

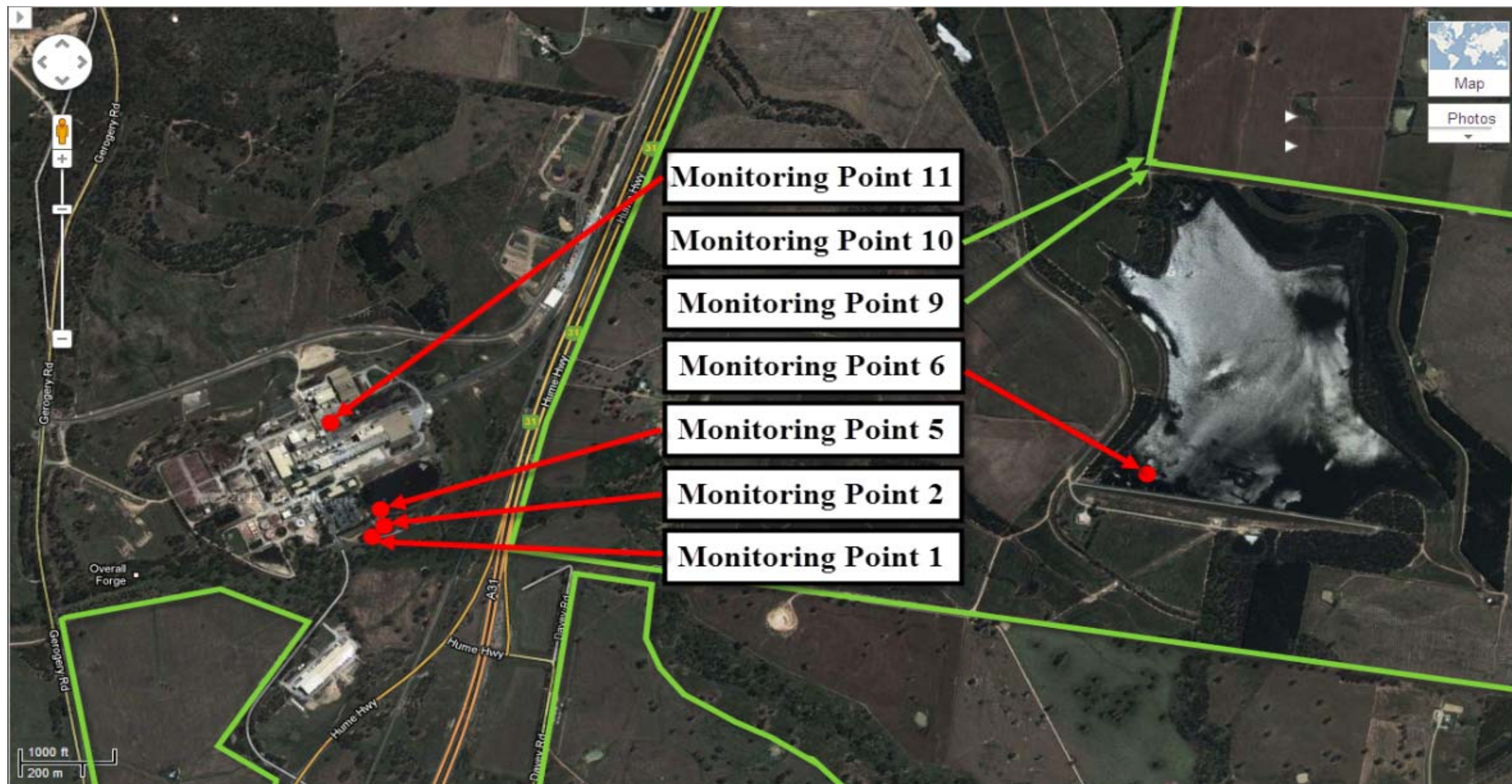
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Result data last updated

15 February 2013

**Map of Norske Skog Albury Paper Mills Environmental Protection Licence compliance monitoring sites**



Courtesy of Google Maps

Monitoring point 1

Discharge to waters, Effluent quality and volume monitoring

		Licence requirements			July						August						September					
Pollutant	Units of measure	Monitoring frequency required when discharging	0 percentile limit	100 percentile limit	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)
AOX	Milligrams per Litre	Quarterly	-	-	1	-	0.066	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-
Biochemical Oxygen Demand	Milligrams per Litre	Daily	-	20	31	< 2	9.5	10	14	no	18	6	9.1	9	15	no	30	3	6.0	6	13	no
Cadmium	Milligrams per Litre	Monthly	-	0.006	1	-	< 0.002	-	-	no	1	-	< 0.002	-	-	no	1	-	< 0.002	-	-	no
Chemical Oxygen Demand	Milligrams per Litre	Daily	-	-	31	230	279	280	334	-	18	160	246	240	360	-	30	127	224	230	260	-
Chloride	Milligrams per Litre	Monthly	-	-	1	-	44	-	-	-	1	-	45	-	-	-	0	-	-	-	-	-
Colour	Hazen	Daily	-	-	31	350	515	500	600	-	18	400	500	500	600	-	30	350	443	450	500	-
Copper	Milligrams per Litre	Monthly	-	0.05	1	-	< 0.01	-	-	no	1	-	< 0.01	-	-	no	1	-	< 0.01	-	-	no
Iron	Milligrams per Litre	Weekly	-	3.0	4	< 0.01	0.01	0.01	0.02	no	3	0.01	0.04	0.02	0.08	no	4	0.01	0.06	0.05	0.11	no
Manganese	Milligrams per Litre	Monthly	-	2.5	1	-	0.77	-	-	no	1	-	0.77	-	-	no	1	-	1.10	-	-	no
Nitrogen (Ammonia)	Milligrams per Litre	Daily	-	3.0	31	< 0.2	0.11	< 0.2	0.4	no	17	0.5	1.04	0.9	1.6	no	30	< 0.2	0.27	< 0.2	1.7	no
Nitrogen (Total)	Milligrams per Litre	Daily	-	15	31	0.6	5.05	4.2	18.3	yes	17	3.0	5.04	5.5	7.6	no	30	0.6	5.11	4.6	14.8	no
Oil and Grease	Milligrams per Litre	Weekly	-	10	4	< 1	1.8	2.0	3.0	no	3	< 1	3.3	< 1	10.0	no	4	< 1	0.5	< 1	2.0	no
Phosphorus (Total)	Milligrams per Litre	Daily	-	0.5	31	0.06	0.13	0.12	0.18	no	17	0.04	0.21	0.19	0.45	no	30	0.03	0.23	0.23	0.37	no
Sodium	Milligrams per Litre	Monthly	-	-	1	-	260	-	-	-	1	-	260	-	-	-	1	-	320	-	-	-
Temperature	degrees Celsius	Daily	-	-	31	16.1	17.38	17.3	18.5	-	17	18.7	20.33	20.1	23.8	-	30	18.8	20.61	20.5	22.7	-
Total Resin Acids	Milligrams per Litre	Monthly	-	-	1	-	< 0.0001	-	-	-	1	-	0.00	-	-	-	1	-	0.01	-	-	-
Total Dissolved Solids	Milligrams per Litre	Daily	-	2000	31	1310	1381	1370	1540	no	17	1340	1435	1430	1530	no	30	1370	1479	1490	1530	no
Total Organic Carbon	Milligrams per Litre	Quarterly	-	-	1	-	92	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-
Total Suspended Solids	Milligrams per Litre	Weekly	-	20	4	< 2	7.5	6.0	18.0	no	3	< 2	0.7	< 2	2.0	no	4	< 2	5.5	5.0	12.0	no
Zinc	Milligrams per Litre	Weekly	-	0.4	4	0.00	0.01	0.01	0.01	no	3	0.01	0.01	0.01	0.02	no	4	0.01	0.03	0.03	0.05	no
pH	pH	Daily	6.5	8.5	31	7.4	7.79	7.8	8.0	no	17	7.7	7.93	7.9	8.1	no	30	7.1	7.92	7.9	8.4	no
Ethylene Diamine Tetraacetic Acid	Milligrams per Litre	Monthly	-	Combined	1	-	< 0.5	-	-	no	1	-	< 0.5	-	-	no	1	-	4.700	-	-	no
Diethylene Triamine Pentaacetic Acid	Milligrams per Litre	Monthly	-	value of 100	1	-	< 1	-	-	no	1	-	< 1	-	-	no	1	-	< 1	-	-	no
		Monthly Samples Collected			6 July 2011						3 August 2011						7 September 2011					
		Monthly Results Obtained																				
		Monthly Results Published																				
		Quarterly Samples Collected			6 July 2011																	
		Quarterly Results Obtained																				
		Quarterly Results Published																				
		Licence requirements			October						November						December					
Pollutant	Units of measure	Monitoring frequency required when discharging	0 percentile limit	100 percentile limit	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)
AOX	Milligrams per Litre	Quarterly	-	-	1	-	0.09	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-
Biochemical Oxygen Demand	Milligrams per Litre	Daily	-	20	31	< 2	4.9	4	12	no	30	< 2	4.8	5	14	no	14	4	20.8	21	32	yes
Cadmium	Milligrams per Litre	Monthly	-	0.006	1	-	< 0.002	-	-	no	1	-	< 0.002	-	-	no	1	-	< 0.002	-	-	no
Chemical Oxygen Demand	Milligrams per Litre	Daily	-	-	31	136	203	210	240	-	30	115	182	190	210	-	14	220	277	265	330	-
Chloride	Milligrams per Litre	Monthly	-	-	1	-	47	-	-	-	1	-	44	-	-	-	1	-	42	-	-	-
Colour	Hazen	Daily	-	-	31	320	396	400	500	-	30	360	394	400	500	-	14	320	359	360	500	-
Copper	Milligrams per Litre	Monthly	-	0.05	1	-	< 0.01	-	-	no	1	-	< 0.01	-	-	no	1	-	< 0.01	-	-	no
Iron	Milligrams per Litre	Weekly	-	3.0	4	0.09	0.13	0.14	0.16	no	5	< 0.01	0.16	0.10	0.37	no	2	< 0.01	0.02	0.02	0.03	no
Manganese	Milligrams per Litre	Monthly	-	2.5	1	-	0.30	-	-	no	1	-	2.00	-	-	no	1	-	1.40	-	-	no
Nitrogen (Ammonia)	Milligrams per Litre	Daily	-	3.0	31	< 0.2	0.10	< 0.2	1.2	no	30	< 0.2	0.18	< 0.2	0.9	no	14	< 0.2	0.42	0.6	0.8	no
Nitrogen (Total)	Milligrams per Litre	Daily	-	15	31	2.3	4.99	4.7	8.6	no	30	2.3	4.26	3.8	9.2	no	14	2.0	4.71	4.3	10.2	no
Oil and Grease	Milligrams per Litre	Weekly	-	10	4	< 1	0.8	< 1	3.0	no	5	< 1	1.6	2.0	3.0	no	2	1.0	1.5	1.5	2.0	no
Phosphorus (Total)	Milligrams per Litre	Daily	-	0.5	31	0.09	0.29	0.30	0.45	no	30	0.04	0.23	0.25	0.33	no	14	0.04	0.26	0.26	0.59	yes
Sodium	Milligrams per Litre	Monthly	-	-	1	-	270	-	-	-	1	-	230	-	-	-	1	-	170	-	-	-
Temperature	degrees Celsius	Daily	-	-	31	19.9	23.48	23.7	26.3	-	30	22.0	25.90	26.3	27.8	-	14	25.1	26.54	26.5	27.7	-
Total Resin Acids	Milligrams per Litre	Monthly	-	-	0	-	-	-	-	-	1	-	0.02	-	-	-	1	-	0.01	-	-	-
Total Dissolved Solids	Milligrams per Litre	Daily	-	2000	31	779	1431	1460	1580	no	30	1160	1265	1280	1340	no	14	1140	1212	1225	1270	no
Total Organic Carbon	Milligrams per Litre	Quarterly	-	-	1	-	62	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-
Total Suspended Solids	Milligrams per Litre	Weekly	-	20	4	3.0	6.5	7.0	9.0	no	5	2.0	8.4	7.0	21.0	yes	2	12.0	13.5	13.5	15.0	no
Zinc	Milligrams per Litre	Weekly	-	0.4	4	0.07	0.10	0.10	0.11	no	5	< 0.002	0.08	0.06	0.18	no	2	< 0.002	0.00	0.00	0.01	no
pH	pH	Daily	6.5	8.5	31	7.4	7.83	7.9	8.1	no	30	7.6	7.87	7.9	8.1	no	14	7.5	7.86	7.8	8.1	no
Ethylene Diamine Tetraacetic Acid	Milligrams per Litre	Monthly	-	Combined	0	-	-	-	-	-	0	-	-	-	-	-	1	-	< 0.5	-	-	no
Diethylene Triamine Pentaacetic Acid	Milligrams per Litre	Monthly	-	value of 100	0	-	-	-	-	-	1	-	7.800	-	-	no	1	-	< 1	-	-	no
		Monthly Samples Collected			5 October 2011						2 November 2011						7 December 2011					
		Monthly Results Obtained																				
		Monthly Results Published																				
		Quarterly Samples Collected			5 October 2011																	
		Quarterly Results Obtained																				
		Quarterly Results Published																				



Monitoring point1

Discharge to waters, Effluent quality and volume monitoring

		Licence requirements	January								February						March					
Pollutant	Units of measure	Monitoring frequency required when discharging	0 percentile limit	100 percentile limit	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)
AOX	Milligrams per Litre	Quarterly	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-
Biochemical Oxygen Demand	Milligrams per Litre	Daily	-	20	0	-	-	-	-	-	1	15	15.0	15	15	no	0	-	-	-	-	-
Cadmium	Milligrams per Litre	Monthly	-	0.006	0	-	-	-	-	-	1	-	< 0.002	-	-	no	0	-	-	-	-	-
Chemical Oxygen Demand	Milligrams per Litre	Daily	-	-	0	-	-	-	-	-	1	284	284	284	284	-	0	-	-	-	-	-
Chloride	Milligrams per Litre	Monthly	-	-	0	-	-	-	-	-	1	-	47	-	-	-	0	-	-	-	-	-
Colour	Hazen	Daily	-	-	0	-	-	-	-	-	1	600	600	600	600	-	0	-	-	-	-	-
Copper	Milligrams per Litre	Monthly	-	0.05	0	-	-	-	-	-	1	-	< 0.01	-	-	no	0	-	-	-	-	-
Iron	Milligrams per Litre	Weekly	-	3.0	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-
Manganese	Milligrams per Litre	Monthly	-	2.5	0	-	-	-	-	-	1	-	0.52	-	-	no	0	-	-	-	-	-
Nitrogen (Ammonia)	Milligrams per Litre	Daily	-	3.0	0	-	-	-	-	-	1	< 0.2	< 0.2	< 0.2	< 0.2	no	0	-	-	-	-	-
Nitrogen (Total)	Milligrams per Litre	Daily	-	15	0	-	-	-	-	-	1	0.2	0.20	0.2	0.2	no	0	-	-	-	-	-
Oil and Grease	Milligrams per Litre	Weekly	-	10	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-
Phosphorus (Total)	Milligrams per Litre	Daily	-	0.5	0	-	-	-	-	-	1	0.93	0.93	0.93	0.93	yes	0	-	-	-	-	-
Sodium	Milligrams per Litre	Monthly	-	-	0	-	-	-	-	-	1	-	180	-	-	-	0	-	-	-	-	-
Temperature	degrees Celsius	Daily	-	-	0	-	-	-	-	-	1	30.3	30.27	30.3	30.3	-	0	-	-	-	-	-
Total Resin Acids	Milligrams per Litre	Monthly	-	-	0	-	-	-	-	-	1	-	0.00	-	-	-	0	-	-	-	-	-
Total Dissolved Solids	Milligrams per Litre	Daily	-	2000	0	-	-	-	-	-	1	1320	1320	1320	1320	no	0	-	-	-	-	-
Total Organic Carbon	Milligrams per Litre	Quarterly	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-
Total Suspended Solids	Milligrams per Litre	Weekly	-	20	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-
Zinc	Milligrams per Litre	Weekly	-	0.4	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-
pH	pH	Daily	6.5	8.5	0	-	-	-	-	-	1	7.8	-	7.8	7.8	no	0	-	-	-	-	-
Ethylene Diamine Tetraacetic Acid	Milligrams per Litre	Monthly	-	Combined	0	-	-	-	-	-	1	-	0.600	-	-	no	0	-	-	-	-	-
Diethylene Triamine Pentaacetic Acid	Milligrams per Litre	Monthly	-	value of 100	0	-	-	-	-	-	1	-	< 1	-	-	no	0	-	-	-	-	-
		Monthly Samples Collected									1 February 2012											
		Monthly Results Obtained																				
		Monthly Results Published																				
		Quarterly Samples Collected																				
		Quarterly Results Obtained																				
		Quarterly Results Published																				

		Licence requirements	April								May						June					
Pollutant	Units of measure	Monitoring frequency required when discharging	0 percentile limit	100 percentile limit	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)
AOX	Milligrams per Litre	Quarterly	-	-	1	-	0.25	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-
Biochemical Oxygen Demand	Milligrams per Litre	Daily	-	20	14	11	26.9	20	48	yes	31	12	50.0	51	80	yes	30	5	11.0	9	22	yes
Cadmium	Milligrams per Litre	Monthly	-	0.006	1	-	< 0.002	-	-	no	1	-	< 0.002	-	-	no	1	-	< 0.002	-	-	no
Chemical Oxygen Demand	Milligrams per Litre	Daily	-	-	14	210	293	270	400	-	31	292	466	480	550	-	30	162	245	230	360	-
Chloride	Milligrams per Litre	Monthly	-	-	1	-	45	-	-	-	1	-	57	-	-	-	1	-	58	-	-	-
Colour	Hazen	Daily	-	-	14	200	288	300	320	-	31	5	269	250	600	-	30	200	289	300	400	-
Copper	Milligrams per Litre	Monthly	-	0.05	1	-	< 0.01	-	-	no	1	-	< 0.01	-	-	no	1	-	< 0.01	-	-	no
Iron	Milligrams per Litre	Weekly	-	3.0	2	0.18	0.19	0.19	0.19	no	5	0.11	0.19	0.19	0.26	no	4	< 0.01	0.05	0.06	0.07	no
Manganese	Milligrams per Litre	Monthly	-	2.5	1	-	0.65	-	-	no	1	-	0.92	-	-	no	1	-	0.81	-	-	no
Nitrogen (Ammonia)	Milligrams per Litre	Daily	-	3.0	14	< 0.2	0.21	0.1	0.6	no	31	< 0.2	0.31	< 0.2	1.1	no	30	< 0.2	0.36	0.3	1.7	no
Nitrogen (Total)	Milligrams per Litre	Daily	-	15	14	2.0	3.22	2.3	8.0	no	31	2.0	4.11	4.0	7.6	no	30	0.4	3.39	3.2	6.8	no
Oil and Grease	Milligrams per Litre	Weekly	-	10	2	3.0	4.0	4.0	5.0	no	5	3.0	5.8	5.0	9.0	no	4	< 1	2.3	2.0	5.0	no
Phosphorus (Total)	Milligrams per Litre	Daily	-	0.5	14	0.42	0.59	0.58	0.92	yes	31	0.34	0.54	0.54	0.87	yes	30	0.28	0.40	0.40	0.52	yes
Sodium	Milligrams per Litre	Monthly	-	-	1	-	190	-	-	-	1	-	160	-	-	-	1	-	180	-	-	-
Temperature	degrees Celsius	Daily	-	-	13	21.8	24.25	24.9	26.0	-	28	19.9	21.58	21.3	24.7	-	30	18.7	19.68	19.7	20.8	-
Total Resin Acids	Milligrams per Litre	Monthly	-	-	1	-	0.00	-	-	-	1	-	< 0.0001	-	-	-	1	-	0.01	-	-	-
Total Dissolved Solids	Milligrams per Litre	Daily	-	2000	13	989	1125	1070	1320	no	31	1190	1344	1350	1450	no	30	1210	1289	1280	1540	no
Total Organic Carbon	Milligrams per Litre	Quarterly	-	-	1	-	81	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-
Total Suspended Solids	Milligrams per Litre	Weekly	-	20	2	21.0	29.5	29.5	38.0	yes	5	27.0	46.8	54.0	62.0	yes	4	4.0	11.5	6.0	30.0	yes
Zinc	Milligrams per Litre	Weekly	-	0.4	2	0.03	0.03	0.03	0.04	no	5	0.03	0.05	0.05	0.06	no	4	0.02	0.04	0.04	0.06	no
pH	pH	Daily	6.5	8.5	13	7.2	7.60	7.6	7.8	no	31	7.3	7.56	7.6	7.9	no	30	6.7	7.79	7.9	8.0	no
Ethylene Diamine Tetraacetic Acid	Milligrams per Litre	Monthly	-	Combined	1	-	< 0.5	-	-	no	1	-	< 0.5	-	-	no	1	-	< 0.5	-	-	no
Diethylene Triamine Pentaacetic Acid	Milligrams per Litre	Monthly	-	value of 100	1	-	< 1	-	-	no	1	-	2.600	-	-	no	1	-	1.500	-	-	no
		Monthly Samples Collected	4 April 2012								1 May 2012						6 June 2012					
		Monthly Results Obtained	23 April 2012								28 May 2012						14 June 2012					
		Monthly Results Published	27 June 2012								27 June 2012						27 June 2012					
		Quarterly Samples Collected	4 April 2012																			
		Quarterly Results Obtained	23 April 2012																			
		Quarterly Results Published	27 June 2012																			

		Yearly Licence requirements									
Pollutant	Units of measure	Monitoring frequency required when discharging	Number of results	Minimum Value	Maximum Value	50 percentile limit	50 percentile value	Exceedance (yes/no)	90 percentile limit	90 percentile value	Exceedance (yes/no)
Total Dissolved Solids	Milligrams per Litre	Daily	229	779	1580	1650	1345	no	-	-	-
Nitrogen (Total)	Milligrams per Litre	Daily	230	0.2	18.3	4	4.10	yes	7	7.30	yes
Phosphorus (Total)	Milligrams per Litre	Daily	230	0.03	0.93	0.2	0.29	yes	0.3	0.55	yes
Nitrogen (Ammonia)	Milligrams per Litre	Daily	230	< 0.2	1.70	0.8	< 0.2	no	1.0	0.90	no
Biochemical Oxygen Demand	Milligrams per Litre	Daily	231	< 2	80	14	8.0	no	18	43	yes

		Yearly Licence requirements				
Volume Limit	Unit of measure	Monitoring frequency required when discharging	Number of results	Volume Limit	Maximum Value	Exceedance (yes/no)
Liquids discharged to water	kilolitres per day	Daily	226	10000	9286	no

Monitoring point

2

Discharge to waters, Cooling Water quality and volume monitoring

		Licence requirements			July						August						September					
		Monitoring frequency required when discharging	0 percentile limit	100 percentile limit	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)
Biochemical Oxygen Demand	Milligrams per Litre	Monthly	-	-	1	-	< 2	-	-	-	1	-	< 2	-	-	-	1	-	< 2	-	-	-
Chemical Oxygen Demand	Milligrams per Litre	Daily	-	80	31	< 5	4.2	6	10	no	31	< 5	3.5	5	12	no	30	< 5	0.4	< 5	6	no
Nitrogen (Total)	Milligrams per Litre	Monthly	-	-	1	-	0	-	-	-	1	-	0	-	-	-	1	-	0	-	-	-
Oil and Grease	Milligrams per Litre	Monthly	-	10	1	-	< 1	-	-	no	1	-	< 1	-	-	no	1	-	< 1	-	-	no
Phosphorus (Total)	Milligrams per Litre	Monthly	-	-	1	-	< 0.01	-	-	-	1	-	< 0.01	-	-	-	1	-	< 0.01	-	-	-
Temperature	degrees Celsius	Continuous	-	40	31	16.1	17.38	17.3	18.5	no	31	18.7	21.44	20.9	24.3	no	30	18.8	20.61	20.5	22.7	no
Total Dissolved Solids	Milligrams per Litre	Daily	-	200	31	35	54.9	56	69	no	31	35	60.0	54	140	no	30	12	53.0	56	90	no
Total Suspended Solids	Milligrams per Litre	Monthly	-	-	1	-	< 2	-	-	-	1	-	< 2	-	-	-	1	-	< 2	-	-	-
Zinc	Milligrams per Litre	Monthly	-	-	1	-	< 0.002	-	-	-	1	-	< 0.002	-	-	-	1	-	< 0.002	-	-	-
pH	pH	Daily	6.5	8.5	30	7.2	7.45	7.5	7.6	no	31	7.3	7.47	7.5	7.5	no	30	7.3	7.49	7.5	7.6	no
		Monthly Oil and Grease Sample Collected			13 July 2011						10 August 2011						14 September 2011					
		Monthly Oil and Grease Result Obtained																				
		Monthly Oil and Grease Result Publishec																				
		Other Monthly Samples Collected			13 July 2011						10 August 2011						14 September 2011					
		Other Monthly Results Obtained																				
		Other Monthly Results Published																				

		Licence requirements			October						November						December					
		Monitoring frequency required when discharging	0 percentile limit	100 percentile limit	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)
Biochemical Oxygen Demand	Milligrams per Litre	Monthly	-	-	1	-	< 2	-	-	-	1	-	< 2	-	-	-	1	-	< 2	-	-	-
Chemical Oxygen Demand	Milligrams per Litre	Daily	-	80	31	< 5	1.0	< 5	7	no	30	< 5	< 5	< 5	< 5	no	31	< 5	3.5	3	9	no
Nitrogen (Total)	Milligrams per Litre	Monthly	-	-	1	-	0	-	-	-	1	-	0	-	-	-	1	-	0	-	-	-
Oil and Grease	Milligrams per Litre	Monthly	-	10	1	-	1	-	-	no	1	-	< 1	-	-	no	1	-	2	-	-	no
Phosphorus (Total)	Milligrams per Litre	Monthly	-	-	1	-	< 0.01	-	-	-	1	-	< 0.01	-	-	-	1	-	< 0.01	-	-	-
Temperature	degrees Celsius	Continuous	-	40	31	19.9	23.48	23.7	26.3	no	30	22.0	25.90	26.3	27.8	no	31	25.1	27.72	27.7	29.8	no
Total Dissolved Solids	Milligrams per Litre	Daily	-	200	31	40	65.4	60	180	no	30	52	73.2	69	140	no	31	32	83.3	78	180	no
Total Suspended Solids	Milligrams per Litre	Monthly	-	-	1	-	< 2	-	-	-	1	-	< 2	-	-	-	1	-	< 2	-	-	-
Zinc	Milligrams per Litre	Monthly	-	-	1	-	< 0.002	-	-	-	1	-	< 0.002	-	-	-	1	-	< 0.002	-	-	-
pH	pH	Daily	6.5	8.5	31	7.5	7.60	7.6	8.6	yes	30	7.5	7.57	7.6	7.7	no	31	7.2	7.59	7.6	8.0	no
		Monthly Oil and Grease Sample Collected			12 October 2011						9 November 2011						14 December 2011					
		Monthly Oil and Grease Result Obtained																				
		Monthly Oil and Grease Result Publishec																				
		Other Monthly Samples Collected			12 October 2011						9 November 2011						14 December 2011					
		Other Monthly Results Obtained																				
		Other Monthly Results Published																				

Monitoring point

2

Discharge to waters, Cooling Water quality and volume monitoring

		Licence requirements			January						February						March					
Pollutant	Units of measure	Monitoring frequency required when discharging	0 percentile limit	100 percentile limit	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)
Biochemical Oxygen Demand	Milligrams per Litre	Monthly	-	-	1	-	< 2	-	-	-	1	-	< 2	-	-	-	1	-	< 2	-	-	-
Chemical Oxygen Demand	Milligrams per Litre	Daily	-	80	31	< 5	4.3	5	11	no	28	< 5	1.7	< 5	12	no	31	< 5	0.7	< 5	12	no
Nitrogen (Total)	Milligrams per Litre	Monthly	-	-	1	-	0	-	-	-	1	-	0	-	-	-	1	-	1	-	-	-
Oil and Grease	Milligrams per Litre	Monthly	-	10	1	-	< 1	-	-	no	1	-	2	-	-	no	1	-	4	-	-	no
Phosphorus (Total)	Milligrams per Litre	Monthly	-	-	1	-	< 0.01	-	-	-	1	-	< 0.01	-	-	-	1	-	< 0.01	-	-	-
Temperature	degrees Celsius	Continuous	-	40	31	23.3	29.53	29.9	31.3	no	28	28.2	30.36	30.5	31.2	no	31	22.5	28.02	29.0	30.1	no
Total Dissolved Solids	Milligrams per Litre	Daily	-	200	31	57	86.1	84	112	no	28	31	65.8	66	160	no	31	46	66.5	68	81	no
Total Suspended Solids	Milligrams per Litre	Monthly	-	-	1	-	< 2	-	-	-	1	-	3	-	-	-	1	-	< 2	-	-	-
Zinc	Milligrams per Litre	Monthly	-	-	1	-	< 0.002	-	-	-	1	-	< 0.002	-	-	-	1	-	< 0.002	-	-	-
pH	pH	Daily	6.5	8.5	31	6.5	7.44	7.6	7.7	no	28	7.0	7.60	7.6	8.0	no	31	6.7	7.58	7.6	8.4	no
		Monthly Oil and Grease Sample Collected			18 January 2012						9 February 2012						14 March 2012					
		Monthly Oil and Grease Result Obtained															16 April 2012					
		Monthly Oil and Grease Result Publishec															27 June 2012					
		Other Monthly Samples Collected			18 January 2012						9 February 2012						14 March 2012					
		Other Monthly Results Obtained															4 April 2012					
		Other Monthly Results Published															27 June 2012					

		Licence requirements			April						May						June					
Pollutant	Units of measure	Monitoring frequency required when discharging	0 percentile limit	100 percentile limit	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Exceedance (yes/no)
Biochemical Oxygen Demand	Milligrams per Litre	Monthly	-	-	1	-	< 2	-	-	-	1	-	< 2	-	-	-	1	-	< 2	-	-	-
Chemical Oxygen Demand	Milligrams per Litre	Daily	-	80	30	< 5	2.4	< 5	8	no	31	< 5	4.0	5	16	no	30	< 5	4.7	< 5	26	no
Nitrogen (Total)	Milligrams per Litre	Monthly	-	-	1	-	0	-	-	-	1	-	0	-	-	-	1	-	0	-	-	-
Oil and Grease	Milligrams per Litre	Monthly	-	10	1	-	6	-	-	no	1	-	1	-	-	no	1	-	1	-	-	no
Phosphorus (Total)	Milligrams per Litre	Monthly	-	-	1	-	< 0.01	-	-	-	1	-	< 0.01	-	-	-	1	-	< 0.01	-	-	-
Temperature	degrees Celsius	Continuous	-	40	30	21.8	26.12	25.9	30.2	no	31	19.9	21.56	21.3	24.7	no	30	18.7	19.68	19.7	20.8	no
Total Dissolved Solids	Milligrams per Litre	Daily	-	200	30	19	55.0	52	112	no	31	28	62.1	57	140	no	30	28	62.0	64	100	no
Total Suspended Solids	Milligrams per Litre	Monthly	-	-	1	-	< 2	-	-	-	1	-	< 2	-	-	-	1	-	2	-	-	-
Zinc	Milligrams per Litre	Monthly	-	-	1	-	< 0.002	-	-	-	1	-	< 0.002	-	-	-	1	-	< 0.002	-	-	-
pH	pH	Daily	6.5	8.5	30	6.8	7.37	7.5	7.7	no	31	7.2	7.53	7.5	7.9	no	30	6.8	7.49	7.5	7.7	no
		Monthly Oil and Grease Sample Collected			11 April 2012						9 May 2012						13 June 2012					
		Monthly Oil and Grease Result Obtained			3 May 2012						21 May 2012						27 June 2012					
		Monthly Oil and Grease Result Publishec			27 June 2012						27 June 2012						6 July 2012					
		Other Monthly Samples Collected			11 April 2012						9 May 2012						13 June 2012					
		Other Monthly Results Obtained			23 April 2012						17 May 2012						21 June 2012					
		Other Monthly Results Published			27 June 2012						27 June 2012						27 June 2012					

Yearly Licence requirements						
Pollutant	Units of measure	Monitoring frequency required when discharging	Number of results	90 percentile limit	90 percentile value	Exceedance (yes/no)
Oil and Grease	Milligrams per Litre	Monthly	12	2	4	yes

Yearly Licence requirements						
Volume Limit	Unit of measure	Monitoring frequency required when discharging	Number of results	Volume Limit	Maximum Value	Exceedance (yes/no)
Liquids discharged to water	kilolitres per day	Daily	366	10000	7058	no

**Monitoring point****5****Effluent quality monitoring - 4 Day Pond Outlet**

		Licence requirements	July					August					September				
Pollutant	Units of measure	Monitoring frequency required when discharging	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value
Biochemical Oxygen Demand	Milligrams per Litre	Weekly	4	12	14.0	14	16	3	9	10.0	10	11	4	9	12.0	13	14
Nitrogen (Total)	Milligrams per Litre	Weekly	4	2.75	3.71	3.34	5.40	3	4.60	4.67	4.60	4.80	4	5.26	5.65	5.58	6.16
Phosphorus (Total)	Milligrams per Litre	Weekly	4	0.14	0.20	0.18	0.30	3	0.33	0.37	0.37	0.42	4	0.17	0.33	0.38	0.38
Sulfate	Milligrams per Litre	Weekly	4	360	425	435	470	3	360	410	400	470	4	460	518	510	590
Total Dissolved Solids	Milligrams per Litre	Weekly	4	1300	1343	1335	1400	3	1300	1333	1300	1400	4	1400	1425	1400	1500
Total Suspended Solids	Milligrams per Litre	Weekly	4	12	12.0	12	12	3	7	9.7	8	14	4	13	16.0	16	19
Zinc	Milligrams per Litre	Weekly	4	0.02	0.023	0.02	0.03	3	0.02	0.020	0.02	0.02	4	0.04	0.058	0.06	0.07
pH	pH	Weekly	4	7.6	7.70	7.7	7.8	3	7.8	7.83	7.8	7.9	4	7.6	7.78	7.8	7.9

		Licence requirements	October					November					December				
Pollutant	Units of measure	Monitoring frequency required when discharging	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value
Biochemical Oxygen Demand	Milligrams per Litre	Weekly	4	6	7.3	7	10	5	7	10.4	10	15	3	24	31.0	32	37
Nitrogen (Total)	Milligrams per Litre	Weekly	4	4.60	6.01	5.62	8.20	5	3.72	4.74	4.19	7.13	3	3.10	3.37	3.50	3.51
Phosphorus (Total)	Milligrams per Litre	Weekly	4	0.37	0.41	0.40	0.45	5	0.29	0.34	0.33	0.41	3	0.43	0.59	0.62	0.72
Sulfate	Milligrams per Litre	Weekly	4	420	505	525	550	5	310	396	400	510	3	300	400	430	470
Total Dissolved Solids	Milligrams per Litre	Weekly	4	1400	1425	1400	1500	5	1200	1260	1300	1300	3	1200	1200	1200	1200
Total Suspended Solids	Milligrams per Litre	Weekly	4	5	11.5	12	18	5	10	21.8	15	38	3	16	21.0	23	24
Zinc	Milligrams per Litre	Weekly	4	0.12	0.135	0.13	0.16	5	0.04	0.114	0.08	0.20	3	0.02	0.020	0.02	0.02
pH	pH	Weekly	4	7.7	7.80	7.8	7.9	5	7.4	7.76	7.8	7.9	3	7.6	7.67	7.6	7.8

		Licence requirements	January					February					March				
Pollutant	Units of measure	Monitoring frequency required when discharging	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value
Biochemical Oxygen Demand	Milligrams per Litre	Weekly	0					0					0				
Nitrogen (Total)	Milligrams per Litre	Weekly	0					0					0				
Phosphorus (Total)	Milligrams per Litre	Weekly	0					0					0				
Sulfate	Milligrams per Litre	Weekly	0					0					0				
Total Dissolved Solids	Milligrams per Litre	Weekly	0					0					0				
Total Suspended Solids	Milligrams per Litre	Weekly	0					0					0				
Zinc	Milligrams per Litre	Weekly	0					0					0				
pH	pH	Weekly	0					0					0				

		Licence requirements	April					May					June				
Pollutant	Units of measure	Monitoring frequency required when discharging	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value	Number of results	Minimum Value	Mean Value	Median Value	Maximum Value
Biochemical Oxygen Demand	Milligrams per Litre	Weekly	2	13	28.5	29	44	5	29	54.0	55	70	4	6	11.8	9	24
Nitrogen (Total)	Milligrams per Litre	Weekly	2	4.04	4.43	4.43	4.82	5	3.98	4.27	4.16	4.60	4	3.00	3.72	3.80	4.30
Phosphorus (Total)	Milligrams per Litre	Weekly	2	0.47	0.50	0.50	0.52	5	0.46	0.54	0.50	0.68	4	0.31	0.44	0.40	0.66
Sulfate	Milligrams per Litre	Weekly	2	280	285	285	290	5	340	352	350	370	4	330	343	340	360
Total Dissolved Solids	Milligrams per Litre	Weekly	2	1000	1050	1050	1100	5	1200	1280	1300	1300	4	1200	1250	1250	1300
Total Suspended Solids	Milligrams per Litre	Weekly	2	26	32.0	32	38	5	38	50.2	54	65	4	9	16.8	13	32
Zinc	Milligrams per Litre	Weekly	2	0.09	0.090	0.09	0.09	5	0.06	0.074	0.07	0.10	4	0.04	0.058	0.06	0.07
pH	pH	Weekly	2	7.7	7.75	7.8	7.8	5	7.4	7.66	7.7	7.9	4	7.3	7.65	7.8	7.8



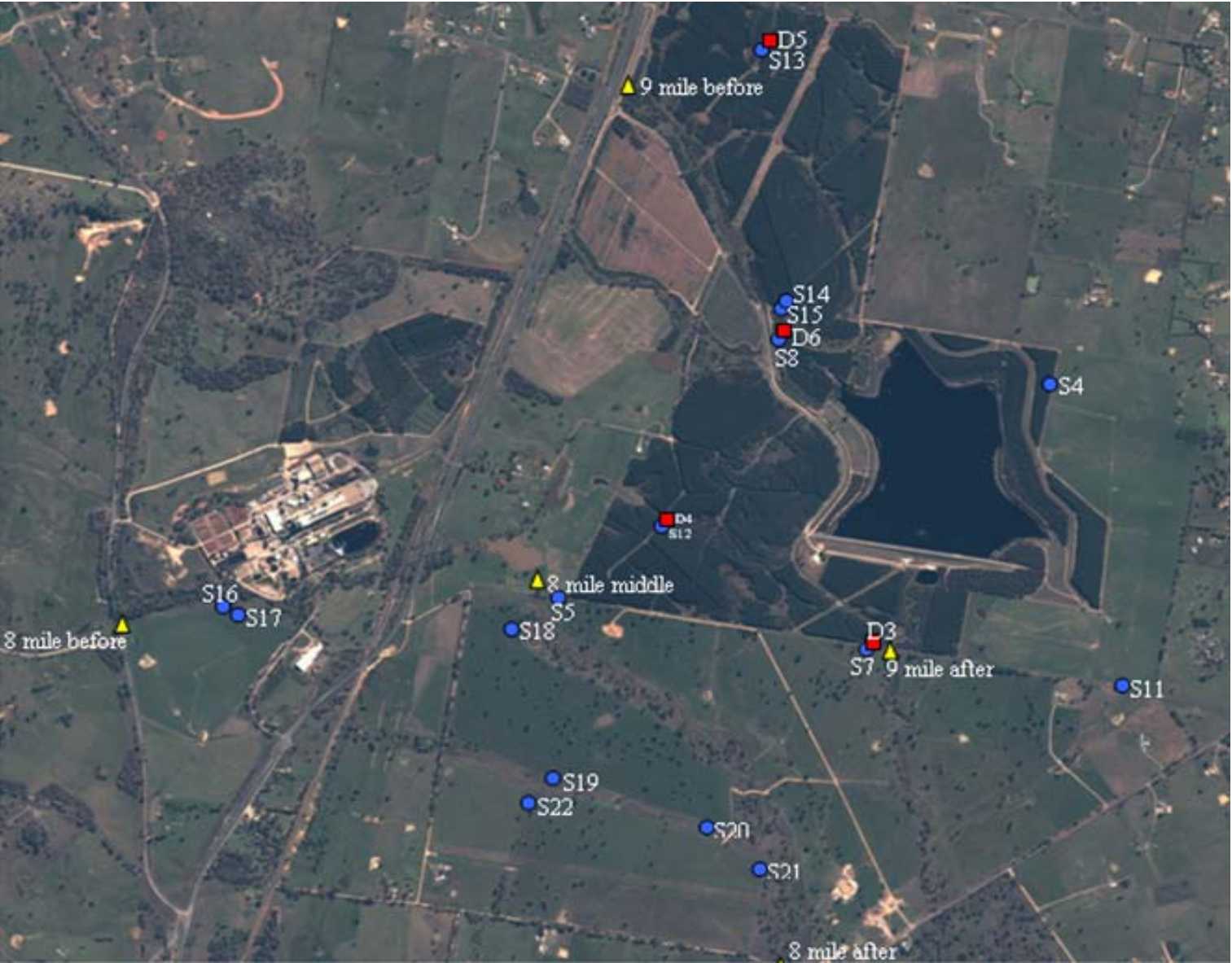
Monitoring point

9

Groundwater quality monitoring

		Deep Bores				Shallow Bores															
Pollutant	Units of measure	3	4	5	6	4	5	7	8	11	12	13	14	15	16	17	18	19	20	21	22
Bicarbonate	Milligrams per Litre		200	270	210			580	200	1100						180			250	550	
Calcium	Milligrams per Litre		99	380	26			120	19	190						17			21	44	
COD	Milligrams per Litre		0	12	170			52	0	73						7			56	0	
Chloride	Milligrams per Litre		780	1500	98			1200	15	1400						16			220	460	
Chromium	Milligrams per Litre		0.19	0.022	0			0.013	0.031	0.015						0.037			0.061	0.021	
Iron	Milligrams per Litre		0.71	1.8	0.1			9.6	16	3.7						3.1			47	9.8	
Lead	Milligrams per Litre		0.001	0.009	0.01			0.008	0.048	0.014						0.014			0.065	0.015	
Magnesium	Milligrams per Litre		78	170	7.2			87	15	250						18			23	49	
Manganese	Milligrams per Litre		0.009	0.081	0.01			0.12	0.18	0.035						0.022			0.14	0.11	
Nitrate	Milligrams per Litre		2	11	0.48			8.8	3.6	0.69						7.7			23	5.9	
Ammonia	Milligrams per Litre		0	0	0			0.8	0	0						0			0	0	
Total Nitrogen	Milligrams per Litre		2.3	11	4.8			15	4	1						8.2			25	6.9	
Total Phosphorus	Milligrams per Litre		0	0	0			1.2	0.05	0.1						0			1.1	0.24	
Potassium	Milligrams per Litre		3.4	3.5	1.2			9.7	5.5	1.3						1			5.9	2	
Sodium	Milligrams per Litre		300	510	98			740	87	850						57			220	350	
Sulphate	Milligrams per Litre		63	500	17			160	71	590						39			23	25	
Zinc	Milligrams per Litre		0.007	0.011	0.004			0.035	0.17	0.091						0.2			0.27	0.24	
Annual Samples Collected		Bore Dry	28 Mar 12	28 Mar 12	28 Mar 12	Bore Dry	Bore Dry	28 Mar 12	28 Mar 12	28 Mar 12	Bore Dry	Bore Dry	Bore Dry	Bore Dry	Bore Dry	28 Mar 12	Bore Dry	Bore Dry	28 Mar 12	28 Mar 12	Bore Dry
Annual Results Obtained			10 Apr 12	10 Apr 12	10 Apr 12			10 Apr 12	10 Apr 12	10 Apr 12						10 Apr 12			10 Apr 12	10 Apr 12	
Annual Results Published			27 Jun 12	27 Jun 12	27 Jun 12			27 Jun 12	27 Jun 12	27 Jun 12						27 Jun 12			27 Jun 12	27 Jun 12	

Ettamogah Site map showing Groundwater Bores



Note: Shallow Bores are denoted with blue circles and Deep Bores are denoted by red squares. The water quality of 8 and 9 mile creeks are also monitored, but are not required to be reported by EPL 1272

Monitoring point9

Groundwater quality monitoring

	Month	July				August				September				October				November				December			
	Pollutant	Standing Water Level	pH	Conductivity	Total Dissolved Solids	Standing Water Level	pH	Conductivity	Total Dissolved Solids	Standing Water Level	pH	Conductivity	Total Dissolved Solids	Standing Water Level	pH	Conductivity	Total Dissolved Solids	Standing Water Level	pH	Conductivity	Total Dissolved Solids	Standing Water Level	pH	Conductivity	Total Dissolved Solids
		Units of measure	Meters	pH	microsiemens per centimeter	Milligrams per litre	Meters	pH	microsiemens per centimeter	Milligrams per litre	Meters	pH	microsiemens per centimeter	Milligrams per litre	Meters	pH	microsiemens per centimeter	Milligrams per litre	Meters	pH	microsiemens per centimeter	Milligrams per litre	Meters	pH	microsiemens per centimeter
Deep Bores	3	Dry				Dry				Dry				Dry				Dry				Dry			
	4	Dry				Dry				Dry				Dry				Dry				Dry			
	5	Dry				Dry				Dry				Dry				Dry				Dry			
	6	Dry				Dry				Dry				Dry				Dry				Dry			
Shallow Bores	4	Dry				Dry				Dry				Dry				Dry				Dry			
	5	Dry				Dry				Dry				Dry				Dry				Dry			
	7	Dry				Dry				10.7	7.5	2500	5200	10.5		2800	4800	10.6	7.3	2800	5100	10.7	7.3	2700	4800
	8	1.5	6.9	420	650	1.7	6.8	410	650	1.7	7.1	520	890	2.7		580	820	2.1	6.9	530	870	2.5	6.8	440	740
	11	10.4	7.1	4000	6500	10.4	7.9	3800	6200	Dry				10.0		4000	6100	10.2	7.1	4000	6700	10.1	7.1	3900	6400
	12	Dry				Dry				Dry				Dry				Dry				Dry			
	13	Dry				Dry				Dry				Dry				Dry				Dry			
	14	Dry				Dry				Dry				Dry				Dry				Dry			
	15	Dry				Dry				Dry				Dry				Dry				Dry			
	16	Dry				Dry				Dry				Dry				Dry				Dry			
	17	4.4	6.8	340	510	3.5	6.7	340	530	4.0	6.8	310	510	3.8		340	480	4.2	6.6	260	420	4.3	6.6	250	380
	18	Dry				Dry				Dry				Dry				Dry				Dry			
	19	Dry				Dry				Dry				Dry				Dry				Dry			
	20	10.4	7.0	870	1400	10.4	7.2	880	1200	10.5	7.3	810	1200	10.4		910	1200	10.6	7.2	780	1300	10.4	7.4	900	1300
	21	6.5	7.1	1300	2400	6.6	7.2	1300	2400	6.6	7.4	1200	2400	6.6		1300	2300	6.5	7.3	1300	2400	6.5	7.2	1200	2300
	22	Dry				Dry				Dry				Dry				Dry				Dry			
Monthly Samples Collected		20 July 2011				30 August 2011				21 September 2011				19 October 2011				16 November 2011				21 December 2011			
Monthly Results Obtained		03 August 2011				06 September 2011				07 October 2011				27 October 2011				02 December 2011				18 January 2012			
Monthly Results Published		27 June 2012				27 June 2012				27 June 2012				27 June 2012				27 June 2012				27 June 2012			

	Month	January				February				March				April				May				June			
	Pollutant	Standing Water Level	pH	Conductivity	Total Dissolved Solids	Standing Water Level	pH	Conductivity	Total Dissolved Solids	Standing Water Level	pH	Conductivity	Total Dissolved Solids	Standing Water Level	pH	Conductivity	Total Dissolved Solids	Standing Water Level	pH	Conductivity	Total Dissolved Solids	Standing Water Level	pH	Conductivity	Total Dissolved Solids
		Units of measure	Meters	pH	microsiemens per centimeter	Milligrams per litre	Meters	pH	microsiemens per centimeter	Milligrams per litre	Meters	pH	microsiemens per centimeter	Milligrams per litre	Meters	pH	microsiemens per centimeter	Milligrams per litre	Meters	pH	microsiemens per centimeter	Milligrams per litre	Meters	pH	microsiemens per centimeter
Deep Bores	3	Dry				Dry				Dry				Dry				Dry				Dry			
	4	Dry				45.3	7.2	1000	1700	45.0	7.0	1600	2700	44.8	7.2	1500	2900	44.8	7.2	1800	2800	45.1	7.2	1700	2800
	5	Dry				44.7	7.2	4800	6100	44.7	7.0	4000	5400	44.7	7.0	3700	5900	44.7	7.1	4000	5400	45.0	7.2	4400	5900
	6	Dry				Dry				46.0	8.1	360	640	46.0	8.2	380	670	46.0	8.1	500	660	46.0	8.2	400	680
Shallow Bores	4	Dry				Dry				Dry				Dry				Dry				Dry			
	5	Dry				Dry				Dry				Dry				Dry				Dry			
	7	10.7	7.5	3100	5100	10.7	7.6	3000	5100	10.2	7.3	2800	4600	10.1	7.3	2700	4900	10.2	7.2	2800	4500	10.3	7.3	2800	4900
	8	2.5	7.1	480	730	2.6	7.2	510	730	1.7	7.3	360	510	1.8	7.2	300	470	1.7	7.0	460	520	1.7	6.9	360	590
	11	10.1	7.4	4500	6700	10.2	7.4	4300	6700	10.1	7.2	3900	6000	10.4	7.3	3600	6400	10.7	7.1	4200	5900	10.3	7.1	4000	6300
	12	Dry				Dry				Dry				Dry				Dry				Dry			
	13	Dry				Dry				Dry				Dry				Dry				Dry			
	14	Dry				Dry				Dry				Dry				Dry				Dry			
	15	Dry				Dry				Dry				Dry				Dry				Dry			
	16	Dry				Dry				Dry				Dry				Dry				Dry			
	17	4.6	6.9	320	460	4.8	6.8	420	460	3.9	6.8	310	450	4.2	6.9	340	480	4.8	6.6	440	440	4.8	6.8	280	450
	18	Dry				Dry				Dry				Dry				Dry				Dry			
	19	Dry				Dry				Dry				Dry				Dry				Dry			
	20	10.7	7.6	980	1300	10.8	7.5	900	1300	10.7	7.4	1000	1200	Dry				10.5	7.1	860	1400	10.4	7.3	910	1300
	21	6.7	7.5	1200	2400	7.5	7.2	1400	2400	6.7	7.2	1200	2200	6.2	7.4	1300	2300	6.5	7.2	1400	2200	6.3	7.2	1300	2300
	22	Dry				Dry				Dry				Dry				Dry				Dry			
Monthly Samples Collected		18 January 2012				15 February 2012				21 March 2012				18 April 2012				16 May 2012				20 June 2012			
Monthly Results Obtained		06 February 2012				23 February 2012				10 April 2012				26 April 2012				29 May 2012				27 June 2012			
Monthly Results Published		27 June 2012				27 June 2012				27 June 2012				27 June 2012				27 June 2012				06 July 2012			



## Monitoring point 6

### Effluent quality monitoring - Maryvale Effluent Reuse Area

Pollutant	Units of measure	Monitoring frequency required	Number of results	July	August	September	October	November	December	January	February	March	April	May	June
AOX	Milligrams per Litre	6 times a year	8	0.019		0.086		0.054	0.092	0.063	0.120	0.120		0.150	
Ammonia	Milligrams per Litre	6 times a year	8	< 0.2		< 0.2		0.20	< 0.2	< 0.2	< 0.2	< 0.2		< 0.2	
Biochemical Oxygen Demand	Milligrams per Litre	6 times a year	8	2		4		3	10	7	5	8		6	
Cadmium	Milligrams per Litre	6 times a year	8	< 0.002		< 0.002		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002		< 0.002	
Chemical Oxygen Demand	Milligrams per Litre	6 times a year	8	100		110		96	66	120	110	120		120	
Colour	Hazen	6 times a year	8	100		100		80	80	100	100	130		110	
Copper	Milligrams per Litre	6 times a year	8	< 5		< 5		< 5	< 5	< 5	< 5	< 5		0.010	
Diethylene Triamine Pentaacetic Acid	Milligrams per Litre	6 times a year	8	< 1		< 1		< 1	< 1	< 1	< 1	< 1		< 1	
Iron	Milligrams per Litre	6 times a year	8	0.06		0.10		0.07	0.22	0.09	0.14	0.22		0.21	
Manganese	Milligrams per Litre	6 times a year	8	0.04		0.09		0.18	0.13	0.11	0.18	0.21		0.12	
Nitrogen (Total)	Milligrams per Litre	6 times a year	8	2.12		2.10		2.41	4.00	3.20	3.60	2.90		2.60	
Phosphorus (Total)	Milligrams per Litre	6 times a year	8	0.14		0.05		0.36	0.17	0.12	0.74	0.49		0.16	
Total Dissolved Solids	Milligrams per Litre	6 times a year	8	1100		1000		1100	1000	1200	1300	980		1100	
Total Organic Carbon	Milligrams per Litre	6 times a year	8	46		38		37	42	47	45	46		44	
Total Suspended Solids	Milligrams per Litre	6 times a year	8	6		7		13	29	10	37	28		26	
Zinc	Milligrams per Litre	6 times a year	8	0.01		0.01		0.02	0.03	0.04	0.02	0.02		0.03	
Ethylene Diamine Tetraacetic Acid	Milligrams per Litre	6 times a year	8	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	
pH	pH	6 times a year	8	8.2		8.4		8.3	8.6	8.5	8.6	8.2		8.0	
Monthly Samples Collected				20 Jul 11		21 Sep 11		16 Nov 11	21 Dec 11	18 Jan 12	18 Feb 12	21 Mar 12		16 May 12	
Monthly Results Obtained												10 Apr 12		30 May 12	
Monthly Results Published												27 Jun 12		27 Jun 12	

## Monitoring point 10

### Soil Monitoring

See separate PDF report titled 'Soil Properties Report 21 July 2011'

## Monitoring point 11

### Discharge to Air, Air Emissions Monitoring

Pollutant	Units of measure	Monitoring frequency required	Number of results	July	August	September	October	November	December	January	February	March	April	May	June
Coarse Particulates	Milligrams per cubic meter	2 times a year	2					3.0					3.8		
Fine Particulates	Milligrams per cubic meter	2 times a year	2					22.0					1.8		
Nitrogen Oxides	Milligrams per cubic meter	2 times a year	2					163					77		
Bi-annual Samples Collected								9 Nov 11					17 Apr 12		
Bi-annual Results Obtained													24 May 12		
Bi-annual Results Published													27 Jun 12		

Non compliance log

Pollutant	Sample dates	Detail
Total Phosphorus	1/7 to 12/7	Sample point 1. Exceeded licence limit 10 times with values ranging from 0.52 to 0.71 mg/L. Caused by equipment issue in aeration system.
Ammonia	5/7 to 17/7	Sample point 1. Exceeded licence limit 6 times with values ranging from 3.3 to 7.1 mg/L. Caused by equipment issue in aeration system.
BOD	11/7	Sample point 1. Exceeded licence limit once with value of 21 mg/L. Caused by severe biological bulking incident.
Total Suspended Solids	10/7	Sample point 1. Exceeded licence limit once with value of 22 mg/L. Caused by severe biological bulking incident.
Ammonia	9/11 to 11/11	Sample point 1. Exceeded licence limit 3 times with values ranging from 3.3 to 4.1 mg/L. Production issues created a nutrient overdose situation.

Correction log

Sample date and time	Original data	Corrected data	Date corrected	Date originally published	Reason

Community Complaints

Complaint	Date	Detail