

Historical Soil Quality Results

Narromine Effluent Reuse Scheme

Inorganics			Exchangeable cations			Nutrients	
pH (Lab)	Electrical Conductivity (Saturated Paste)	Sodium Adsorption Ratio	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Sodium	Nitrogen (Total)	Phosphorus (Total)
pH units	µS/cm	-	meq/100g	meq/100g	meq/100g	mg/kg	mg/kg
Detection limit			0.1	0.1	0.1	20	2

EPA ID Point	Location Code	Date / Time	Time	Results		Depth	Name of Sampler	pH	EC	SAR	Ca	Mg	Na	N	P
				Received	Published										
EPA ID Point 7	SS1	19/06/2018	10:28:00	25/06/2018	1/07/2018	0 - 0.1	Bill Foster	6.1	-	-	3.6	1.1	0.3	890	186
		21/05/2019	8:05:00	30/05/2019	7/06/2019	0 - 0.15	Bill Foster	5.9	218	1.16	3.4	1.4	0.1	720	184
		12/05/2020	15:00:00	25/05/2020	1/06/2020	0 - 0.1	Grace Rogers	6.6	256	2.07	3.5	1	0.3	670	213
	SS2	19/06/2018	15:00:00	25/06/2018	1/07/2018	0 - 0.1	Bill Foster	6.8	-	-	6.3	2.2	0.9	940	226
		21/05/2019	7:50:00	30/05/2019	7/06/2019	0 - 0.15	Bill Foster	6.4	584	3.87	5.3	2.1	<0.1	1,200	267
		12/05/2020	15:00:00	25/05/2020	1/06/2020	0 - 0.1	Grace Rogers	6.8	691	4.6	5	2.4	1	740	230

Historical Effluent Quality Results

Narromine Effluent Reuse Scheme

Detection Limit	Inorganics				Nutrients				Organic Indicators	TPH
	pH (Lab)	Electrical conductivity (lab)	Total Suspended Solids	Sodium Adsorption Ratio (filtered)	Nitrogen (Total Oxidised) (as N)	Nitrogen (Total)	Kjeldahl Nitrogen Total	Phosphorus (Total)	BOD	Oil & Grease
	pH Units	µS/cm	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	0.01	1	1	0.01	0.01	0.1	0.1	0.01	2	5

Location Code	Sample Date and Time	Samples Received	Results Published	Name of Sampler	pH (Lab)	Electrical conductivity (lab)	Total Suspended Solids	Sodium Adsorption Ratio (filtered)	Nitrogen (Total Oxidised) (as N)	Nitrogen (Total)	Kjeldahl Nitrogen Total	Phosphorus (Total)	BOD	Oil & Grease
EPA Point 5	22/01/2016 15:00	22/01/2016	29/01/2016	Ben Morrison	9.39	1,300	82	6.83	0.03	9.6	9.6	1.96	<2	<5
EPA Point 5	29/02/2016 15:00	1/03/2016	7/03/2016	Ben Morrison	9.7	1,410	62	7.39	0.05	9.2	9.1	1.46	7	30
EPA Point 5	18/04/2016 12:30	21/04/2016	28/04/2016	James Walsh	8.57	1,420	64	7.41	0.52	13.2	12.7	4.08	40	<5
EPA Point 5	24/05/2016 10:45	26/05/2016	2/06/2020	Anthony Everett	8.52	1,300	44	5.63	1.43	8.9	7.5	4.55	30	<5
EPA Point 5	26/07/2016 15:00	27/07/2016	3/08/2016	Paul McDougall	8.01	1,020	81	4.66	3.35	13	9.6	4.87	27	6
EPA Point 5	30/08/2016 12:00	31/08/2016	5/09/2016	Anthony Everett	7.88	1,120	26	4.72	0.3	12.9	12.6	5.87	6	<5
EPA Point 5	6/10/2016 9:00	7/10/2016	13/10/2016	Ben Morrison	7.83	1,020	36	4.53	9.02	16.7	7.7	4.89	27	12
EPA Point 5	21/11/2016 9:45	24/11/2016	1/12/2016	Ben Morrison	7.79	1,070	118	5.48	0.06	14.5	14.4	5.78	9	<5
EPA Point 5	15/12/2016 15:00	16/12/2016	29/12/2016	Paul McDougall	8.69	1,220	*	5.83	0.14	1.3	1.2	0.05	25	<5
EPA Point 5	2/02/2017 15:00	3/02/2017	10/02/2017	Ben Morrison	8.68	1,440	145	5.7	<0.01	17.2	17.2	2.74	29	<5
EPA Point 5	13/03/2017 15:00	14/03/2017	21/03/2017	Ben Morrison	8.25	1,660	127	9	0.05	12.6	12.6	3.4	84	<5
EPA Point 5	27/04/2017 16:36	28/04/2017	5/05/2017	Ben Morrison	8.17	1,490	68	6.01	1.32	10.1	8.8	4.43	29	<5
EPA Point 5	8/06/2017 10:50	9/06/2017	4/07/2017	Paul McDougall	8.92	1,360	75	5.43	1.39	9.3	7.9	3.63	26	<5
EPA Point 5	27/07/2017 15:00	28/07/2017	4/08/2017	James Walsh	7.69	1,300	82	5.3	4.37	17	12.6	5.16	47	<5
EPA Point 5	8/11/2017 12:00	9/11/2017	16/11/2017	Geoff Metcalfe	7.94	1,310	30	5.96	1.13	9.5	8.4	4.19	7	<5
EPA Point 5	20/12/2017 15:00	21/12/2017	4/01/2018	Paul McDougall	8.87	1,310	124	6.04	<0.01	10.4	10.4	5.08	43	<5
EPA Point 5	12/03/2018 12:00	13/03/2018	20/03/2018	Duane Donnelly	9.16	1,680	100	6.81	0.02	8.5	8.5	2.57	20	<5
EPA Point 5	11/04/2018 14:17	12/04/2018	19/04/2018	Geoff Metcalfe	8.68	1,850	93	7.4	0.06	13.1	13	3.55	44	<5
EPA Point 5	24/04/2018 15:00	24/04/2018	2/05/2018	Duane Donnelly	8.65	1,860	116	6.56	0.86	18.7	17.8	5.53	50	5
EPA Point 5	4/06/2018 12:00	5/06/2018	12/06/2018	Anthony Everett	8.64	1,720	102	6.45	1.83	11.5	9.7	4.79	62	9
EPA Point 5	16/07/2018 11:35	17/07/2018	23/07/2018	Anthony Everett	8.83	1,480	76	5.34	3.18	16.4	13.2	5.8	58	<5
EPA Point 5	27/08/2018 11:00	28/08/2018	3/09/2018	Anthony Everett	8.96	1,340	135	5.11	5.2	23.6	18.4	4.4	42	<5
EPA Point 5	8/10/2018 11:00	9/10/2018	15/10/2018	Anthony Everett	8.63	1,430	82	4.99	2.64	14.5	11.9	6.5	32	<5
EPA Point 5	19/11/2018 15:00	20/11/2018	27/11/2018	Anthony Everett	8.68	1,480	105	5.53	0.6	7.8	7.2	4.34	45	<5
EPA Point 5	11/02/2019 15:00	12/02/2019	19/02/2019	Anthony Everett	8.42	1,680	90	5.72	<0.01	10.4	10.4	4.36	59	<5
EPA Point 5	21/05/2019 6:40	22/05/2019	30/05/2019	Bill Foster	8.01	1,630	84	5.5	3.31	13.1	9.8	5.84	46	<5
EPA Point 5	21/08/2019 17:30	23/08/2019	29/08/2019	Bill Foster	7.72	1,510	57	5.76	2.59	17.8	15.2	5.64	209	<5
EPA Point 5	3/12/2019 15:15	5/12/2019	13/12/2019	Bill Foster	8.08	1,610	69	6.73	0.12	6.8	6.7	3.15	45	<5
EPA Point 5	25/02/2020 9:15	28/02/2020	6/03/2020	Bill Foster	7.01	2,020	120	7.25	0.74	11.7	11	3.34	43	<5
EPA Point 5	12/05/2020 0:00	14/05/2020	25/05/2020	Grace Rogers	8.54	1,130	88	4.87	0.77	10.9	10.1	4.71	20	5
EPA Point 5	9/06/2020 0:00	10/06/2020	17/06/2020	Kyle Whalan	8.42	1,170	88	3.7	0.37	11.1	10.7	6.17	26	<5
EPA Point 5	18/08/2020 0:00	21/08/2020	28/08/2020	Grace Rogers	7.92	930	72	4.29	5.33	14.4	9.1	4.32	40	5
EPA Point 5	10/11/2020 10:10	20/11/2020	27/11/2020	Grace Rogers	8.4	1,190	114	4.69	0.11	15.6	15.5	5.88	35	13

* A Total Suspended Solids sample (TSS) was not obtained at EPA point 5 on 15/12/2016 due to the parameter not being specified to the laboratory on the chain of custody form.

At the time of sampling, TSS was required to be monitored six times per reporting period as per EPL 11715 (Licence version date 16/06/2014), a total of eight TSS samples were collected during the 2015-2016 reporting period. This was displayed in the 2016 Annual Return and was not a non-compliance.