Environmental Protection Licence - Environmental Monitoring
EPA License # 5916
Reporting Year: 2016-2017
Premises: **VICTORIA ST WASTE MANAGEMENT FACILITY**, Victoria St, Young NSW

Hilltops Council
Locked Bag 5
YOUNG NSW 2594

Sampling and Reporting is required **quarterly** - samples are taken in September, December, March, and June

Sample Date			29/09/11	22/12/11	27/03/12	25/06/12	27/09/12	19/12/12	26/03/13	25/06/13	23/09/13	19/12/13	24/03/14	24/06/14	18/09/2014	15/12/2014	16/03/2015	22/06/2015	15/09/2015	8/12/2015	2/03/2016	8/06/2016	5/09/2016	13/12/2016	22/03/2017			
Data Received			7/10/11	29/12/11	2/04/12	10/07/12	4/10/12	27/12/12	8/04/13	1/07/13	2/10/13	30/12/13	30/03/14	30/06/14	25/09/2014	22/12/2014	7/04/2015	24/08/2015	28/09/2015	5/01/2016	23/03/2016	23/06/2016			24/04/2017			
Publish Date			30/10/12	30/10/12	30/10/12	30/10/12	30/10/12	22/01/2013	15/07/2013	15/07/2013	13/9/14	13/1/14						24/08/2015	22/10/2015	6/01/2016	7/04/2016	29/06/2016			26/04/2017			
					2012					2013					2014				2015									
EPA License Point # B1			**Sep-11**	**Dec-11**	**Mar-12**	**Jun-12**	**Sep-12**	**Dec-12**	**Mar-13**	**Jun-13**	**Sep-13**	**Dec-13**	**Mar-14**	**Jun-14**	**Sep-14**	**Dec-14**	**Mar-15**	**Jun-15**	**Sep-15**	**Dec-15**	**Mar-16**	**Jun-16**	**Sep-16**	**Dec-16**	**Mar-17**	**Jun-17**	**Sep-17**	**Dec-17**
Analysis Ground Water	Analyte	units																										
pH	pH	pH units	6.9	6.8	7.3	6.9	6.9	7.2	7.1	6.7	6.8	6.8	6.7	6.8	7	6.9	7.3	6.77	6.8	6.95	6.91	6.7	6.98	6.93	6.94			
Conductivity	SpC	uS/cm	1800	2400	2800	1800	2200	2000	2300	2200	2600	1800	1900	2700	3200	3100	3200	3100	3400	3350	3260	3020	3190	2440	2150			
Suspended Solids	Sus_solids	mg/L	33	80	48	33	64	47	38	2	23	97	12	20	24	3	4	<2	<2	<2	<2	3	6	2	3			
Hydroxide Alkalinity as CaCO3	Hydrox	mg/L	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Carbonate Alkalinity as CaCO3	Carb	mg/L	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Bicarbonate Alkalinity as CaCO3	Bicard	mg/L	322	384	406	322	412	429	461	399	440	379	390	485	511	524	546	537	591	586	597	599	652	514	582			
Total Alkalinity as CaCO3	Total	mg/L	322	384	406	322	412	429	461	399	440	379	390	485	511	524	546	537	591	586	597	599	652	514	582			
Ammonia (as N)	Ammonia	mg/L N	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Nitrite (as N)	Nitrite	mg/L N	0.01	0.01	0.01	0.01	0.1	0.01	0.01	0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	>0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
Nitrate (as N)	Nitrate	mg/L N	1	0.8	0.63	1	0.36	0.14	0.38	0.55	0.42	0.47	0.21	0.31	0.48	0.57	0.67	0.24	0.76	0.62	0.58	<0.05	0.45	0.35	0.23			
Nitrate + Nitrate as N (Nox)	Oxidsed_N	mg/L N	1	0.8	0.63	1	0.36	0.14	0.38	0.15	0.42	0.49	0.21	0.31	0.48	0.57	0.67	0.24	0.76	0.62	0.58	<0.05	0.45	0.35	0.23			
Depth to water	Depth_to_water	m	10.93	11.03	10.75	10.93	10.7	10.9	11.36	11.36	11.21	11.7	11.84	11.58	11.44	11.74	12	12.3	11.9	12	12.3	12.2	11.3	10.8	11.3			
Depth to sample	Sample Depth	m	10.93	11.01	10.75	10.93	10.55	10.87	11.41	12.5	11.21	11.7	12.12	12.83	11.51	11.73	12.28	12.7	12.2	12.4	12.8	12.6	12.1	11.1	11.6			
Bio chemical oxygen demand	BOD	mg/L	2	2	2	2	3	2	2	2	2	23	34	4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2			

EPA License Point # B2			**Sep-11**	**Dec-11**	**Mar-12**	**Jun-12**	**Sep-12**	**Dec-12**	**Mar-13**	**Jun-13**	**Sep-13**	**Dec-13**	**Mar-14**	**Jun-14**	**Sep-14**	**Dec-14**	**Mar-15**	**Jun-15**	**Sep-15**	**Dec-15**	**Mar-16**	**Jun-16**	**Sep-16**	**Dec-16**	**Mar-17**	**Jun-17**	**Sep-17**	**Dec-17**
Analysis Ground Water	Analyte	units																										
pH	pH	pH units	7.1	7.1	7.7	7.1	7.4	7.8	7.7	7.2	7.2	7.4	7.4	7.3	7.5	7.5	7.6	7.34	7.22	7.36	7.27	7.07	7.18	7.4	7.2			
Conductivity	SpC	uS/cm	1600	2000	1800	1600	1700	1700	1600	1600	1600	1600	1700	1700	1700	1800	1800	1910	1880	1980	2140	2240	2400	2520	2390			
Suspended Solids	Sus_solids	mg/L	63	11	17	63	19	12	29	19	200	25	38	12	16	8	14	8	4	<2	10	6	32	5	4			
Hydroxide Alkalinity as CaCO3	Hydrox	mg/L	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Carbonate Alkalinity as CaCO3	Carb	mg/L	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Bicarbonate Alkalinity as CaCO3	Bicard	mg/L	822	306	308	822	329	332	321	312	301	305	316	306	305	305	311	313	304	309	297	298	278	283	325			
Total Alkalinity as CaCO3	Total	mg/L	822	306	308	822	329	332	321	312	301	305	316	306	305	305	311	313	304	309	297	298	278	283	325			
Ammonia (asN)	Ammonia	mg/L N	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Nitrite (as N)	Nitrite	mg/L N	0.01	0.01	0.01	0.01	0.1	0.01	0.01	0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
Nitrate (as N)	Nitrate	mg/L N	0.05	0.23	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.3	0.2	0.16	0.11	0.09	<0.05			
Nitrate + Nitrate as N (Nox)	Oxidsed_N	mg/L N	0.05	0.23	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.3	0.2	0.16	0.11	0.09	<0.05			
Depth to water	Depth_to_water	m	6.37	6.19	6.3	6.37	6.2	6.2	7.11	7.18	6.99	7.33	7.6	7.5	7.17	7.42	7.82	8.3	7.83	7.96	8.18	8.07	7.5	6.95	5.73			
Depth to sample	Sample Depth	m	6.37	6.19	6.3	6.37	6.14	6.27	6.99	8.02	13.46	7.39	9.25	9.05	7.3	7.9	8.27	9.29	8.51	8.83	8.92	5.59	8.1	7.31	7.14			
Bio chemical oxygen demand	BOD	mg/L	2	2	2	2	2	2	2	2	3	2	<2	<2	<2	<2	<2	<2	<2		<2	<2	<2	<2	<2			

EPA License Point # B3			**Sep-11**	**Dec-11**	**Mar-12**	**Jun-12**	**Sep-12**	**Dec-12**	**Mar-13**	**Jun-13**	**Sep-13**	**Dec-13**	**Mar-14**	**Jun-14**	**Sep-14**	**Dec-14**	**Mar-15**	**Jun-15**	**Sep-15**	**Dec-15**	**Mar-16**	**Jun-16**	**Sep-16**	**Dec-16**	**Mar-17**	**Jun-17**	**Sep-17**	**Dec-17**
Analysis Ground Water	Analyte	units																										
pH	pH	pH units	7.4	7.3	7.9	7.4	7.1	7.8	7.8	7.2		7.4	7.3	6.9	7.4	7		6.28	6.5	6.86	6.85	6.77	6.97	7.08	7.04			
Conductivity	SpC	uS/cm	2400	2900	2600	2400	1600	2900	4400	4700		4000	4200	2500	2500	2000		2100	1750	2060	2050	1860	1950	1970	1980			
Suspended Solids	Sus_solids	mg/L	88	18	14	88	25	16	33	18		23	32	59	63	36		89	93	104	98	112	143	24	52			
Hydroxide Alkalinity as CaCO3	Hydrox	mg/L	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Carbonate Alkalinity as CaCO3	Carb	mg/L	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Bicarbonate Alkalinity as CaCO3	Bicard	mg/L	280	828	775	280	375	862	1320	1370		1370	1120	841	775	423		218	426	647	634	502	606	650	638			
Total Alkalinity as CaCO3	Total	mg/L	280	828	775	280	375	862	1320	1370		1370	1120	841	775	423	NO	218	426	647	634	502	606	650	638			
Ammonia (asN)	Ammonia	mg/L N	2.3	0.1	0.1	2.3	0.1	0.1	0.1	0.3		0.3	0.6	1.1	1.6	1.8	RECHARGE	3	2.9	3.1	3.9	3.1	2.6	2.9	2.6			
Nitrite (as N)	Nitrite	mg/L N	0.01	0.05	0.01	0.01	2.8	0.11	0.01	0.01		0.01	<0.01	<0.01	0.05	<0.01		0.02	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01			
Nitrate (as N)	Nitrate	mg/L N	0.05	1.1	0.23	0.05	3.3	0.51	0.08	0.05		0.3	<0.05	<0.05	0.51	<0.05		<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05			
Nitrate + Nitrate as N (Nox)	Oxidsed_N	mg/L N	0.05	1.1	0.24	0.05	6.1	0.62	0.08	0.05		0.31	<0.05	<0.05	0.56	<0.05		0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			
Depth to water	Depth_to_water	m	7.78	8.16	7.9	7.78	7.42	7.9	9.25	7.83	7.57	9.68	10.6	8.62	8.25	9.69	10.05	10.4	9.44	9.78	10.1	9.63	8.35	7.33	7.5			
Depth to sample	Sample Depth	m	7.78	15.09	15.24	7.78	10.44	14.26	14.77	9.8	0	12.83	14.65	14.23	15.85	10.54	11.28	12.9	9.89	10.3	12.1	11	11.4	7.65	7.54			
Bio chemical oxygen demand	BOD	mg/L	8	30	36	8	2	2	3	2		3	3	4	5	3		8	6	24	4	4	6	2	<2			

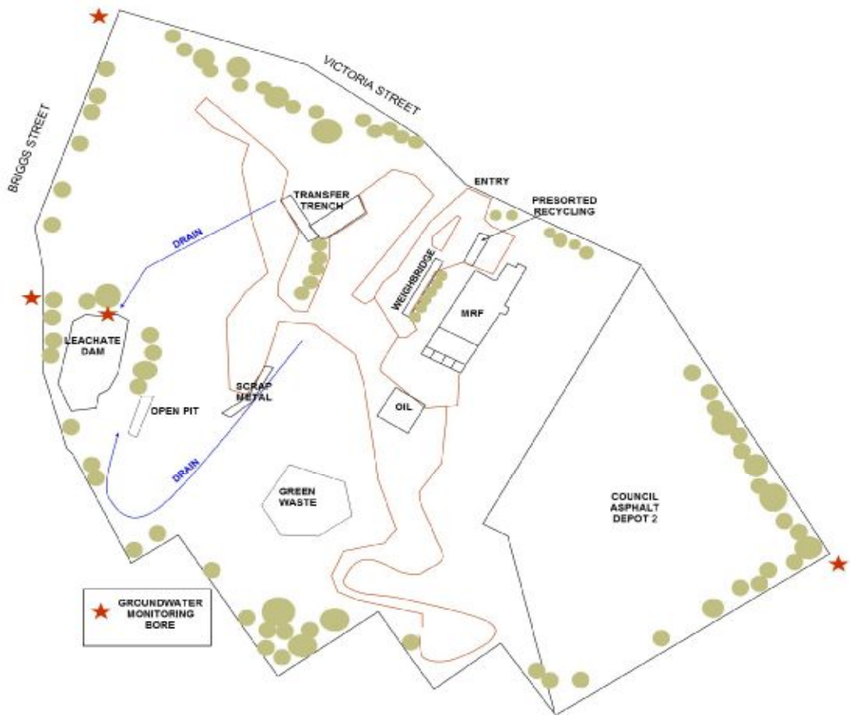
EPA License Point # LP001			**Sep-11**	**Dec-11**	**Mar-12**	**Jun-12**	**Sep-12**	**Dec-12**	**Mar-13**	**Jun-13**	**Sep-13**	**Dec-13**	**Mar-14**	**Jun-14**	**Sep-14**	**Dec-14**	**Mar-15**	**Jun-15**	**Sep-15**	**Dec-15**	**Mar-16**	**Jun-16**	**Sep-16**	**Dec-16**	**Mar-17**	**Jun-17**	**Sep-17**	**Dec-17**
Analysis Leachate Pond Liquid	Analyte	units																										
pH	pH	pH units	7.8	8.2	8.3	7.8	8.1	9	8.4	7.6	8	8.2	7.9	7.8	7.9	8.3	8.2	7.71	7.78	8.08	7.99	7.41	7.72	**	8.21			
Conductivity	SpC	uS/cm	1300	870	1400	1300	1500	1600	2200	2100	2200	2600	3900	2500	2000	2300	2500	1500	1690	2080	2030	1120	994		1280			
Suspended Solids	Sus_solids	mg/L	8	40	50	8	22	72	75	6	24	30	42	9	11	21	17	22	6	15	16	44	53		90			
Hydroxide Alkalinity as CaCO3	Hydrox	mg/L	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1			
Carbonate Alkalinity as CaCO3	Carb	mg/L	0.1	0.1	0.1	0.1	0.1	43.2	9.5	0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1			
Bicarbonate Alkalinity as CaCO3	Bicard	mg/L	204	163	301	204	222	161	169	155	169	195	198	237	200	223	250	156	224	265	238	161	202		167			
Total Alkalinity as CaCO3	Total	mg/L	204	163	301	204	222	205	178	155	169	195	198	237	200	223	250	156	224	265	238	161	202		167			
Ammonia (asN)	Ammonia	mg/L N	1.4	0.15	4.5	1.4	0.9	0.1	0.1	2.8	0.1	0.9	0.6	2.3	0.5	<0.1	<0.1	0.2	0.2	<0.1	<0.1	0.3	0.5		<0.1			
Nitrite (as N)	Nitrite	mg/L N	0.01	0.01	0.01	0.01	0.03	0.01	0.01	0.05	0.01	0.01	0.13	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.15		0.15			
Nitrate (as N)	Nitrate	mg/L N	0.05	0.01	0.04	0.05	0.03	0.05	0.05	0.14	0.05	0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.87		<0.05			
Nitrate + Nitrate as N (Nox)	Oxidsed_N	mg/L N	0.05	0.02	0.05	0.05	0.06	0.05	0.05	0.2	0.05	0.05	0.19	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.02		0.16			
Depth to water	Depth_to_water	m																										
Depth to sample	Sample Depth	m																										
Bio chemical oxygen demand	BOD	mg/L	7	16	42	7	6	13	26	3	10	12	6	2	2	8	6	7	3	9	6	5	6		24			

** Not sampled. Access issues

EPA License Point- Cut Off Drain			**Sep-11**	**Dec-11**	**Mar-12**	**Jun-12**	**Sep-12**	**Dec-12**	**Mar-13**	**Jun-13**	**Sep-13**	**Dec-13**	**Mar-14**	**Jun-14**	**Sep-14**	**Dec-14**	**Mar-15**	**Jun-15**	**Sep-15**	**Dec-15**	**Mar-16**	**Jun-16**	**Sep-16**	**Dec-16**	**Mar-17**	**Jun-17**	**Sep-17**	**Dec-17**
Analysis Surface Water	Analyte	units																										
pH	pH	pH units	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY		DRY	DRY			
Conductivity	SpC	uS/cm	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY		DRY	DRY			
Suspended Solids	Sus_solids	mg/L	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	77	DRY	DRY			
Hydroxide Alkalinity as CaCO3	Hydrox	mg/L	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY		DRY	DRY			
Carbonate Alkalinity as CaCO3	Carb	mg/L	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY		DRY	DRY			

Bicarbonate Alkalinity as CaCO3	Bicard	mg/L	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Total Alkalinity as CaCO3	Total	mg/L	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Ammonia (asN)	Ammonia	mg/L N	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Nitrite (as N)	Nitrite	mg/L N	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Nitrate (as N)	Nitrate	mg/L N	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Nitrate + Nitrate as N (Nox)	Oxidsed_N	mg/L N	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Depth to water	Depth_to_water	m	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Depth to sample	Sample Depth	m	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Bio chemical oxygen demand	BOD	mg/L	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

VICTORA ST SITE (EPL5916)



REDHILL RD SITE (EPL5915)

Environmental Protection Licence - Environmental Monitoring
EPA License # 5915
Reporting Year: 2016-2017
Premises: **REDHILL ROAD WASTE MANAGEMENT FACILITY**, Redhill Road, Young NSW

Hilltops Council
Locked Bag 5
YOUNG NSW 2594

Sampling and Reporting is required **quarterly** - samples are taken in September, December, March, and June

Sample Date			29/09/11	22/12/11	27/03/12	25/06/12	27/09/12	19/12/12	26/03/13	25/06/13	23/09/13	19/12/13	24/03/14	24/06/14	18/09/2014	15/12/2014	16/03/2015	22/06/2015	15/09/2015	8/12/2015	2/03/2016	8/06/2016	5/09/2016	13/12/2016	22/03/2017			
Data Received			7/10/11	29/12/11	2/04/12	10/07/12	4/10/12	27/12/12	8/04/13	1/07/13	2/10/13	30/12/13	30/03/14	30/06/14	25/09/2014	22/12/2014	7/04/2015	24/08/2015	28/09/2015	5/01/2016	23/03/2016	23/06/2016			24/04/2017			
Publish Date			30/10/12	30/10/12	30/10/12	30/10/12	30/10/12	22/01/2013	15/07/2013	15/07/2013	13/9/14	13/1/14						24/08/2015	22/10/2015	6/01/2016	7/04/2016	29/06/2016			26/04/2017			
					2012				2013				2014				2015											
EPA License Point # ADP001 - DAM			**Sep-11**	**Dec-11**	**Mar-12**	**Jun-12**	**Sep-12**	**Dec-12**	**Mar-13**	**Jun-13**	**Sep-13**	**Dec-13**	**Mar-14**	**Jun-14**	**Sep-14**	**Dec-14**	**Mar-15**	**Jun-15**	**Sep-15**	**Dec-15**	**Mar-16**	**Jun-16**	**Sep-16**	**Dec-16**	**Mar-17**	**Jun-17**	**Sep-17**	**Dec-17**
Analysis Ground Water	Analyte	units																										
pH	pH	pH units	8.1	8	8.2	8.1	8.1	7.9	8.4	8.1	7.9	8.3	8.9	8.2	8.2	8.6	8.8	9.4	8.04	8.4	8.66	8.22	7.68	**	8.44			
Conductivity	SpC	uS/cm	3200	4000	3500	3200	2800	3100	3900	3100	2700	3300	5600	3000	2500	3200	4900	2450	2020	2320	2880	2010	1520		2840			
Suspended Solids	Sus_solids	mg/L	21	12	18	21	110	7	8	2	12	6	92	8	6	6	6	81	8	17	24	8	77		67			
Hydroxide Alkalinity as CaCO3	Hydrox	mg/L	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1			
Carbonate Alkalinity as CaCO3	Carb	mg/L	0.1	0.1	0.1	0.1	0.1	0.1	25.6	0.1	0.1	0.1	117	<0.1	<0.1	63.4	101	133	<0.1	27.6	68.6	13.6	<0.1		29			
Bicarbonate Alkalinity as CaCO3	Bicard	mg/L	603	572	649	603	568	684	649	516	466	606	541	512	503	619	753	215	480	615	588	404	447		579			
Total Alkalinity as CaCO3	Total	mg/L	603	572	649	603	568	684	675	216	466	606	658	512	503	682	854	348	480	643	656	418	447		608			
Ammonia (as N)	Ammonia	mg/L N	0.3	0.3	4.9	0.3	0.1	0.2	0.2	2	0.2	0.2	<0.1	2.9	0.3	<0.1	<0.1	<0.1	3.4	<0.1	<0.1	0.4	4.4		<0.1			
Nitrite (as N)	Nitrite	mg/L N	0.03	0.03	0.06	0.03	0.01	0.01	0.01	0.08	0.01	0.01	<0.01	0.02	0.02	<0.01	<0.01	0.02	0.1	<0.01	<0.01	0.04	0.47		0.01			
Nitrate (as N)	Nitrate	mg/L N	0.11	0.02	0.03	0.11	0.05	0.05	0.05	0.07	0.05	0.05	<0.05	<0.05	0.09	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	0.14	0.64		<0.05			
Nitrate + Nitrate as N (Nox)	Oxidsed_N	mg/L N	0.14	0.05	0.09	0.14	0.05	0.05	0.05	0.15	0.05	0.05	<0.05	<0.05	0.11	<0.05	<0.05	0.05	0.18	<0.05	<0.05	0.19	1.11		0.06			
Depth to water	Depth_to_water	m																										
Depth to sample	Sample Depth	m																										
Bio chemical oxygen demand	BOD	mg/L	6	4	3	6	15	2	2	2	3	3	24	<2	<2	2	11	20	5	10	7	8	14		27			

** Not sampled. Access issues

EPA License Point # ADP002			**Sep-11**	**Dec-11**	**Mar-12**	**Jun-12**	**Sep-12**	**Dec-12**	**Mar-13**	**Jun-13**	**Sep-13**	**Dec-13**	**Mar-14**	**Jun-14**	**Sep-14**	**Dec-14**	**Mar-15**	**Jun-15**	**Sep-15**	**Dec-15**	**Mar-16**	**Jun-16**	**Sep-16**	**Dec-16**	**Mar-17**	**Jun-17**	**Sep-17**	**Dec-17**
Analysis Ground Water	Analyte	units																										
pH	pH	pH units	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	7.08	6.54	6.59			
Conductivity	SpC	uS/cm	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	359	549	867			
Suspended Solids	Sus_solids	mg/L	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	159	4390	180			
Hydroxide Alkalinity as CaCO3	Hydrox	mg/L	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	<0.1	<0.1	<0.1			
Carbonate Alkalinity as CaCO3	Carb	mg/L	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	<0.1	<0.1	<0.1			
Bicarbonate Alkalinity as CaCO3	Bicard	mg/L	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	85.4	103	132			
Total Alkalinity as CaCO3	Total	mg/L	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	85	103	132			
Ammonia (as N)	Ammonia	mg/L N	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	<0.1	<0.1	<0.1			
Nitrite (as N)	Nitrite	mg/L N	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	0.12	0.03	<0.01			
Nitrate (as N)	Nitrate	mg/L N	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	19.5	2.41	0.07			
Nitrate + Nitrate as N (Nox)	Oxidsed_N	mg/L N	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	19.6	2.43	0.07			
Depth to water	Depth_to_water	m	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	0.87	1.66				
Depth to sample	Sample Depth	m	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	1.18	1.68				
Bio chemical oxygen demand	BOD	mg/L	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	<2	<2	<2			

EPA License Point # GWM001			**Sep-11**	**Dec-11**	**Mar-12**	**Jun-12**	**Sep-12**	**Dec-12**	**Mar-13**	**Jun-13**	**Sep-13**	**Dec-13**	**Mar-14**	**Jun-14**	**Sep-14**	**Dec-14**	**Mar-15**	**Jun-15**	**Sep-15**	**Dec-15**	**Mar-16**	**Jun-16**	**Sep-16**	**Dec-16**	**Mar-17**	**Jun-17**	**Sep-17**	**Dec-17**
Analysis Ground Water	Analyte	units																										
pH	pH	pH units	7	6.8	7.4	7	7.3	6.9	7.2	6.8	7	DRY	DRY	DRY	7.3	DRY	DRY	6.93	3.75	DRY	DRY	DRY	DRY	DRY	DRY			
Conductivity	SpC	uS/cm	1800	1800	1200	1800	1700	1900	1600	1300	2200	DRY	DRY	DRY	970	DRY	DRY	897	591	DRY	DRY	DRY	DRY	DRY	DRY			
Suspended Solids	Sus_solids	mg/L	2000	1800	2700	2000	3300	1700	8800	4500	410	DRY	DRY	DRY	460	DRY	DRY	20	126	DRY	DRY	DRY	DRY	DRY	DRY			
Hydroxide Alkalinity as CaCO3	Hydrox	mg/L	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	DRY	DRY	DRY	<0.1	DRY	DRY	<0.1	<0.1	DRY	DRY	DRY	DRY	DRY	DRY			
Carbonate Alkalinity as CaCO3	Carb	mg/L	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	DRY	DRY	DRY	<0.1	DRY	DRY	<0.1	<0.1	DRY	DRY	DRY	DRY	DRY	DRY			
Bicarbonate Alkalinity as CaCO3	Bicard	mg/L	211	214	178	211	242	311	274	177	161	DRY	DRY	DRY	286	DRY	DRY	206	245	DRY	DRY	DRY	DRY	DRY	DRY			
Total Alkalinity as CaCO3	Total	mg/L	211	214	178	211	242	311	274	177	161	DRY	DRY	DRY	286	DRY	DRY	206	245	DRY	DRY	DRY	DRY	DRY	DRY			
Ammonia (asN)	Ammonia	mg/L N	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	DRY	DRY	DRY	<0.1	DRY	DRY	<0.1	<0.1	DRY	DRY	DRY	DRY	DRY	DRY			
Nitrite (as N)	Nitrite	mg/L N	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	DRY	DRY	DRY	<0.01	DRY	DRY	<0.01	<0.01	DRY	DRY	DRY	DRY	DRY	DRY			
Nitrate (as N)	Nitrate	mg/L N	0.05	0.04	0.09	0.05	0.05	0.05	0.05	2.5	3.6	DRY	DRY	DRY	<0.05	DRY	DRY	1.1	0.06	DRY	DRY	DRY	DRY	DRY	DRY			
Nitrate + Nitrate as N (Nox)	Oxidsed_N	mg/L N	0.05	0.06	0.1	0.05	0.05	0.05	0.05	2.5	3.6	DRY	DRY	DRY	<0.05	DRY	DRY	1.1	0.06	DRY	DRY	DRY	DRY	DRY	DRY			
Depth to water	Depth_to_water	m	0.6	0.78	0.64	0.6	0.76	1.64	3	2.88	1.5	DRY	DRY	DRY	2.3	DRY	DRY	3	2.61	DRY	DRY	DRY	DRY	DRY	DRY			
Depth to sample	Sample Depth	m	0.6	0.78	0.64	0.6	0.8	1.96	3.13	2.74	1.5	DRY	DRY	DRY	2.38	DRY	DRY	3.55	2.8	DRY	DRY	DRY	DRY	DRY	DRY			
Bio chemical oxygen demand	BOD	mg/L	2	2	2	2	2	2	2	11	2	DRY	DRY	DRY	<2	DRY	DRY	<2	<2	DRY	DRY	DRY	DRY	DRY	DRY			