

EPA License Point- Cut Off Drain

Analysis Surface Water	Analyte	units
pH	pH	pH units
Conductivity	SpC	uS/cm
Suspended Solids	Sus_solids	mg/L
Hydroxide Alkalinity as CaCO3	Hydrox	mg/L
Carbonate Alkalinity as CaCO3	Carb	mg/L
Bicarbonate Alkalinity as CaCO3	Bicard	mg/L
Total Alkalinity as CaCO3	Total	mg/L
Ammonia (asN)	Ammonia	mg/L N
Nitrite (as N)	Nitrite	mg/L N
Nitrate (as N)	Nitrate	mg/L N
Nitrate + Nitrate as N (Nox)	Oxidsed_N	mg/L N
Depth to water	Depth_to_water	m
Depth to sample	Sample Depth	m
Bio chemical oxygen demand	BOD	mg/L

Mar-16	Jun-16	Sep-16	Dec-16	Mar-17	Jun-17	Sep-17	Dec-17	Mar-18	Jun-18	Sep-18	Dec-18	Mar-19	Jun-19	Sep-19	Dec-19
DRY	DRY		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
DRY	DRY		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
DRY	DRY	77	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
DRY	DRY		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
DRY	DRY		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
DRY	DRY		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
DRY	DRY		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
DRY	DRY		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
DRY	DRY		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
DRY	DRY		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
DRY	DRY		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
DRY	DRY		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
DRY	DRY		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
DRY	DRY		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
DRY	DRY		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
DRY	DRY		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
DRY	DRY		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

VICTORIA ST SITE (EPL5916)



Environmental Protection Licence - Environmental Monitoring

EPA License # 5915

Reporting Year: 2018-2019

REDHILL ROAD WASTE MANAGEMENT FACILITY, Redhill Road, YOUNG NSW 2594

Hilltops Council

Locked Bag 5



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

Sample Date	2/03/2016	8/06/2016	5/09/2016	13/12/2016	22/03/2017	8/06/2017	6/09/2017	7/12/2017	6/03/2018	8/06/2018	6/09/2018	21/12/2018	21/03/2019	6/06/2019	6/9/2019	3/1/2020
Data Received	23/03/2016	23/06/2016			24/04/2017	19/06/2017	25/09/2017	15/12/2017	20/03/2018	20/06/2018	14/09/2018	15/01/2019	12/04/2019	24/06/2019	25/9/2019	14/1/2020
Publish Date	7/04/2016	29/06/2016			26/04/2017	23/06/2017	28/09/2017	21/12/2017	23/03/2018	21/06/2018	21/09/2018	16/01/2019	17/07/2019	26/06/2019		24/1/2020

EPA License Point # ADP001 - DAM

Analyte	units	2016				2017				2018				2019			
		Mar-16	Jun-16	Sep-16	Dec-16	Mar-17	Jun-17	Sep-17	Dec-17	Mar-18	Jun-18	Sep-18	Dec-18	Mar-19	Jun-19	Sep-19	Dec-19
Analysis Ground Water		8.66	8.22	7.68	**	8.44	8.28	8.12	8.19	8.47	8.3	8.33	9.08	8.61	8.46	9.00	DRY
pH	pH units	2880	2010	1520		2840	2800	2760	2270	2480	2850	2640	3030	2120	1610	1540	DRY
Conductivity	SpC uS/cm	24	8	77		67	47	20	6	31	11	13	20	10	3	7	DRY
Suspended Solids	Sus_solids 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	DRY
Hydroxide Alkalinity as CaCO3	Hydrox mg/L	68.6	13.6	<0.1		29	<0.1	<0.1	<0.1	42.8	5.5	18.3	284	56.9	28.4	68.2	DRY
Carbonate Alkalinity as CaCO3	Carb mg/L	588	404	447		579	698	768	565	672	807	722	490	395	290	220	DRY
Bicarbonate Alkalinity as CaCO3	Bicard mg/L	656	418	447		608	698	768	565	715	812	740	774	452	318	288	DRY
Total Alkalinity as CaCO3	Total mg/L	<0.1	0.4	4.4		<0.1	<0.1	0.9	0.6	<0.1	1.2	0.5	<0.1	<0.1	<0.1	<0.1	DRY
Ammonia (as N)	Ammonia mg/L N	<0.01	0.04	0.47		0.01	<0.01	0.03	0.04	<0.1	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	DRY
Nitrite (as N)	Nitrite mg/L N	<0.05	0.14	0.64		<0.05	<0.05	0.05	<0.05	<0.05	<0.05	0.19	0.12	0.2	<0.05	<0.05	DRY
Nitrate (as N)	Nitrate mg/L N	<0.05	0.19	1.11		0.06	<0.05	0.08	0.06	<0.05	<0.05	0.24	0.12	0.2	<0.05	<0.05	DRY
Nitrate + Nitrate as N (Nox)	Oxidsed_N mg/L N																
Depth to water	Depth_to_water m																
Depth to sample	Sample Depth m	7	8	14		27	8	4	2	6	<2	2	5	<2	<2	4	
Bio chemical oxygen demand	BOD mg/L																

** Not sampled. Access issues

EPA License Point # ADP002

Analyte	units	2016				2017				2018				2019			
		Mar-16	Jun-16	Sep-16	Dec-16	Mar-17	Jun-17	Sep-17	Dec-17	Mar-18	Jun-18	Sep-18	Dec-18	Mar-19	Jun-19	Sep-19	Dec-19
Analysis Ground Water		DRY	DRY	7.08	6.54	6.59	6.48			DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
pH	pH units	DRY	DRY	359	549	867	871			DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Conductivity	SpC uS/cm	DRY	DRY	159	4390	180	2550			DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Suspended Solids	Sus_solids mg/L	DRY	DRY	<0.1	<0.1	<0.1	<0.1			DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Hydroxide Alkalinity as CaCO3	Hydrox mg/L	DRY	DRY	<0.1	<0.1	<0.1	<0.1			DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Carbonate Alkalinity as CaCO3	Carb mg/L	DRY	DRY	85.4	103	132	136			DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Bicarbonate Alkalinity as CaCO3	Bicard mg/L	DRY	DRY	85	103	132	136			DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Total Alkalinity as CaCO3	Total mg/L	DRY	DRY	<0.1	<0.1	<0.1	0.1			DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Ammonia (as N)	Ammonia mg/L N	DRY	DRY	0.12	0.03	<0.01	<0.01			DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Nitrite (as N)	Nitrite mg/L N	DRY	DRY	19.5	2.41	0.07	0.99			DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Nitrate (as N)	Nitrate mg/L N	DRY	DRY	19.6	2.43	0.07	0.99			DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Nitrate + Nitrate as N (Nox)	Oxidsed_N mg/L N	DRY	DRY	0.87	1.66		1.96			DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Depth to water	Depth_to_water m	DRY	DRY	1.18	1.68		1.96			DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Depth to sample	Sample Depth m	DRY	DRY	<2	<2	<2	<2			DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Bio chemical oxygen demand	BOD mg/L																

EPA License Point # GWM001

Analyte	units	2016				2017				2018				2019			
		Mar-16	Jun-16	Sep-16	Dec-16	Mar-17	Jun-17	Sep-17	Dec-17	Mar-18	Jun-18	Sep-18	Dec-18	Mar-19	Jun-19	Sep-19	Dec-19
Analysis Ground Water		DRY	DRY	7.08	6.54	6.59	6.48	6.97	6.94	6.75	**	DRY	DRY	DRY	DRY	DRY	DRY
pH	pH units	DRY	DRY	359	549	867	871	1820	2010	1760		DRY	DRY	DRY	DRY	DRY	DRY
Conductivity	SpC uS/cm	DRY	DRY	159	4390	180	2550	450	243	282		DRY	DRY	DRY	DRY	DRY	DRY
Suspended Solids	Sus_solids mg/L	DRY	DRY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		DRY	DRY	DRY	DRY	DRY	DRY
Hydroxide Alkalinity as CaCO3	Hydrox mg/L	DRY	DRY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		DRY	DRY	DRY	DRY	DRY	DRY
Carbonate Alkalinity as CaCO3	Carb mg/L	DRY	DRY	85.4	103	132	136	86.9	100	131		DRY	DRY	DRY	DRY	DRY	DRY
Bicarbonate Alkalinity as CaCO3	Bicard mg/L	DRY	DRY	85	103	132	136	87	100	131		DRY	DRY	DRY	DRY	DRY	DRY
Total Alkalinity as CaCO3	Total mg/L	DRY	DRY	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1		DRY	DRY	DRY	DRY	DRY	DRY
Ammonia (as N)	Ammonia mg/L N	DRY	DRY	0.12	0.03	<0.01	<0.01	<0.1	<0.01	<0.1		DRY	DRY	DRY	DRY	DRY	DRY
Nitrite (as N)	Nitrite mg/L N	DRY	DRY	19.5	2.41	0.07	0.99	0.09	0.14	0.39		DRY	DRY	DRY	DRY	DRY	DRY
Nitrate (as N)	Nitrate mg/L N	DRY	DRY	19.6	2.43	0.07	0.99	0.09	0.14	0.39		DRY	DRY	DRY	DRY	DRY	DRY
Nitrate + Nitrate as N (Nox)	Oxidsed_N mg/L N	DRY	DRY	0.87	1.66		1.96	1.75	1.66	3		DRY	DRY	DRY	DRY	DRY	DRY
Depth to water	Depth_to_water m	DRY	DRY	1.18	1.68		1.96	1.86	1.7	3.16		DRY	DRY	DRY	DRY	DRY	DRY
Depth to sample	Sample Depth m	DRY	DRY	<2	<2	<2	<2	<2	<2	<2		DRY	DRY	DRY	DRY	DRY	DRY
Bio chemical oxygen demand	BOD mg/L																

** not enough water to sample