

Regain SPL Reprocessing Facility - Tomago Aluminium Smelter

Environmental Pollution Monitoring - Obtained Data

Environment Protection Licence Point 1 - Rotary Kiln Stack
Required Frequency - Bi-Annually

Draft Regulatory Limit and Test Period	Material Processed	Carbon Monoxide (mg/cu m)	Cyanide (mg/cu m)	Dioxins and Furans - Lower Bound (ng/cu m)	Dioxins and Furans - Middle Bound (ng/cu m)	Dry Gas Density (mg/cu m)	Fine Particulate (cu m/sec)	Flow (cu m/sec)	Moisture (%)	Nitrogen Oxides (mg/cu m)	Oxygen (O2) (%)	Polycyclic Aromatic Hydrocarbons (mg/cu m)	Sulphur Dioxide (mg/cu m)	Temperature (deg celcius)	Total Fluoride (mg/cu m)	Total Particulate (mg/cu m)	Type 1 & Type 2 Substances in Aggregate (mg/cu m)	Cadmium (mg/cu m)	Velocity (m/sec)	Volatile Organic Compounds (mg/m ³)	Date Sampled	Date Obtained	Date Published
Current Draft Regulatory Limit		tba	1.0	<-----0.1 in total----->		n.a.	10	n.a.	n.a.	25	n.a.	0.2	25	n.a.	5	20	0.5	0.025	n.a.	10			
Dec 2012 to Feb 2013	First Cut SPL Second Cut SPL	136 116	See Note 2 See Note 2	0.0045 0.00021	0.0053 0.00099	1.29 1.29	2.8 0.27	11.3 10.7	2.5 3.1	3 1	20.23 21.3	0.096 0.056	0 0	81.5 81.3	0.7 1.4	1.9 1.1	0.019 0.02	< 0.0049	17.3 16.7	n.a. n.a.	26/27 Feb 13	31-Oct-13	8-Nov-13
Mar 2012 to May 2013	First Cut SPL Second Cut SPL	116 59	See Note 2 See Note 2	0.00066 0.0011	0.00098 0.0017	1.21 1.29	0.26 1.2	6.2 8.2	2.1 1.7	7 10	20.32 20.49	0.085 0.011	4 5	76.9 78	0.098 0.089	2.7 0.56	0.1 0.1	0.0077 0.0047	9.7 13	n.a. n.a.	23&27 May 13	31-Oct-13	8-Nov-13
Note 1 - Plant under commissioning during August and September. Sampling deferred until October.																							
Note 2 - Cyanide sampling method not specified and under development during December, 2012 and March, 2013.																							
Note 3 - Test results from February and May 2013 sampling made available after verification of testing methods																							
Note 4 - Monitoring test for Poly Aromatic Hydrocarbons for second cut SPL material not performed in October due to abnormal conditions (test to be performed in November)																							
Jun, Jul, Oct 2013	First Cut SPL Second Cut SPL	57 58	0.19 0.044	0.00067 0.0033	0.003 0.0033	1.29 1.29	1.4 4.8	11 10.8	2.2 3.3	10 9	20.45 20.32	0.16 See Note 4	8 2	76.3 74.8	0.077 0.26	0.92 <0.34	0.016 0.064	0.0082 0.0061	17 16.8	n.a. n.a.	3 & 8 Oct 13	31 Oct and 18 Nov 2013	8 Nov and 29 Nov 2013
Nov 2013 (Supplementary testing)	First Cut SPL Second Cut SPL First Cut SPL Second Cut SPL	n.a. n.a. n.a. n.a.	<0.11 <0.084 0.86 0.095	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	14 & 20 November	16-Dec-13	20-Dec-13	
Note 5 - Two monitoring tests for cyanide were performed in November after development of cyanide sampling method in October 2013																							
Note 6 - Single monitoring test for Aromatic Hydrocarbons for second cut SPL material not performed in October due to abnormal conditions was done in November																							
Feb-14	First Cut SPL Second Cut SPL	8 56	0.0037 0.021	0.0011 0.0033	0.0017 0.0072	1.29 1.29	0.54 3.1	6.4 8.6	3.3 3	7 8	20.4 20.3	0.4 0.039	13 9	77.8 78.9	0.42 0.6	<0.28 1.9	0.013 0.028	0.0018 0.015	13.3 18	n.a. n.a.	17 & 21 Feb 14	28-Mar-14	29-Mar-14
Sep-14	First Cut SPL Second Cut SPL	112 112	<0.0031 <0.0028	0.0086 0.016	0.013 0.02	1.29 1.29	5.6 2.1	8.03 8.3	2.27 3.03	11 1	20.01 20.29	0.41 0.19	<3 <3	80.3 71.7	0.85 0.57	8.7 8.2	0.03 0.0054	<0.00016 <0.0002	17 17	5.8 0.3	24-25 Sept 14	5-Nov-14	28-Nov-14
Note 7 - The addition of a 100 percentile concentration limit for volatile organic compounds at Point 1 (condition L2.3)																							
Mar - May 2015	First Cut SPL Second Cut SPL	56 31	0.1 0.7	0.0007 0.00036	0.0011 0.00084	1.29 1.29	7 6.6	8.8 8.7	3 3.5	4 6	20.24 20.49	0.0061 0.0058	<0.1 <0.1	77.5 76.5	1.8 2.7	8.9 3.8	0.12 0.066	0.0016 0.0036	18.3 18.5	2.6 3.3	Mar - May 2015	17-Jun-15	19-Jun-15
Oct - Nov 2015	First Cut SPL Second Cut SPL	121 67	0.0075 0.23	0.0036 0.0052	0.0041 0.0055	28.9 28.9	1.4 1.2	7.9 8.5	2.8 3.5	5 2	20.12 20.19	0.23 0.071	<1 <1	85.4 82.2	0.28 0.74	4.7 4.5	0.072 0.0085	0.0087 0.0064	17 18	<0.38 <0.37	Oct - Nov 2015	4-Dec-15	4-Dec-15
Apr - May 2016	First Cut SPL Second Cut SPL	122 66	0.29 0.57	0.0005 0.0004	0.0022 0.0022	1.29 1.29	2.1 2.1	8.9 9.4	3.15 1.98	8 3	20.32 20.27	0.0068 0.0067	<1 <1	83.1 83.5	0.074 0.38	2.6 1	0.00025 0.017	0.00017 0.0026	18.75 20	<0.36 <0.36	Apr-May 2016	30-Jun-16	1-Jul-16
Sept - Nov 2016	First Cut SPL Second Cut SPL	95 91	0.41 0.28	0.000041 0.000026	0.0009 0.00095	1.29 1.29	1.5 1.8	8.9 9	2.6 2.3	4 6	20.2 20.3	0.02 0.029	<0.1 <0.1	84 86	0.79 0.61	8.1 8	0.004 0.043	<0.00017 0.000085	19 19	<0.36 <0.36	Sept - Nov 2016	25-Nov-16	25-Nov-16
Apr - May 2017	First Cut SPL Second Cut SPL	51.00 57	0.16 <0.072	0.00045 0.0013	0.00120 0.0014	1.29 1.29	3.60 9.9	8.70 8.3	3.00 3.8	2.00 <1	20.40 20.3	0.00084 0.0029	<1 <1	78.50 88.1	0.16 0.047	12.00 13	0.028 0.031	0.00710 0.00089	18.00 18	0.40 0.3	Mar - May 2017	20-Jul-17	20-Jul-17
Aug - Nov 2017	First Cut SPL Second Cut SPL	73.00 50	<0.062 <0.066	0.04000 0.013	0.04000 0.013	1.29 1.29	3.50 6.6	9.00 8.7	2.30 2.5	3.00 8	20.20 20.1	0.03900 0.22	2 8	82.00 81.5	0.25 0.34	15.00 7.5	0.017 0.0039	0.00850 0.00017	18.00 18	<0.27 <0.36	Aug - Nov 2017	5-Dec-17	5-Dec-17
Mar - May 2018	First Cut SPL Second Cut SPL	68.00 36	<0.063 <0.051	0.00280 0.0035	0.00300 0.0041	1.29 1.29	2.40 2.9	8.60 9.3	1.80 1.8	5.00 5	20.50 20.4	0.01300 0.01	5 5	74.00 84	0.61 0.83	9.30 9.9	0.017 0.032	0.00060 0.017	18.00 19	<0.36 <0.36	Mar - May 2018	12-Jul-18	17-Jul-18
Aug - Oct 2018	First Cut SPL Second Cut SPL	84 41	0.034 <0.077	0.0019 0.00075	0.0022 0.00094	1.29 1.29	3.4 3.9	8.8 8.9	2.3 1.8	7 2	20 20.2	0.0069 0.0089	<1 1	80.5 76.5	0.073 0.36	5.2 6.8	0.192 0.0137	0.00024 0.00042	18.3 18.3	<0.33 1.8	Aug - Oct 2018	8-Nov-18	8-Nov-18
Feb - Mar 2019	First Cut SPL Second Cut SPL	204 34	0.81 0.098	0.00013 0.0027	0.0005 0.0034	1.29 1.29	3.2 1.6	8.5 8.4	2.2 1.8	9 5	20.1 20.4	0.011 0.011	<1 3	80 84	0.76 0.79	7 11	0.011 0.007	0.00014 0.00053	17.8 17.5	<0.18 <0.18	Feb - Mar 2019	12-Apr-19	16-Apr-19
Aug - Oct 2019	First Cut SPL Second Cut SPL	70 68	0.26 0.25	0.0003 0.00027	0.00059 0.00076	1.29 1.29	10 2.8	6.6 6.4	2.1 1.9	9 3	20.1 20.2	0.013 0.028	2 2	86 79	0.69 0.39	16 3.5	0.011 0.038	0.0027 0.023	14 13	<0.18 1.8	Aug - Oct 2019	12-Nov-19	12-Nov-19
Feb-20	First Cut SPL Second Cut SPL	67 85	0.76 1	0.024 0.011	0.03 0.015	1.29 1.29	3.2 0.67	8.7 9	2.6 2.2	9 6	20.3 20.6	0.086 0.11	6 6	85 85	0.8 0.75	4.1 10	0.0069 0.02	0.0013 0.00071	19 19	<0.19 <0.19	Feb-20	20-Apr-20	20-Apr-20
Sept - Nov 2020	First Cut SPL Second Cut SPL	66 82	0.28 0.49	0.0015 0.0012	0.004 0.0038	1.29 1.29	1.4 2.0	9 8.8	1.7 2.1	3 5	20.2 20.4	0.00092 0.0025	2 <1	86 88	0.098 1.2	2.5 3.4	0.019 0.0089	0.00065 0.000035	19 18	0.28 0.42	Sept - Nov 2020	17-Dec-20	22-Dec-20
June - Aug 2021	SPL	79	0.51	0.00014	0.00043	1.29	<0.11	8.2	1.8	5	20.2	0.0000045	<1	87.1	0.071	0.56	0.13	<0.0001	17	<0.36	June - Aug 2021	7-Oct-21	15-Oct-21
Sept - Nov 2021	SPL	32	0.61	0.00035	0.00076	1.29	1.8	7.7	1.6	3	20.2	0.024	<1	93.2	0.41	3.7	0.29	<0.0001	16	<0.36	Sept - Nov 2021	27-Sep-21	4-Nov-21
March - May 2022	SPL	132	0.42	0.0014	0.0018	1.29	0.14	7.8	2.5	20	20.3	0.017	<3	96	0.19	0.78	0.016	0.00015	17	<0.38	March - May 2022	24-Jun-22	29-Jun-22
June-Sept 2022	SPL	100	<0.014	0.000015	0.00093	1.29	3.8	7.8	1.5	5	20.2	0.065	<3	82.3	0.095	2.4	0.1	<0.0019	16	0.2	June - Sept 2022	27-Oct-22	3-Nov-22
Nov 2022 - Feb 2023	SPL	77	0.022	0.00025	0.0011	1.29	2.3	6.4	2.2	7	20.1	0.025	<3	87.5	0.16	18	0.096	<0.002	13	<0.74	Nov 2022 - Feb 2023	28-Feb-23	2-Mar-23
April-May 2023	SPL	60	0.034	0.00071	0.0013	1.29	<0.23	6.8	2	16	20.3	0.0026	<3	79.8	0.11	<0.28	0.046	<0.0019	14	0.25	April - May 2023	15-Jun-23	20-Jun-23
Nov 2023 - Feb 2024	SPL	138	<0.012	0.0053	0.0064	1.29	0.6	7.5	1.6	3	20.5	0.0045	<1	80.2	0.71	2.5	0.036	<0.000086	16	0.59	Nov 2023 - Feb 2024	21-Feb-24	22-Feb-24
May-24	SPL	42	<0.014	0.00078	0.0021	1.29	0.092	8.7	1.7	4	20.4	0.0033	<1	82	0.027	0.47	0.0094	<0.00029	18	<0.36	May-23	27-Jun-24	2-Jul-24
Nov-24	SPL	425	<0.013	0.0012	0.0047	1.29	0.1	7.1	1.5	12	20.2	0.0038	<3	83.3	0.19	0.56	0.012	<0.00019	15	0.19	Nov-24	24-Dec-24	7-Jan-25