



Inverell Landfill

Sampling Point: All Monitoring Points **EPL No. 7463**
Licence Period 19 November 2019 to 18 November 2020 **Licensee: Inverell Shire Council**
<http://www.environment.nsw.gov.au/prpoeoapp/Detail.aspx?instid=7463&id=7463&option=licence&searchrange=licence&range=POEO> **144 Otho Street, Inverell**
licence&prp=no&status=Issued **Monitoring Frequency - Quarterly**

Date Sampled 1-Oct-20
Date Reported 15-Dec-20
Date Published 17-Dec-20

Sampling Notes:
 All groundwater monitoring bores (BH1-BH5) were sampled on the 1 October 2020. The leachate pond was dry at the time of sampling, no sample was collected from LP1 this monitoring round. The Laboratory and field analysis indicate that landfill leachate does not appear to be impacting groundwater at the monitoring locations and results remain consistent with historical data.

Sampling point	BH1	BH2a	BH2b	FD1 (BH2b)	BH3a	BH3b	BH4	BH5	LP1
EPA Identification Numbers	6	7	8	-	9	10	11	12	1
pH (field)	6.7	6.6	6.72	-	6.71	6.78	6.63	6.66	dry
Conductivity	1,623	3,551	3,649	-	2,352	1545	4,157	1006	-
Standing Water Level	12.87	5.97	7.6	-	7.41	13.38	13.39	10.38	-
pH (lab)	7	7	7.1	7	7.1	7.2	7	7.1	-
TDS	845	1730	1960	1980	1210	825	2420	610	-
BOD	3	3	3	4	3	2	7	6	-
TOC	3	11	8	10	3	1	11	3	-
Total Phenols	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-
Dissolved Iron	0.02	0.03	0.05	0.04	0.04	0.04	0.23	0.01	-
Dissolved Manganese	<0.01	0.45	0.02	0.02	0.22	0.27	1.7	0.03	-
Sodium	43	265	380	385	145	110	220	65	-
Calcium	120	97	68	67	120	115	185	86	-
Potassium	2.6	1.7	2.5	2.7	1.9	4.6	3.1	3.9	-
Magnesium	120	245	250	240	160	76	360	41	-
Ammonia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
Chloride	23	280	315	320	130	23	815	18	-
Fluoride	0.15	0.2	0.17	0.17	<0.1	<0.1	0.12	<0.1	-
Nitrate	73	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	90	-
Sulfate	18	10	7	6	<2	8	23	105	-
Bicarbonate	955	1680	1880	1890	1350	985	1550	390	-
Phosphate	0.12	0.15	0.18	0.16	<0.1	<0.1	<0.1	0.1	-
Nitrite	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.49	-
Total Alkalinity	785	1380	1540	1550	1110	805	1270	320	-
L/N	26.78	0.33	0.4	-	0.52	1.63	0.44	49.21	-
Total Phosphorus	<0.1	0.15	0.14	0.16	0.27	0.85	0.72	0.61	-

- Table notes:**
1. The leachate pond was dry this monitoring round and no sample was taken;
 2. All measurements are in mg/L unless stated otherwise;
 3. FD1 = blind field duplicate of BH3b;
 4. Values preceded with < are below the limit of reporting (LOR);
 5. Values in bold exceed threshold criteria;
 - 6.* Threshold concentration derived from background aquifer chemistry;

7. (A1) Threshold concentration derived ANZG (2018); and
8. (H) Hardness Modified Trigger Value adjusted as per ANZG (2018) Table 3.
9. – not analysed or measured
10. Blank cell means that there is no threshold value.