

RESULTS FOR 2011 CALENDAR YEAR



POLLUTION MONITORING

As required by the NSW EPA under Section 66(6) of the POEO Act

TYPE OF MONITORING

GROUND WATER

PREMISES DETAILS

TOOHEYS PTY LTD

29 NYRANG STREET

LIDCOMBE

NSW 2141

LOT 10 DP 1008367

ENVIRONMENTAL PROTECTION LICENCE No. 1167

SAMPLE POINTS

There are 6 wells on site from which samples are taken

The wells are identified as follows

Well #01

Well #02

Well #07

Well #08

Well #09

Well #10

To view a map of the location of the sample points, Refer to Appendix 1

REQUIREMENTS

Pollutant	Monitoring Frequency (Grab Sample)	Unit of Measure	Adopted Criteria (GIL) ^{Note 1} µg/L	Rationale
Metals				
Arsenic (V)	Every 6 months	µg/L	13	ANZECC (2000) Australian Water Quality Guidelines for the protection of 95% of freshwater species. The threshold levels have been adjusted for hardness in accordance with the guidelines
Cadmium	Every 6 months	µg/L	2.5	
Chromium (VI)	Every 6 months	µg/L	10.1	
Copper	Every 6 months	µg/L	15.4	
Lead	Every 6 months	µg/L	122.7	
Mercury	Every 6 months	µg/L	0.6	
Nickel	Every 6 months	µg/L	121.2	
Zinc	Every 6 months	µg/L	88.2	
TRH/TPH				
C6-C9	Every 6 months	µg/L	10	Screening GIL (at limited of reporting) – require further investigation if exceeded
>C9	Every 6 months	µg/L	250	
BTEX				
Benzene	Every 6 months	µg/L	950	ANZECC (2000) Australian Water Quality Guidelines for the protection of 95% of freshwater species.
Toluene	Every 6 months	µg/L	180	GIL for toluene or ethyl benzene are low reliability.
Ethylbenzene	Every 6 months	µg/L	80	
Xylene	Every 6 months	µg/L	550	
PAH				
Naphthalene	Every 6 months	µg/L	16	ANZECC (2000) Australian Water Quality Guidelines for the protection of 95% of freshwater species.
Phenol	Every 6 months	µg/L	320	ANZECC (2000) Australian Water Quality Guidelines for the protection of 95% of freshwater species.
Organic Compounds				
(VOC)	Every 6 months	µg/L	10	Screening GIL (at limited of reporting)

Note 1 Groundwater Investigation Levels (GIL) have been sourced from the ANZECC Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000), trigger values for toxicants in fresh waters for the protection of 95% of species.

RESULTS

	Jan 11 - Jun 11	Comment	Jul 11 - Dec 11	Comment
Arsenic (ug/L)				
Well #01			3	The result meets the required guidelines
Well #02			<1	The result meets the required guidelines
Well #07			<1	The result meets the required guidelines
Well #08			<1	The result meets the required guidelines
Well #09			<1	The result meets the required guidelines
Well #10			<1	The result meets the required guidelines
Cadmium (ug/L)				
Well #01			2	The result meets the required guidelines
Well #02			0.2	The result meets the required guidelines
Well #07			0.3	The result meets the required guidelines
Well #08			0.6	The result meets the required guidelines
Well #09			<0.1	The result meets the required guidelines
Well #10			0.3	The result meets the required guidelines
Chromium (iii) (ug/L)				
Well #01			<1	The result meets the required guidelines
Well #02			<1	The result meets the required guidelines
Well #07			<1	The result meets the required guidelines
Well #08			<1	The result meets the required guidelines
Well #09			<1	The result meets the required guidelines
Well #10			<1	The result meets the required guidelines
Copper (ug/L)				
Well #01			<1	The result meets the required guidelines
Well #02			<1	The result meets the required guidelines
Well #07			<1	The result meets the required guidelines
Well #08			2	The result meets the required guidelines

Well #09			<1	The result meets the required guidelines
Well #10			6	The result meets the required guidelines
Lead (ug/L)				
Well #01			<1	The result meets the required guidelines
Well #02			<1	The result meets the required guidelines
Well #07			<1	The result meets the required guidelines
Well #08			<1	The result meets the required guidelines
Well #09			<1	The result meets the required guidelines
Well #10			<1	The result meets the required guidelines
Mercury (ug/L)				
Well #01			<0.1	The result meets the required guidelines
Well #02			<0.1	The result meets the required guidelines
Well #07			<0.1	The result meets the required guidelines
Well #08			<0.1	The result meets the required guidelines
Well #09			<0.1	The result meets the required guidelines
Well #10			<0.1	The result meets the required guidelines
Nickel (ug/L)				
Well #01			3	The result meets the required guidelines
Well #02			3	The result meets the required guidelines
Well #07			10	The result meets the required guidelines
Well #08			3	The result meets the required guidelines
Well #09			2	The result meets the required guidelines
Well #10			<1	The result meets the required guidelines
Zinc (ug/L)				
Well #01			20	The result meets the required guidelines
Well #02			14	The result meets the required guidelines
Well #07			19	The result meets the required guidelines
Well #08			15	The result meets the required guidelines
Well #09			20	The result meets the required guidelines
Well #10			8	The result meets the required guidelines
Total Petroleum Hydrocarbons (C6-C9) (ug/L)				
Well #01			<10	The result meets the required guidelines
Well #02			<10	The result meets the required guidelines

Well #07			<10	The result meets the required guidelines
Well #08			<10	The result meets the required guidelines
Well #09			<10	The result meets the required guidelines
Well #10			<10	The result meets the required guidelines
Total Petroleum Hydrocarbons (C10-C36) (ug/L)				
Well #01			570	The result does not meet the required guidelines
Well #02			<250	The result meets the required guidelines
Well #07			<250	The result meets the required guidelines
Well #08			<250	The result meets the required guidelines
Well #09			<250	The result meets the required guidelines
Well #10			<250	The result meets the required guidelines
Benzene (ug/L)				
Well #01			<1	The result meets the required guidelines
Well #02			<1	The result meets the required guidelines
Well #07			<1	The result meets the required guidelines
Well #08			<1	The result meets the required guidelines
Well #09			<1	The result meets the required guidelines
Well #10			<1	The result meets the required guidelines
Toluene (ug/L)				
Well #01			<1	The result meets the required guidelines
Well #02			<1	The result meets the required guidelines
Well #07			<1	The result meets the required guidelines
Well #08			<1	The result meets the required guidelines
Well #09			<1	The result meets the required guidelines
Well #10			<1	The result meets the required guidelines
Ethyl Benzene (ug/L)				
Well #01			<1	The result meets the required guidelines
Well #02			<1	The result meets the required guidelines
Well #07			<1	The result meets the required guidelines
Well #08			<1	The result meets the required guidelines
Well #09			<1	The result meets the required guidelines
Well #10			<1	The result meets the required guidelines
Total Xylene (ug/L)				

Well #01			<3	The result meets the required guidelines
Well #02			<3	The result meets the required guidelines
Well #07			<3	The result meets the required guidelines
Well #08			<3	The result meets the required guidelines
Well #09			<3	The result meets the required guidelines
Well #10			<3	The result meets the required guidelines

COMMENTS

Total Petroleum Hydrocarbon results for Well #01 was above the limit for the latest sampling period ending December 2011. The results were reported to the NSW EPA. The next round of sampling is due period ending June 2012

APPENDIX 1



