0.001	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Chromium (total)	milligrams per litre	Yearly	0.0033	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Cobalt	milligrams per litre	Yearly	0.0014	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Copper	milligrams per litre	Yearly	0.0014	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Ethylbenzene	milligrams per litre	Yearly	0.08	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Fluoride	milligrams per litre	Yearly	1	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Lead	milligrams per litre	Yearly	0.0034	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Magnesium	milligrams per litre	Yearly	-	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Manganese	milligrams per litre	Yearly	0.2 / 1.9	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Mercury	milligrams per litre	Yearly	0.00006	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Nitrate (as Nitrogen)	milligrams per litre	Yearly	2.40	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Nitrite (as Nitrogen)	milligrams per litre	Yearly	0.9	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Organochlorine Pesticides (OCP)	milligrams per litre	Yearly	Limit of reporting	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Organophosphoru s Pesticides (OPP)	milligrams per litre	Yearly	Limit of reporting	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Polycyclic Aromatic Hydrocarbons (PAH)	milligrams per litre	Yearly	0.00001	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Perfluorooctane sulfonate (PFOS)	micrograms per litre ¹	Quarterly	0.13³	not tested	not tested	Dry	Dry	Dry	Dry	Dry	not tested	Dry
Perfluorooctanoic acid (PFOA)	micrograms per litre ¹	Quarterly	0.56² / 220³	not tested	not tested	Dry	Dry	Dry	Dry	Dry	not tested	Dry
Sum of Perfluorooctane sulfonate and Perfluorohexane sulfonate (PFOS+PFHxS)	micrograms per litre ¹	Quarterly	0.072	not tested	not tested	Dry	Dry	Dry	Dry	Dry	not tested	Dry
Potassium	milligrams per litre	Yearly	-	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Semi-volatile Organic Compounds (SVOCs)	milligrams per litre	Yearly	Limit of reporting	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Sodium	milligrams per litre	Yearly	230	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Sulphate (as SO4)	milligrams per litre	Yearly	1000	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Toluene	milligrams per litre	Yearly	0.18	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Total Disolved Solids (TDS)	milligrams per litre	Quarterly	2000	1600	750	Dry	Dry	Dry	Dry	Dry	860	Dry
Total Iron	milligrams per litre	Yearly	0.2	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry

Total Kjeldahl Nitrogen	milligrams per litre	Not tested	-	Not tested	Not tested	Dry	Dry	Dry	Dry	Dry	Not tested	Dry
Total Nitrogen	milligrams per litre	Not tested	0.25	Not tested	Not tested	Dry	Dry	Dry	Dry	Dry	Not tested	Dry
Total Organic Carbon (TOC)	milligrams per litre	Quarterly	-	90	28	Dry	Dry	Dry	Dry	Dry	8	Dry
Total Petroleum Hydrocarbons (TPH)	milligrams per litre	Yearly	Limit of reporting	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Total Phenolics	milligrams per litre	Yearly	0.32	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Total Phosphorus	milligrams per litre	Yearly	0.02	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Total Suspended Solids (TSS)	milligrams per litre	Quarterly	50	not required	16	Dry	Dry	Dry	Dry	Dry	not required	Dry
Volatile Organic Compounds (VOCs)	milligrams per litre	Yearly	Limit of reporting	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Xylenes	milligrams per litre	Yearly	0.075	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
Zinc	milligrams per litre	Yearly	0.008	not required	not required	Dry	Dry	Dry	Dry	Dry	not required	Dry
FIELD MEASUREMENTS												
Standing Water Level	metres below top of casing	Quarterly	-	1.63	not required	Dry	Dry	Dry	Dry	Dry	17.27	Dry
Electrical Conductivity	microsiemens per centimetre	Quarterly	30-350	3180	1317	Dry	Dry	Dry	Dry	Dry	1810	Dry
PH	PH Units	Quarterly	6.5-8	7.24	7.84	Dry	Dry	Dry	Dry	Dry	4.06	Dry
Temp	Degree C	Quarterly	-	18.5	14.1	Dry	Dry	Dry	Dry	Dry	17	Dry

Table	note
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EPL requires quarterly or yearly monitoring of this mandatory parameter

EPL requirements not met

Additional parameter/location analysed beyond EPL requirements (non-mandatory)

Reported concentration exceeds adopted trigger value - trigger 1 where applicable

Reported concentration exceeds adopted trigger value - trigger 2 where applicable Limit of reporting exceed adopted trigger value

- 1 Micrograms per litre ($\mu g/L$) is 0.001 milligrams per litre (mg/L)
- 2 NEPM 2018, Table 1: Health-based guidance values for use in site investigations in Australia
- 3 NEPM 2018, Table 5: Aquatic ecosystems: freshwater and marine water guideline values (exposure scenario: freshwater 95% species protection slightly to moderately disturbed systems).

SAMPLING ON 20 AUGUST 2018

EPA LICENCE NUMBER 6061

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 DTC Dog Trap Creek elow landf Ground Water Bore BA1 NE Surface Water Pond NE Corner BA3 Dog Trap Creek Downstrea BA5 Surface Water Pond SE Corner BA8 Water Down Gradient ore BA7 SE Dog Trap Creek Upstream BA4 Water Up Gradient Bore BA6 SW Corner Monitoring Frequency Drainage Line BA9 Pollutant Unit of Measure Trigger value Corner BA10 Corner Alkalinity (as milligrams per litre Yearly 1300 190 Dry Dry Dry Dry 24 less than 20 Dry carbonate) milligrams per litre Yearly 0.055 ess than 0.05 0.07 Dry Dry Dry Dry Ammonia (as 99 0.1 0.07 milligrams per litre Quarterly 0.9 Dry Dry Dry Dry 0.18 Dry nitrogen) Arsenic milligrams per litre 0.010 / 0.024 0.02 0.002 Dry Dry Dry Dry 0.021 0.002 Dry 0.32 0.05 Barium 2 Dry Dry Dry Dry 0.48 0.6 Dry milligrams per litre Yearly less than 0.001 less tha 0.001 Benzene milligrams per litre Yearly 0.001 / 0.950 Dry Dry Dry Dry Dry Biological Oxyge Demand (BOD) less than 5 Dry Dry Dry Dry less than Cadmium milligrams per litre Yearly 0.0002 less than 0.0002 less than 0.0002 Dry Dry Dry Dry 0.0004 Dry Calcium 1000 Dry milligrams per litre Yearly 190 31 Dry Dry Dry Dry 23 6.2 Chemical Oxyge milligrams per litre Quarterly not required not required Drv Dry Dry Drv not required not required Dry Demand (COD) Chloride (CI) milligrams per litre Yearly 350 240 130 Dry Dry Dry Drv 528 300 Drv ess than limit ss than limi ss than lim Volatile milligrams per litre Yearly not required Dry Dry Dry Dry Dry Compounds reporting reporting reporting (CVCs) Chromium (hexavalent) 0.003 milligrams per litre Yearly 0.001 Dry Dry Dry less than Chromium (total) milligrams per litre Yearly 0.0033 0.006 Dry Dry Dry Dry 0.006 0.002 Dry 0.001 less than 0.001 0.0014 0.002 Dry Dry Dry Dry less than less than less than Copper milligrams per litre Yearly 0.0014 Dry Dry Dry Dry 0.028 Dry 0.001 0.001 0.001 less than 0.001 less than 0.001 less than 0.001 less than 0.001 Ethylbenzene milligrams per litre 0.08 Dry Dry Dry Dry Yearly Dry Fluoride milligrams per litre Yearly less than 0.5 less than 0.5 Drv Drv Drv Drv ess than 0.5 less than 0.5 Drv 0.0034 Dry Dry Dry 0.001 0.001 Magnesium milligrams per litre Yearly 63 59 Dry Dry Dry Dry 58 31 Dry Manganese milligrams per litre Yearly 0.2 / 1.9 0.29 0.02 Dry Dry Dry Dry 2.7 3.8 Dry Mercury milligrams per litre Yearly 0.00006 Dry Dry Dry Dry Dry ess than 0.02 0.03 14 2.40 Dry Dry Dry Nitrite (as milligrams per litre Yearly 0.9 ess than 0.02 not required Dry Dry Dry Dry ess than 0.02 ess than 0.0 Dry Nitrogen) es than limi ss than limi less than limit of ess than lim of Organochlorine Pesticides (OCP) milligrams per litre Yearly Limit of reporting Dry Dry Dry Dry Dry reporting reporting reporting Organophospho ss than limi milligrams per litre Yearly Limit of reporting Dry Dry of reporting Pesticides (OPP) reporting reporting reporting Polycyclic Aromatic Hydrocarbons (PAH) milligrams per litre 0.00001 Dry Dry Dry Yearly Dry reporting reporting Perfluorooctane sulfonate (PFOS) micrograms per litre¹ 0.133 not tested not tested not tested Quarterly not tested Dry Dry Dry Dry Dry micrograms per Quarterly 0.562 / 2203 not tested not tested Drv Dry Dry Dry not tested not tested Dry acid (PFOA) litre¹ sulfonate and micrograms per 0.07 Quarterly not tested not tested Dry Dry Dry Dry not tested not tested Dry Perfluorohexan litre (PEOS+PEHxS) 79 2.7 4.5 Drv Potassium milligrams per litre Yearly 31 Drv Drv Drv Drv Semi-volatile ss than limi ess than limit ss than limi Organic milligrams per litre Dry Dry Dry Dry Dry Yearly Limit of reporting not required Compounds reporting reporting reporting (SVOCs) milligrams per litre Yearly 140 Dry Dry Dry Dry Dry Sulphate (as SO4) milligrams per litre Yearly 1000 14 240 Drv Drv Drv Drv 10 Drv less than less than Toluene 0.18 milligrams per litre Yearly Dry Dry Dry Dry Dry 0.001 0.001 0.001 0.001 Total Disolved milligrams per litre Quarterly 2000 1700 830 Dry Dry Dry Dry 1000 750 Dry (TDS) 0.2 Total Iron milligrams per litre Yearly not required Dry not required not required Dry Dry Dry

Total Kjeldahl Nitrogen	milligrams per litre	Not tested	-	Not tested	Not tested	Dry	Dry	Dry	Dry	Not tested	Not tested	Dry
Total Nitrogen	milligrams per litre	Not tested	0.25	Not tested	Not tested	Dry	Dry	Dry	Dry	Not tested	Not tested	Dry
Total Organic Carbon (TOC)	milligrams per litre	Quarterly	-	55	41	Dry	Dry	Dry	Dry	14	14	Dry
Total Petroleum Hydrocarbons (TPH)	milligrams per litre	Yearly	Limit of reporting	less than limit of reporting	less than limit of reporting	Dry	Dry	Dry	Dry	less than limit of reporting	less than limit of reporting	Dry
Total Phenolics	milligrams per litre	Yearly	0.32	0.08	0.06	Dry	Dry	Dry	Dry	0.06	0.06	Dry
Total Phosphorus	milligrams per litre	Yearly	0.02	not required	less than 0.05	Dry	Dry	Dry	Dry	not required	not required	Dry
Total Suspended Solids (TSS)	milligrams per litre	Quarterly	50	not required	4.1	Dry	Dry	Dry	Dry	not required	not required	Dry
Volatile Organic Compounds (VOCs)	milligrams per litre	Yearly	Limit of reporting	0.009	not required	Dry	Dry	Dry	Dry	less than limit of reporting	less than limit of reporting	Dry
Xylenes	milligrams per litre	Yearly	0.075	less than 0.003	less than 0.003	Dry	Dry	Dry	Dry	less than 0.003	less than 0.003	Dry
Zinc	milligrams per litre	Yearly	0.008	0.01	less than 0.005	Dry	Dry	Dry	Dry	0.31	0.32	Dry
FIELD MEASUREMENTS												
Standing Water Level	metres below top of casing	Quarterly	-	1.05	not required	Dry	Dry	Dry	Dry	38.5	17.1	Dry
Electrical Conductivity	microsiemens per centimetre	Quarterly	30-350	2560	972	Dry	Dry	Dry	Dry	1471	1190	Dry
PH	PH Units	Quarterly	6.5-8	7.17	8.89	Dry	Dry	Dry	Dry	5.54	3.88	Dry
Temp	Degree C	Quarterly	-	15	10.6	Dry	Dry	Dry	Dry	17.1	17	Dry

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EPL requires quarterly or yearly monitoring of this mandatory parameter

EPL requirements not met

Additional parameter/location analysed beyond EPL requirements (non-mandatory)

Reported concentration exceeds adopted trigger value - trigger 1 where applicable

Reported concentration exceeds adopted trigger value - trigger 2 where applicable Limit of reporting exceed adopted trigger value

1 Micrograms per litre ($\mu g/L$) is 0.001 milligrams per litre (mg/L)

2 NEPM 2018, Table 1: Health-based guidance values for use in site investigations in Australia

Total iron was not sampled and analysed at EPA2

³ NEPM 2018, Table 5: Aquatic ecosystems: freshwater and marine water guideline values (exposure scenario: freshwater 95% species protection – slightly to moderately disturbed systems).

SAMPLING ON 20 NOVEMBER 2018 EPA LICENCE NUMBER 6061

http://www.environment.nsw.gov.au/prpoeopp/ WOLLONDILLY SHIRE COUNCIL 62-64 Menangle Street PICTON NSW 2571

			62-	64 Menangle S							I	
Pollutant	SAMPLING 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	DTC Dog Trap Creek below landfill drainage line BA10
Alkalinity (as calcium carbonate)	milligrams per litre	Yearly	-	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Aluminium	milligrams per litre	Yearly	0.055	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Ammonia (as nitrogen)	milligrams per litre	Quarterly	0.9	54	0.14	Dry	Dry	Dry	Dry	0.08	not sampled (blocked well)	Dry
Arsenic	milligrams per litre	Yearly	0.010 / 0.024	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Barium	milligrams per litre	Yearly	2	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Benzene	milligrams per litre	Yearly	0.001 / 0.950	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Biological Oxygen Demand (BOD)	milligrams per litre	Quarterly	-	not required	less than 5	Dry	Dry	Dry	Dry	not required	not required	Dry
Cadmium	milligrams per litre	Yearly	0.0002	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Calcium	milligrams per litre	Yearly	1000	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Chemical Oxygen Demand (COD)	milligrams per litre	Quarterly	-	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Chloride (CI)	milligrams per litre	Yearly	350	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Chlorinated Volatile Compounds (CVCs)	milligrams per litre	Yearly	-	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Chromium (hexavalent)	milligrams per litre	Yearly	0.001	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Chromium (total)	milligrams per litre	Yearly	0.0033	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Cobalt	milligrams per litre	Yearly	0.0014	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Copper	milligrams per litre	Yearly	0.0014	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Ethylbenzene	milligrams per litre	Yearly	0.08	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Fluoride	milligrams per litre	Yearly	1	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Lead	milligrams per litre	Yearly	0.0034	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Magnesium	milligrams per litre	Yearly	-	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Manganese	milligrams per litre	Yearly	0.2 / 1.9	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Mercury	milligrams per litre	Yearly	0.00006	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Nitrate (as Nitrogen)	milligrams per litre	Yearly	2.40	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Nitrite (as Nitrogen)	milligrams per litre	Yearly	0.9	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Organochlorine Pesticides (OCP)	milligrams per litre	Yearly	Limit of reporting	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Organophosphoru s Pesticides (OPP)	milligrams per litre	Yearly	Limit of reporting	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Polycyclic Aromatic Hydrocarbons (PAH)	milligrams per litre	Yearly	0.00001	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Perfluorooctane sulfonate (PFOS)	micrograms per litre ¹	Quarterly	0.13³	0.75	0.13	Dry	Dry	Dry	Dry	less than 0.01	not sampled (blocked well)	Dry
Perfluorooctanoic acid (PFOA)	micrograms per litre ¹	Quarterly	0.56² / 220³	0.97	0.52	Dry	Dry	Dry	Dry	less than 0.01	not sampled (blocked well)	Dry
Sum of Perfluorooctane sulfonate and Perfluorohexane sulfonate (PFOS+PFHxS)	micrograms per litre ¹	Quarterly	0.072	3.45	1.06	Dry	Dry	Dry	Dry	less than 0.01	not sampled (blocked well)	Dry
Potassium	milligrams per litre	Yearly	-	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Semi-volatile Organic Compounds (SVOCs)	milligrams per litre	Yearly	Limit of reporting	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Sodium	milligrams per litre	Yearly	230	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Sulphate (as SO4)	milligrams per litre	Yearly	1000	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Toluene	milligrams per litre	Yearly	0.18	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Total Disolved Solids (TDS)	milligrams per litre	Quarterly	2000	1600	930	Dry	Dry	Dry	Dry	950 (note 4)	not sampled (blocked well)	Dry
Total Iron	milligrams per litre	Yearly	0.2	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry

Total Kjeldahl Nitrogen	milligrams per litre	Not tested	-	Not tested	Not tested	Dry	Dry	Dry	Dry	Not tested	Not tested	Dry
Total Nitrogen	milligrams per litre	Not tested	0.25	Not tested	Not tested	Dry	Dry	Dry	Dry	Not tested	Not tested	Dry
Total Organic Carbon (TOC)	milligrams per litre	Quarterly	-	87	47	Dry	Dry	Dry	Dry	23	not sampled (blocked well)	Dry
Total Petroleum Hydrocarbons (TPH)	milligrams per litre	Yearly	Limit of reporting	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Total Phenolics	milligrams per litre	Yearly	0.32	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Total Phosphorus	milligrams per litre	Yearly	0.02	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Total Suspended Solids (TSS)	milligrams per litre	Quarterly	50	not required	7.9	Dry	Dry	Dry	Dry	not required	not sampled (blocked well)	Dry
Volatile Organic Compounds (VOCs)	milligrams per litre	Yearly	Limit of reporting	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Xylenes	milligrams per litre	Yearly	0.075	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
Zinc	milligrams per litre	Yearly	0.008	not required	not required	Dry	Dry	Dry	Dry	not required	not required	Dry
FIELD MEASUREMENTS												
Standing Water Level	metres below top of casing	Quarterly	-	1.13	N/A	Dry	Dry	Dry	Dry	38.7	not sampled (blocked well)	Dry
Electrical Conductivity	microsiemens per centimetre	Quarterly	30-350	3112	1468	Dry	Dry	Dry	Dry	1722	not sampled (blocked well)	Dry
PH	PH Units	Quarterly	6.5-8	7.04	8.59	Dry	Dry	Dry	Dry	5.65	not sampled (blocked well)	Dry
Temp	Degree C	Quarterly	-	18.3	23.8	Dry	Dry	Dry	Dry	17.4	not sampled (blocked well)	Dry

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EPL requires quarterly or yearly monitoring of this mandatory parameter

EPL requirements not met

Additional parameter/location analysed beyond EPL requirements (non-mandatory)

Reported concentration exceeds adopted trigger value - trigger 1 where applicable

Reported concentration exceeds adopted trigger value - trigger 2 where applicable

- Limit of reporting exceed adopted trigger value 1 Micrograms per litre ($\mu g/L$) is 0.001 milligrams per litre (mg/L)
- 2 NEPM 2018, Table 1: Health-based guidance values for use in site investigations in Australia
- 3 NEPM 2018, Table 5: Aquatic ecosystems: freshwater and marine water guideline values (exposure scenario: freshwater 95% species protection slightly to moderately disturbed systems).
- 4 Value taken from duplicate or triplicate result