



Evolution
MINING

Environmental Monitoring Data

December 2019

EPL No: 11912

Licensee: Evolution Mining (Cowal) Pty Limited

Address: PO Box 210 West Wyalong NSW 2671

<http://www.epa.nsw.gov.au/licensing-and-regulation/public-registers>



Dust

Frequency	Date Sampled (Date Out)	Date Obtained	Date Published	Particulates (g/m ³ /mth)	Comments
Monthly	02/01/2019	31/01/2019	20/03/2019	13.5	Water, dust, insects
Monthly	31/01/2019	04/03/2019	11/04/2019	8.2	
Monthly	04/03/2019	17/04/2019	20/05/2019	12.0	Water, insects
Monthly	02/04/2019	15/05/2019	19/06/2019	1.0	
Monthly	30/05/2019	16/07/2019	17/07/2019	0.5	
Monthly	28/06/2019	20/08/2019	20/09/2019	0.5	
Monthly	29/07/2019	20/09/2019	18/10/2019	1.0	
Monthly	29/08/2019	16/10/2019	18/10/2019	4.4	
Monthly	31/10/2019	18/12/2019	17/01/2019	9.9	
Monthly					
Monthly					
Monthly					
Number of Samples Collected				9	
Lowest Value				0.5	
Mean of Sample				5.7	
Highest Sample Value				13.5	
Median				4.4	



Surface Water

Monitoring Point: 12 <D1>

Stormwater quality monitoring, Northern waste emplacement contained water storage

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Comments
Monthly	09/01/2019	17/01/2019	20/02/2019	7.9	35202	413	
Monthly	06/02/2019	06/02/2019	20/03/2019	8.5	57725	128	
Monthly	12/03/2019	12/03/2019	11/04/2019	-	-	-	Dry
Monthly	01/04/2019	01/04/2019	20/05/2019	7.3	21540	39	
Monthly	07/05/2019	14/05/2019	19/06/2019	5.6	43680	18	
Monthly	18/06/2019	18/06/2019	17/07/2019	-	-	-	Dry
Monthly	02/07/2019	03/07/2019	20/08/2019	-	-	-	Dry
Monthly	03/08/2019	03/08/2019	20/09/2019	-	-	-	Dry
Monthly	03/09/2019	03/09/2019	18/10/2019	-	-	-	Dry
Monthly	15/10/2019	15/10/2019	19/11/2019	-	-	-	Dry
Monthly	15/11/2019	15/11/2019	20/12/2019	-	-	-	Dry
Monthly	11/12/2019	11/12/2019	17/01/2020	-	-	-	Dry
Number of Samples Collected				4	4	4	
Lowest Value				5.6	21540	18	
Mean of Sample				7.3	39537	150	
Highest Sample Value				8.5	57725	413	
Median				7.6	39441	84	

Monitoring Point: 13 <D4>

Stormwater quality monitoring, Southern waste emplacement contained water storage

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Comments
Monthly	09/01/2019	17/01/2019	20/02/2019	-	-	-	
Monthly	06/02/2019	06/02/2019	20/03/2019	-	-	-	Dry
Monthly	12/03/2019	12/03/2019	11/04/2019	-	-	-	Dry
Monthly	01/04/2019	01/04/2019	20/05/2019	7.3	308	287	
Monthly	07/05/2019	14/05/2019	19/06/2019	5.6	734	13700	Water level very low
Monthly	18/06/2019	18/06/2019	17/07/2019	-	-	-	Dry
Monthly	02/07/2019	03/07/2019	20/08/2019	-	-	-	Dry
Monthly	03/08/2019	03/08/2019	20/09/2019	-	-	-	Dry
Monthly	03/09/2019	03/09/2019	18/10/2019	-	-	-	Dry
Monthly	15/10/2019	15/10/2019	19/11/2019	-	-	-	Dry
Monthly	15/11/2019	15/11/2019	20/12/2019	-	-	-	Dry
Monthly	11/12/2019	11/12/2019	17/01/2020	8.7	1671	208	
Number of Samples Collected				3	3	3	
Lowest Value				5.6	308	208	
Mean of Sample				7.2	904	4732	
Highest Sample Value				8.7	1671	13700	
Median				7.3	734	287	



Lake Water



Monitoring Point: 14 -P1

Ambient water quality monitoring. Surface water point within M1535 on Lake Cowal

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Comments
Weekly	January, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	February, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	March, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	April, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	May, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	June, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	July, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	August, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	September, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	October, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	November, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	December, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Number of Samples Collected				0	0	0	
Lowest Value				0.0	0.0	0.0	
Mean of Samples				0.0	0.0	0.0	
Highest Sample Value				0.0	0.0	0.0	
Median				0.0	0.0	0.0	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	January, 2019	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Level below 204.5 AHD
Quarterly	April, 2019	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Level below 204.5 AHD
Quarterly	July, 2019	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Level below 204.5 AHD
Quarterly	October, 2019	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Level below 204.5 AHD

Monitoring Point: 15 -P2

Ambient water quality monitoring. Surface water point within M1535 on Lake Cowal

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	Comments
Monthly	January, 2019	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	February, 2019	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	March, 2019	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	April, 2019	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	May, 2019	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	June, 2019	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	July, 2019	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	August, 2019	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	September, 2019	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	October, 2019	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	November, 2019	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	December, 2019	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Number of Samples Collected				0	0	
Lowest Value				0.0	0.0	
Mean of Samples				0.0	0.0	
Highest Sample Value				0.0	0.0	
Median				0.0	0.0	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	January, 2019	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Level below 204.5 AHD
Quarterly	April, 2019	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Level below 204.5 AHD
Quarterly	July, 2019	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Level below 204.5 AHD
Quarterly	October, 2019	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Level below 204.5 AHD

Monitoring Point: 16 -P3

Ambient water quality monitoring. Surface water point within M1535 on Lake Cowal

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Comments
Weekly	January, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	February, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	March, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	April, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	May, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	June, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	July, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	August, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	September, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	October, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	November, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Weekly	December, 2019	-	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Number of Samples Collected				0	0	0	
Lowest Value				0.0	0.0	0.0	
Mean of Samples				0.0	0.0	0.0	
Highest Sample Value				0.0	0.0	0.0	
Median				0.0	0.0	0.0	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	January, 2019	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Level below 204.5 AHD
Quarterly	April, 2019	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Level below 204.5 AHD
Quarterly	July, 2019	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Level below 204.5 AHD
Quarterly	October, 2019	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Level below 204.5 AHD



Lake Water



Monitoring Point: 17 -B1

Ambient water quality monitoring. Surface water point within ML1535 on Lake Cowal

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	Comments
Monthly	January, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	February, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	March, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	April, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	May, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	June, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	July, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	August, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	September, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	October, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	November, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	December, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Number of Samples Collected				0	0	
Lowest Value				0.0	0.0	
Mean of Sample				0.0	0.0	
Highest Sample Value				0.0	0.0	
Median				0.0	0.0	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	January, 2018	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Level below 204.5 AHD
Quarterly	April, 2018	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Level below 204.5 AHD
Quarterly	July, 2018	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Level below 204.5 AHD
Quarterly	October, 2018	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Level below 204.5 AHD

Monitoring Point: 18 -B6

Ambient water quality monitoring. Surface water point on Lake Cowal to the south-east of ML1535 boundary

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	Comments
Monthly	January, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	February, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	March, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	April, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	May, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	June, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	July, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	August, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	September, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	October, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	November, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Monthly	December, 2018	-	-	-	-	Lake Level below 204.5 AHD, monitoring no longer required
Number of Samples Collected				0	0	
Lowest Value				0.0	0.0	
Mean of Sample				0.0	0.0	
Highest Sample Value				0.0	0.0	
Median				0.0	0.0	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	January, 2018	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Level below 204.5 AHD
Quarterly	April, 2018	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Level below 204.5 AHD
Quarterly	July, 2018	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Level below 204.5 AHD
Quarterly	October, 2018	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Level below 204.5 AHD



Groundwater

Monitoring Point: 19 «PSSA-R»
Groundwater quality monitoring, Piezometer located up gradient of southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	15/01/2019	15/01/2019	20/02/2019	6.72	31712	20.863	
Monthly	12/02/2019	12/02/2019	20/03/2019	6.82	31869	20.752	
Monthly	05/03/2019	05/03/2019	11/04/2019	6.74	30225	20.832	
Monthly	09/04/2019	09/04/2019	20/05/2019	6.75	31882	20.866	
Monthly	14/05/2019	14/05/2019	19/06/2019	6.76	30704	20.939	
Monthly	05/06/2019	05/06/2019	17/07/2019	6.83	29841	20.835	
Monthly	17/07/2019	17/07/2019	20/08/2019	6.76	30999	20.862	
Monthly	23/08/2019	23/08/2019	20/09/2019	6.74	30953	20.898	
Monthly	06/09/2019	06/09/2019	18/10/2019	6.78	41630	20.742	
Monthly	15/10/2019	15/10/2019	19/11/2019	6.82	32583	20.798	
Monthly	13/11/2019	13/11/2019	20/12/2019	6.8	30177	20.871	
Monthly	04/12/2019	04/12/2019	17/01/2020	6.74	31328	20.855	
Number of Samples Collected				12	12	12	
Lowest Value				6.7	29841	20.742	
Mean of Sample				6.8	31992	20.850	
Highest Sample Value				6.8	41630	20.939	
Median				6.8	31101	20.862	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	15/01/2019	24/01/2019	20/02/2019	713	<0.0005	0.0006	0.0005	208	9190	<0.001	<0.004	0.007	<0.0002	838	0.28	0.0038	0.0119	23	0.002	6340	2470	22600	4170	0.006	
Quarterly	09/04/2019	23/04/2019	20/05/2019	712	<0.0005	<0.0005	0.0005	302	10300	<0.001	<0.004	0.006	<0.0002	815	0.207	0.0028	0.0114	24	0.003	6190	2580	27000	4110	<0.005	
Quarterly	17/07/2019	31/07/2019	20/08/2019	748	0.0004	0.0007	0.0005	312	9040	0.0009	<0.004	0.003	<0.00010	859	0.213	0.0029	0.0116	24	0.003	6310	2540	22400	4120	0.005	
Quarterly	15/10/2019	23/10/2019	19/11/2019	843	<0.0005	0.0007	0.0007	290	10100	<0.001	<0.004	<0.005	<0.0002	820	0.252	0.0024	0.0108	25	0.003	6280	2340	22600	4100	0.006	

Monitoring Point: 21 «PSSA-R»
Groundwater quality monitoring, Piezometer located up gradient of northern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	15/01/2019	15/01/2019	20/02/2019	6.73	35102	19.107	
Monthly	12/02/2019	12/02/2019	20/03/2019	6.81	34850	19.048	
Monthly	05/03/2019	05/03/2019	11/04/2019	6.74	32195	19.118	
Monthly	09/04/2019	09/04/2019	20/05/2019	6.73	35373	19.128	
Monthly	14/05/2019	14/05/2019	19/06/2019	6.76	32721	19.158	
Monthly	05/06/2019	05/06/2019	17/07/2019	6.80	31204	19.143	
Monthly	17/07/2019	17/07/2019	20/08/2019	6.77	34136	19.117	
Monthly	23/08/2019	23/08/2019	20/09/2019	6.74	33559	19.104	
Monthly	16/09/2019	16/09/2019	18/10/2019	6.77	45592	19.068	
Monthly	15/10/2019	15/10/2019	19/11/2019	6.88	35619	19.032	
Monthly	13/11/2019	13/11/2019	20/12/2019	6.86	31616	19.011	
Monthly	04/12/2019	04/12/2019	17/01/2020	6.72	34702	18.995	
Number of Samples Collected				12	12	12	
Lowest Value				6.7	31204	18.995	
Mean of Sample				6.8	34746	19.087	
Highest Sample Value				6.9	45592	19.158	
Median				6.8	34938	19.096	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	15/01/2019	24/01/2019	20/02/2019	747	<0.0005	<0.0005	<0.0002	655	9970	0.003	<0.004	0.026	<0.0002	1760	0.0222	0.0261	0.205	335	0.006	12000	3100	21200	8880	<0.005	
Quarterly	09/04/2019	23/04/2019	20/05/2019	684	<0.0005	<0.0005	<0.0002	282	11100	0.026	<0.004	0.026	<0.0002	799	0.0264	0.0123	0.249	26	0.006	7170	3210	25800	3990	<0.005	
Quarterly	17/07/2019	31/07/2019	20/08/2019	703	<0.0005	<0.0005	<0.0002	297	9870	0.004	<0.004	0.024	<0.0002	848	0.0269	0.0163	0.255	28	0.008	7460	3160	24600	4130	<0.005	
Quarterly	15/10/2019	23/10/2019	19/11/2019	733	<0.0005	<0.0005	<0.0002	275	10800	<0.001	<0.004	0.027	<0.0002	828	0.0291	0.0151	0.180	28	0.006	7550	3100	24600	4100	<0.005	

Monitoring Point: 22 «P412A-R»
Groundwater quality monitoring, Piezometer located down gradient of southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	14/01/2019	14/01/2019	20/02/2019	6.54	45217	9.791	
Monthly	07/02/2019	07/02/2019	20/03/2019	6.65	43420	9.821	
Monthly	13/03/2019	13/03/2019	11/04/2019	6.44	45938	10.076	
Monthly	08/04/2019	08/04/2019	20/05/2019	6.61	45829	9.944	
Monthly	13/05/2019	13/05/2019	19/06/2019	6.56	43566	9.978	
Monthly	06/06/2019	06/06/2019	17/07/2019	6.67	44644	9.897	
Monthly	16/07/2019	16/07/2019	20/08/2019	6.54	44327	9.775	
Monthly	27/08/2019	27/08/2019	20/09/2019	6.5	44299	9.64	
Monthly	20/09/2019	20/09/2019	18/10/2019	6.61	46622	9.594	
Monthly	16/10/2019	16/10/2019	19/11/2019	6.58	45365	9.518	
Monthly	15/11/2019	15/11/2019	20/12/2019	6.47	46164	9.465	
Monthly	09/12/2019	09/12/2019	17/01/2020	6.58	45129	9.412	
Number of Samples Collected				12	12	12	
Lowest Value				6.4	43420	9.412	
Mean of Sample				6.6	45119	9.738	
Highest Sample Value				6.7	46622	10.076	
Median				6.6	45173	9.761	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	14/01/2019	24/01/2019	20/02/2019	492	<0.0005	<0.0005	0.002	799	13000	0.006	<0.004	0.209	<0.0002	1630	0.0498	0.0026	0.192	48	0.003	9700	3680	36400	8720	<0.005	
Quarterly	08/04/2019	13/04/2019	20/05/2019	470	<0.0005	<0.0005	0.0007	704	13900	<0.001	<0.004	0.005	<0.0002	1390	0.0270	0.0013	0.081	46	0.003	8340	3980	48300	7480	<0.005	
Quarterly	16/07/2019	31/07/2019	20/08/2019	450	<0.0005	0.0009	0.0012	755	12900	0.002	<0.004	0.052	<0.0002	1430	0.0285	0.0014	0.038	46	0.004	8620	3830	32900	7770	<0.005	
Quarterly	16/10/2019	23/10/2019	19/11/2019	547	<0.0005	0.0012	0.001	729	14700	<0.001	<0.004	0.069	<0.00020	1470	0.0269	0.0012	0.0309	48	0.004	8800	3860	35200	7870	<0.00500	

Monitoring Point: 23 «P412A»
Groundwater quality monitoring, Piezometer located down gradient of southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	14/01/2019	14/01/2019	20/02/2019	6.64	43768	10.89	
Monthly	07/02/2019	07/02/2019	20/03/2019	6.73	43462	10.864	
Monthly	13/03/2019	13/03/2019	11/04/2019	6.64	43098	10.814	
Monthly	08/04/2019	08/04/2019	20/05/2019	6.73	43797	10.772	
Monthly	13/05/2019	13/05/2019	19/06/2019	6.71	40178	10.862	
Monthly	06/06/2019	06/06/2019	17/07/2019	6.78	42919	10.861	
Monthly	16/07/2019	16/07/2019	20/08/2019	6.68	42361	10.715	
Monthly	27/08/2019	27/08/2019	20/09/2019	6.64	42319	10.725	
Monthly	20/09/2019	20/09/2019	18/10/2019	6.77	42055	10.841	
Monthly	16/10/2019	16/10/2019	19/11/2019	6.74	44471	10.517	
Monthly	15/11/2019	15/11/2019	20/12/2019	6.66	39470	10.532	
Monthly	09/12/2019	09/12/2019	17/01/2020	6.7	43524	10.571	
Number of Samples Collected				12	12	12	
Lowest Value				6.6	39470	10.517	
Mean of Sample				6.7	42764	10.731	
Highest Sample Value				6.8	44471	10.866	
Median				6.7	43229	10.769	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	14/01/2019	24/01/2019	20/02/2019	460	<0.0005	<0.0005	<0.0002	720	12800	0.001	<0.004	0.009	<0.0002	1560	0.01	0.0014	0.0485	65	0.004	8460	3360	34600	8220	<0.005	
Quarterly	08/04/2019	13/04/2019	20/05/2019	401	<0.0005	<0.0005	<0.0002	618	13700	<0.001	<0.004	0.005	<0.0002	1410	0.0036	0.0011	0.0022	67	0.004	7820	3940	39700	7540	<0.005	
Quarterly	16/07/2019	31/07/2019	20/08/2019	401	<0.0005	<0.0005	<0.0002	752	12400	0.001	<0.004	0.032	<0.0002	1510	0.0048	0.0009	0.0354	69	0.004	8280	3470	35000	8100	<0.005	
Quarterly	16/10/2019	23/10/2019	19/11/2019	475	<0.0005	0.0009	<0.00020	724	14200	<0.001	<0.004	0.050	<0.0002	1540	0.0097	0.001	0.0588	72	0.005	8440	3440	33800	8150	<0.005	



Groundwater

Monitoring Point: 24 #P144A
Groundwater quality monitoring. Piezometer located down gradient of southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	14/01/2019	14/01/2019	20/02/2019	6.68	41979	11.424	
Monthly	07/02/2019	07/02/2019	20/03/2019	6.75	41992	11.386	
Monthly	06/03/2019	06/03/2019	11/04/2019	6.67	41987	11.361	
Monthly	08/04/2019	08/04/2019	20/05/2019	6.73	42233	11.400	
Monthly	13/05/2019	13/05/2019	19/06/2019	6.76	35639	11.383	
Monthly	06/06/2019	06/06/2019	17/07/2019	6.80	40094	11.377	
Monthly	17/07/2019	17/07/2019	20/08/2019	6.75	40912	11.199	
Monthly	27/08/2019	27/08/2019	20/09/2019	6.69	40791	11.185	
Monthly	01/09/2019	01/09/2019	18/10/2019	-	-	-	Decommissioned
Monthly	16/10/2019	16/10/2019	19/11/2019	-	-	-	Decommissioned
Monthly	15/11/2019	15/11/2019	20/12/2019	-	-	-	Decommissioned
Monthly	09/12/2019	09/12/2019	17/01/2020	-	-	-	Decommissioned
Number of Samples Collected				8	8	8	
Lowest Value				6.7	35639	11.185	
Mean of Sample				6.7	40706	11.339	
Highest Sample Value				6.8	42233	11.424	
Median				6.7	41446	11.398	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	14/01/2019	24/01/2019	20/02/2019	538	<0.0005	<0.0005	<0.0002	498	12300	<0.001	<0.004	0.014	<0.0002	1410	0.0007	0.0016	0.0884	38	0.015	8130	3080	29200	7050	<0.005	
Quarterly	08/04/2019	17/04/2019	20/05/2019	530	<0.0005	<0.0005	<0.0002	498	14100	<0.001	<0.004	0.012	<0.0002	1290	0.0091	0.0012	0.0736	37	0.012	7750	3210	33900	6540	<0.005	
Quarterly	17/07/2019	31/07/2019	20/08/2019	500	<0.0005	<0.0005	<0.0002	514	14100	<0.001	<0.004	0.006	<0.0002	1390	0.0066	0.0008	0.0494	39	0.015	8240	3490	36100	7010	<0.005	
Quarterly	16/10/2019	23/10/2019	19/11/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Decommissioned

Monitoring Point: 25 #P148B
Groundwater quality monitoring. Piezometer located down gradient of southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	14/01/2019	14/01/2019	20/02/2019	6.74	42299	11.472	
Monthly	07/02/2019	07/02/2019	20/03/2019	6.74	42164	11.443	
Monthly	06/03/2019	06/03/2019	11/04/2019	6.69	42712	11.417	
Monthly	10/04/2019	10/04/2019	20/05/2019	6.74	42386	11.451	
Monthly	13/05/2019	13/05/2019	19/06/2019	6.76	41599	11.425	
Monthly	06/06/2019	06/06/2019	17/07/2019	6.87	42692	11.425	
Monthly	17/07/2019	17/07/2019	20/08/2019	6.76	40968	11.248	
Monthly	27/08/2019	27/08/2019	20/09/2019	6.80	40934	11.231	
Monthly	01/09/2019	01/09/2019	18/10/2019	-	-	-	Decommissioned
Monthly	16/10/2019	16/10/2019	19/11/2019	-	-	-	Decommissioned
Monthly	15/11/2019	15/11/2019	20/12/2019	-	-	-	Decommissioned
Monthly	09/12/2019	09/12/2019	17/01/2020	-	-	-	Decommissioned
Number of Samples Collected				8	8	8	
Lowest Value				6.7	40934	11.231	
Mean of Sample				6.8	41955	11.389	
Highest Sample Value				6.9	42712	11.472	
Median				6.7	42225	11.425	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	14/01/2019	24/01/2019	20/02/2019	444	<0.0005	<0.0005	<0.0002	406	12400	<0.001	<0.004	0.014	<0.0002	1430	0.0009	0.0002	0.0019	24	0.007	9190	3050	31500	6900	0.011	
Quarterly	10/04/2019	23/04/2019	20/05/2019	422	<0.0005	<0.0005	<0.0002	405	14300	0.004	<0.004	0.011	<0.0002	1280	0.0011	0.0001	0.0014	25	0.008	8230	3230	43600	6280	0.015	
Quarterly	17/07/2019	31/07/2019	20/08/2019	401	<0.0005	<0.0005	<0.0002	402	11400	0.002	<0.004	0.020	<0.0002	1280	0.0006	0.0001	0.0010	23	0.010	8160	3160	31800	6270	0.015	Decommissioned
Quarterly	16/10/2019	16/10/2019	19/11/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Decommissioned

Monitoring Point: 26 #PP03
Groundwater quality monitoring. Piezometer located near the processing plant area

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	03/01/2019	03/01/2019	20/02/2019	6.99	7859	16.236	
Monthly	04/02/2019	04/02/2019	20/03/2019	6.85	7956	16.463	
Monthly	04/03/2018	04/03/2018	11/04/2019	6.97	7945	16.823	
Monthly	02/04/2019	02/04/2019	20/05/2019	6.9	7727	16.951	
Monthly	07/05/2019	07/05/2019	19/06/2019	6.84	7917	17.017	
Monthly	07/06/2019	07/06/2019	17/07/2019	7.02	8038	17.185	
Monthly	05/07/2019	05/07/2019	20/08/2019	6.80	7831	17.175	Potential data transcription error (SWL)
Monthly	28/08/2019	28/08/2019	20/09/2019	7.08	7833	17.325	
Monthly	12/09/2019	12/09/2019	18/10/2019	7.08	9429	17.346	
Monthly	24/09/2019	24/09/2019	19/11/2019	7.07	7739	17.423	
Monthly	05/11/2019	05/11/2019	20/12/2019	6.94	10102	17.513	
Monthly	16/12/2019	16/12/2019	17/01/2020	7.09	7739	17.631	
Number of Samples Collected				18	18	18	
Lowest Value				6.8	7831	17.175	
Mean of Sample				7.0	8150	16.874	
Highest Sample Value				7.1	10102	17.631	
Median				7.0	7862	17.301	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	03/01/2019	10/02/2019	20/02/2019	153	<0.0005	0.0009	<0.0002	239	2130	0.005	<0.004	0.009	<0.0002	170	<0.0005	0.0076	0.0012	15	0.002	1140	686	4160	1300	0.01	
Quarterly	02/04/2019	11/04/2019	20/05/2019	143	<0.0005	0.0010	<0.0002	225	1910	0.006	<0.004	<0.005	<0.0002	152	0.0009	0.0072	0.0014	13	0.002	1050	737	5060	1390	0.013	
Quarterly	05/07/2019	16/07/2019	20/08/2019	147	0.0006	0.0011	0.0002	240	1860	0.005	<0.004	<0.002	0.0001	382	0.0006	0.0078	0.0013	18	0.002	1250	586	5130	1350	0.011	
Quarterly	24/10/2019	31/10/2019	19/11/2019	162		0.0008	0.00019	214	2270	0.0048	<0.004	0.002	0.0001	174	<0.0005	0.006	0.0013	15	0.003	1130	700	5100	1300	0.014	

Monitoring Point: 27 #PP04
Groundwater quality monitoring. Piezometer located near the processing plant area

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	03/01/2019	03/01/2019	20/02/2019	6.7	48163	14.751	
Monthly	04/02/2019	04/02/2019	20/03/2019	6.6	48540	14.873	
Monthly	04/03/2018	04/03/2018	11/04/2019	6.55	45343	15.030	
Monthly	02/04/2019	02/04/2019	20/05/2019	6.56	48426	15.200	
Monthly	07/05/2019	07/05/2019	19/06/2019	6.55	46639	15.26	
Monthly	07/06/2019	07/06/2019	17/07/2019	6.71	46993	15.459	
Monthly	05/07/2019	05/07/2019	20/08/2019	6.64	45970	15.514	
Monthly	28/08/2019	28/08/2019	20/09/2019	6.56	47291	15.620	
Monthly	12/09/2019	12/09/2019	18/10/2019	6.57	63069	15.629	
Monthly	24/09/2019	24/09/2019	19/11/2019	6.63	48382	15.738	
Monthly	05/11/2019	05/11/2019	20/12/2019	6.55	48832	15.803	
Monthly	16/12/2019	16/12/2019	17/01/2020	6.71	46097	15.876	
Number of Samples Collected				18	18	18	
Lowest Value				6.6	45343	15.030	
Mean of Sample				6.6	48637	15.396	
Highest Sample Value				6.8	63069	15.876	
Median				6.6	47726	15.496	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	03/01/2019	10/02/2019	20/02/2019	463	<0.0005	0.0005	<0.0002	726	17300	<0.001	<0.004	0.022	0.0009	1530	0.0031	0.0001	0.0105	43	0.011	8980	3640	28700	8110	0.007	
Quarterly	02/04/2019	11/04/2019	20/05/2019	424	<0.0005	0.0008	<0.0002	721	15900	<0.001	<0.004	0.026	<0.0001	1450	0.0030	0.0013	0.0101	43	0.010	8650	3650	35700	7770	0.006	
Quarterly	05/07/2019	16/07/2019	20/08/2019	430	<0.0005	<0.0005	<0.0002	711	15300	<0.001	<0.004	0.014	<0.0002	1460	0.0033	0.0015	0.0104	43	0.009	8960	3560	38100	7790	<0.005	
Quarterly	24/10/2019	31/10/2019	19/11/2019	496	<0.0005	<0.0005	<0.0002	694	16400	<0.001	<0.004	0.024	<0.0002	1480	0.0014	0.0006	0.0047	42	0.009	8610	3900	39900	7830	<0.005	



Groundwater

Monitoring Point: 30 <P4117A>
Groundwater quality monitoring, Piezometer located down gradient of southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments	
Monthly	15/01/2018	15/01/2018	20/02/2019	6.9	43547	12.278		
Monthly	07/02/2019	07/02/2019	20/03/2019	6.3	45495	12.268		
Monthly	04/03/2019	04/03/2019	11/04/2019	6.54	44655	12.278		
Monthly	09/04/2019	09/04/2019	20/05/2019	6.56	46021	12.248		
Monthly	08/05/2019	08/05/2019	19/06/2019	6.46	45534	12.218		
Monthly	06/06/2019	06/06/2019	17/07/2019	6.68	45642	12.277		
Monthly	18/07/2019	18/07/2019	20/08/2019	6.60	44449	12.187		
Monthly	28/08/2019	28/08/2019	20/09/2019	6.57	44591	12.195		
Monthly	30/09/2019	20/09/2019	18/10/2019	6.63	46662	12.190		
Monthly	16/10/2019	16/10/2019	19/11/2019	6.53	46128	12.136		
Monthly	13/11/2019	13/11/2019	20/12/2019	6.62	42134	12.183		
Monthly	06/12/2019	06/12/2019	17/01/2020	6.60	45130	12.155		
Number of Samples Collected							12	12
Lowest Value							6.5	42134
Mean of Sample							6.6	45240
Highest Sample Value							6.7	46718
Median							6.6	45055

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	15/01/2018	24/01/2018	20/02/2019	478	<0.0005	<0.0005	0.0011	637	13600	0.002	<0.004	0.008	<0.0002	1580	0.054	0.002	0.0127	32	0.005	8900	3070	27100	8100	<0.005	
Quarterly	09/04/2019	23/04/2019	20/05/2019	439	<0.0005	<0.0005	0.0006	688	15400	0.001	<0.004	0.007	<0.0002	1550	0.0544	0.0006	0.0052	34	0.006	8740	3290	35600	8100	<0.005	
Quarterly	18/07/2019	31/07/2019	20/08/2019	393	<0.0005	<0.0005	0.0008	625	13100	0.002	<0.004	0.007	<0.0002	1570	0.0376	0.0011	0.0053	33	0.006	8760	4210	27600	8000	<0.005	
Quarterly	16/10/2019	23/10/2019	19/11/2019	509	<0.0005	0.0008	0.0007	634	15200	<0.001	<0.004	0.008	0.0003	1530	0.0489	0.001	0.0046	34	0.009	8680	3130	25700	7880	0.011	

Monitoring Point: 31 <P4117B>

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments	
Monthly	15/01/2018	15/01/2018	20/02/2019	6.69	42193.43	12.233		
Monthly	07/02/2019	07/02/2019	20/03/2019	6.72	42260.81	12.244		
Monthly	04/03/2019	04/03/2019	11/04/2019	6.62	42742.43	12.25		
Monthly	09/04/2019	09/04/2019	20/05/2019	6.67	42285	12.205		
Monthly	08/05/2019	08/05/2019	19/06/2019	6.65	39634	12.176		
Monthly	06/06/2019	06/06/2019	17/07/2019	6.79	42193	12.244		
Monthly	18/07/2019	18/07/2019	20/08/2019	6.70	40908	12.159		
Monthly	28/08/2019	28/08/2019	20/09/2019	6.69	41015	12.165		
Monthly	20/09/2019	20/09/2019	18/10/2019	6.91	43046	12.15		
Monthly	16/10/2019	16/10/2019	19/11/2019	6.75	43152	12.099		
Monthly	13/11/2019	13/11/2019	20/12/2019	6.73	40182	12.135		
Monthly	06/12/2019	06/12/2019	17/01/2020	6.81	41094	12.25		
Number of Samples Collected							12	12
Lowest Value							6.6	39634
Mean of Sample							6.7	41561
Highest Sample Value							6.9	43152
Median							6.7	41644

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	15/01/2018	24/01/2018	20/02/2019	333	<0.0005	<0.0005	<0.0003	546	13800	0.001	<0.004	0.006	<0.0002	1410	<0.0005	0.0004	0.003	20	0.030	6360	2640	21600	7210	0.033	
Quarterly	09/04/2019	23/04/2019	20/05/2019	223	<0.0005	<0.0005	0.0003	559	14300	<0.001	<0.004	0.006	<0.0002	1330	0.0008	0.0002	0.0014	21	0.008	7920	2760	30300	6870	0.014	
Quarterly	18/07/2019	31/07/2019	20/08/2019	223	<0.0005	<0.0005	<0.0002	505	12000	0.002	<0.004	0.006	<0.0002	1390	0.0014	<0.0001	0.0008	21	0.030	7970	3470	26900	6980	0.012	
Quarterly	16/10/2019	23/10/2019	19/11/2019	259	<0.0005	0.0006	<0.0002	538	13900	<0.001	<0.004	0.005	<0.0002	1390	0.0011	0.0003	0.0007	21	0.031	8070	2650	32300	7040	0.007	

Monitoring Point: 32 <P4118A>
Groundwater quality monitoring, Piezometer located down gradient of northern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments	
Monthly	15/01/2018	15/01/2018	20/02/2019	6.51	47788	9.610		
Monthly	11/02/2019	11/02/2019	20/03/2019	6.62	47568	9.571		
Monthly	05/03/2018	05/03/2018	11/04/2019	6.54	45908	9.595		
Monthly	09/04/2019	09/04/2019	20/05/2019	6.59	47776	9.540		
Monthly	08/05/2019	08/05/2019	19/06/2019	6.58	45739	9.494		
Monthly	06/06/2019	06/06/2019	17/07/2019	6.56	46817	9.551		
Monthly	17/07/2019	17/07/2019	20/08/2019	6.59	46293	9.525		
Monthly	22/08/2019	22/08/2019	20/09/2019	6.55	46418	9.428		
Monthly	20/09/2019	20/09/2019	18/10/2019	6.56	43376	9.342		
Monthly	15/10/2019	15/10/2019	19/11/2019	6.76	48533	9.392		
Monthly	07/11/2019	07/11/2019	20/12/2019	6.61	48123	9.411		
Monthly	16/12/2019	16/12/2019	17/01/2020	6.62	47159	9.431		
Number of Samples Collected							12	12
Lowest Value							6.5	43376
Mean of Sample							6.6	48393
Highest Sample Value							6.8	52376
Median							6.6	47364

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	15/01/2018	24/01/2018	20/02/2019	584	<0.0005	<0.0005	<0.0002	480	13800	0.001	<0.004	0.006	<0.0002	1420	0.0274	0.0009	0.0022	20	0.003	9930	4350	30600	7050	<0.005	
Quarterly	09/04/2019	23/04/2019	20/05/2019	525	<0.0005	<0.0005	<0.0002	458	14200	<0.001	<0.004	<0.005	<0.0002	1310	0.0172	0.0007	0.0043	22	0.005	9270	5040	42800	6540	<0.005	
Quarterly	17/07/2019	31/07/2019	20/08/2019	520	<0.0005	<0.0005	<0.0002	509	13300	0.002	<0.004	0.008	<0.0002	1390	0.0396	0.0003	0.0026	22	0.005	9740	4410	37000	6990	<0.005	
Quarterly	15/10/2019	23/10/2019	19/11/2019	602	<0.0005	0.0008	<0.0002	488	14800	<0.001	<0.004	<0.005	<0.0002	1450	0.0282	0.0006	0.0027	23	0.004	10000	4600	36000	7190	<0.005	

Monitoring Point: 33 <P4118B>
Groundwater quality monitoring, Piezometer located down gradient of northern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments	
Monthly	15/01/2018	15/01/2018	20/02/2019	6.45	43736	9.589		
Monthly	11/02/2019	11/02/2019	20/03/2019	6.54	43836	9.541		
Monthly	05/03/2018	05/03/2018	11/04/2019	6.51	42449	9.558		
Monthly	09/04/2019	09/04/2019	20/05/2019	6.53	43425	9.504		
Monthly	08/05/2019	08/05/2019	19/06/2019	6.53	40996	9.470		
Monthly	06/06/2019	06/06/2019	17/07/2019	6.54	42985	9.554		
Monthly	17/07/2019	17/07/2019	20/08/2019	6.53	41643	9.419		
Monthly	22/08/2019	22/08/2019	20/09/2019	6.51	41826	9.413		
Monthly	20/09/2019	20/09/2019	18/10/2019	6.61	54749	9.307		
Monthly	15/10/2019	15/10/2019	19/11/2019	6.57	43954	9.365		
Monthly	07/11/2019	07/11/2019	20/12/2019	6.60	44014	9.389		
Monthly	16/12/2019	16/12/2019	17/01/2020	6.56	42896	9.401		
Number of Samples Collected							12	12
Lowest Value							6.0	40996
Mean of Sample							6.5	43709
Highest Sample Value							6.6	54749
Median							6.5	43205

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	15/01/2018	24/01/2018	20/02/2019	579	<0.0005	<0.0005	<0.0002	300	12400	0.005	<0.004	0.008	<0.0002	1140	0.0214	0.0054	0.0270	10	0.002	9020	3950	26000	5440	<0.005	
Quarterly	09/04/2019	23/04/2019	20/05/2019	496	<0.0005	<0.0005	<0.0002	284	13000	0.008	<0.004	<0.005	<0.0002	1070	0.0416	0.005	0.0340	10	0.003	8520	3200	32500	5120	<0.005	
Quarterly	17/07/2019	31/07/2019	20/08/2019	489	<0.0005	<0.0005	<0.0002	303	11800	0.010	<0.004	0.008	<0.0002	1110	0.0078	0.0021	0.0123	9	0.003	8970	3840	31400	5130	0.008	
Quarterly	15/10/2019	23/10/2019	19/11/2019	594	<0.0005	0.0005	<0.0002	291	13200	0.010	<0.004	0.010	<0.0002	1130	0.0142	0.0026	0.0000	10	0.003	9130	3980	31400	5380	0.006	



Groundwater

Monitoring Point: 34 <TSR6A>
Groundwater quality monitoring, Piezometer located down gradient of northern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	15/01/2018	15/01/2018	20/02/2019	6.62	49392	11.501	
Monthly	11/02/2019	11/02/2019	20/03/2019	6.7	49206	11.583	
Monthly	13/03/2019	13/03/2019	11/04/2019	6.64	50159	11.505	
Monthly	09/04/2019	09/04/2019	20/05/2019	6.67	49503	11.594	
Monthly	13/05/2019	13/05/2019	19/06/2019	6.71	47340	11.013	
Monthly	14/06/2019	14/06/2019	17/07/2019	6.72	48345	11.085	
Monthly	18/07/2019	18/07/2019	20/08/2019	6.64	47622	11.878	
Monthly	27/08/2019	27/08/2019	20/09/2019	6.63	48101	11.350	
Monthly	20/09/2019	20/09/2019	18/10/2019	6.77	50310	11.835	
Monthly	15/10/2019	15/10/2019	19/11/2019	6.7	50443	12.843	
Monthly	24/10/2019	24/10/2019	19/11/2019	6.67	50314	10.908	
Monthly	18/11/2019	18/11/2019	20/12/2019	6.66	49248	10.758	
Monthly	09/12/2019	09/12/2019	17/01/2020	6.65	48764	10.755	
Number of Samples Collected				11	11	11	
Lowest Value				6.6	47300	10.755	
Mean of Sample				6.7	50187	11.811	
Highest Sample Value				6.8	49348	12.843	
Median				6.7	49392	11.501	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	15/01/2018	24/01/2018	20/02/2019	538	<0.0005	0.0010	<0.0002	597	14400	<0.001	<0.004	0.049	<0.0002	1510	2.5	0.0047	0.0246	21	<0.002	9600	4120	37600	7730	0.007	
Quarterly	09/04/2019	18/04/2019	20/05/2019	477	<0.0005	0.0003	<0.0002	653	16400	<0.001	<0.004	0.047	<0.0002	1530	1.96	0.0035	0.0217	22	0.002	9520	4420	41200	7960	0.008	
Quarterly	18/07/2019	31/07/2019	20/08/2019	424	<0.0005	0.0008	0.0017	628	13000	<0.001	<0.004	0.016	<0.0002	1540	1.37	0.0070	0.0563	24	0.003	9840	4690	31100	7910	0.064	
Quarterly	15/10/2019	23/10/2019	19/11/2019	558	<0.0005	0.0017	0.0010	622	16100	<0.001	<0.004	0.031	<0.0002	1550	2.07	0.0061	0.0719	24	0.002	9910	4450	37700	7940	0.013	
Quarterly	24/10/2019	31/10/2019	19/11/2019	540	<0.0005	0.0007	0.0018	585	15900	<0.001	<0.004	0.027	<0.0002	1470	1.65	0.0049	0.0434	22	0.003	9320	4450	38200	7510	0.029	

Monitoring Point: 35 <PDB1A>
Groundwater quality monitoring, Pit dewatering bore

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	07/01/2019	07/01/2019	20/02/2019	6.53	53766	16.626	
Monthly	05/02/2019	05/02/2019	20/03/2019	6.40	52409	16.674	
Monthly	06/03/2019	05/03/2019	11/04/2019	6.41	51889	16.736	
Monthly	02/04/2019	02/04/2019	20/05/2019	6.44	53689	16.803	
Monthly	08/05/2019	08/05/2019	19/06/2019	6.44	52717	16.906	
Monthly	04/06/2019	04/06/2019	17/07/2019	6.54	50146	16.993	
Monthly	10/07/2019	10/07/2019	20/08/2019	6.41	48112	17.089	
Monthly	22/08/2019	22/08/2019	20/09/2019	6.40	52431	17.270	
Monthly	06/09/2019	06/09/2019	18/10/2019	6.42	70476	17.284	
Monthly	08/10/2019	08/10/2019	19/11/2019	6.45	54784	17.426	
Monthly	07/11/2019	07/11/2019	20/12/2019	6.43	54448	17.525	
Monthly	06/12/2019	06/12/2019	17/01/2020	6.44	52995	17.632	
Number of Samples Collected				12	12	12	
Lowest Value				6.4	48112	16.806	
Mean of Sample				6.4	54021	17.081	
Highest Sample Value				6.5	70476	17.632	
Median				6.4	52896	17.086	

Frequency	Date Sampled	Date Obtained	Date Published	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	07/01/2019	16/01/2019	20/02/2019	<0.00050	<0.00050	0.0067	1010	20800	<0.00100	0.013	0.0003	1810	2.83	0.0008	0.0072	26	0.002	10400	4410	50700	9980	<0.005	
Quarterly	02/04/2019	11/04/2019	20/05/2019	<0.00005	0.0012	0.0044	920	18100	<0.001	0.016	<0.0002	1730	2.88	0.0011	0.0068	29	0.003	9780	4940	43800	9430	<0.005	
Quarterly	10/07/2019	22/07/2019	20/08/2019	<0.00005	0.0007	0.0014	818	16000	<0.001	0.017	<0.0002	1600	5.58	0.0006	0.0514	31	<0.002	10350	3870	38700	8930	<0.005	
Quarterly	08/10/2019	17/10/2019	19/11/2019	<0.0005	0.001	0.0038	906	18100	<0.001	0.007	<0.0002	1740	3.16	0.0007	0.0017	28	0.003	10000	4320	42300	9430	<0.005	

Monitoring Point: 38 <PDB3A>
Groundwater quality monitoring, Pit dewatering bore

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	07/01/2019	07/01/2019	20/02/2019	6.81	54099.71	81.520	
Monthly	05/02/2019	05/02/2019	20/03/2019	6.69	54127.65	81.334	
Monthly	05/03/2019	05/03/2019	11/04/2019	6.62	54868	81.733	
Monthly	02/04/2019	02/04/2019	20/05/2019	6.63	54241	82.105	
Monthly	08/05/2019	08/05/2019	19/06/2019	6.67	54410	82.124	
Monthly	04/06/2019	04/06/2019	17/07/2019	6.81	53458	81.996	
Monthly	10/07/2019	10/07/2019	20/08/2019	6.73	52610	81.695	
Monthly	22/08/2019	22/08/2019	20/09/2019	6.13	52589	81.846	
Monthly	02/09/2019	02/09/2019	18/10/2019	6.64	70757	81.667	
Monthly	08/10/2019	08/10/2019	19/11/2019	6.65	51720	81.911	
Monthly	07/11/2019	07/11/2019	20/12/2019	6.67	70287	81.474	
Monthly	06/12/2019	06/12/2019	17/01/2020	6.73	52840	81.538	
Number of Samples Collected				12	12	12	
Lowest Value				6.1	51720	81.334	
Mean of Sample				6.6	56127	81.745	
Highest Sample Value				6.8	70757	82.124	
Median				6.7	54609	81.713	

Frequency	Date Sampled	Date Obtained	Date Published	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	07/01/2019	16/01/2019	20/02/2019	<0.00050	0.0014	0.0059	1200	22000	0.005	0.024	<0.00020	1900	0.89	0.0074	0.0138	34	0.003	9790	3860	50600	10800	0.151	
Quarterly	02/04/2019	11/04/2019	20/05/2019	0.0006	0.0021	0.006	1250	18100	0.004	0.013	<0.0002	1940	0.87	0.0075	0.0138	39	0.004	9960	3990	42300	11200	0.137	
Quarterly	10/07/2019	22/07/2019	20/08/2019	0.0046	0.0019	0.0075	1340	19100	0.006	<0.005	<0.0002	1950	0.95	0.0084	0.0163	36	0.004	9990	3850	40200	11100	0.203	
Quarterly	08/10/2019	17/10/2019	19/11/2019	0.0044	0.0025	0.0058	1120	19200	0.005	0.014	<0.0002	1860	0.76	0.0075	0.0142	34	0.004	9500	3850	39500	10400	0.154	

Monitoring Point: 40 <PDB5A>
Groundwater quality monitoring, Pit dewatering bore

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	07/01/2019	07/01/2019	20/02/2019	6.45	52806	32.116	
Monthly	05/02/2019	05/02/2019	20/03/2019	6.19	52127	32.302	
Monthly	04/03/2019	04/03/2019	11/04/2019	6.36	52707	32.480	
Monthly	02/04/2019	02/04/2019	20/05/2019	6.34	53023	32.672	
Monthly	08/05/2019	08/05/2019	19/06/2019	6.38	50647	32.913	
Monthly	04/06/2019	04/06/2019	17/07/2019	6.43	44116	33.136	
Monthly	10/07/2019	10/07/2019	20/08/2019	6.32	51453	33.419	
Monthly	22/08/2019	22/08/2019	20/09/2019	6.34	51727	33.783	
Monthly	02/09/2019	02/09/2019	18/10/2019	6.35	69320	33.826	
Monthly	08/10/2019	08/10/2019	19/11/2019	6.38	53346	34.091	
Monthly	07/11/2019	07/11/2019	20/12/2019	6.26	53092	34.306	
Monthly	06/12/2019	06/12/2019	17/01/2020	6.38	52817	34.515	
Number of Samples Collected				12	12	12	
Lowest Value				6.1	44116	32.116	
Mean of Sample				6.4	53048	33.297	
Highest Sample Value				6.5	69320	34.515	
Median				6.4	52662	33.277	

Frequency	Date Sampled	Date Obtained	Date Published	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	07/01/2019	16/01/2019	20/02/2019	<0.0005	0.0057	0.0044	786	21200	<0.00100	0.006	<0.00020	1940	0.0224	0.0007	0.0102	38	0.003	9770	3500	49600	9950	0.040	
Quarterly	02/04/2019	11/04/2019	20/05/2019	<0.0005	0.0041	0.0041	758	18700	<0.001	0.016	<0.0002	1840	0.0212	0.0005	0.0112	41	0.003	9310	2980	41500	9470	0.038	
Quarterly	10/07/2019	22/07/2019	20/08/2019	<0.0005	0.0060	0.0051	774	19000	0.001	0.010	<0.0002	2060	0.0217	0.0006	0.0119	44	0.002	10900	3440	41300	10400	0.040	
Quarterly	08/10/2019	17/10/2019	19/11/2019	<0.0005	0.0075	0.0044	765	18900	<0.001	0.005	<0.0002	1930	0.0196	0.0004	0.0108	39	0.004	9760	3520	50000	9860	0.039	



Groundwater

Monitoring Point: 44 <MOND14>
Groundwater quality monitoring, Groundwater monitoring bore located to the east of the northern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	22/01/2019	07/01/2019	20/02/2019	6.52	47602	9.97	
Monthly	11/02/2019	05/02/2019	20/03/2019	6.57	47682	10.023	
Monthly	13/03/2019	04/03/2019	11/04/2019	6.51	48272	10.027	
Monthly	09/04/2019	02/04/2019	20/05/2019	6.53	47833	10.028	
Monthly	13/05/2019	08/05/2019	19/06/2019	6.52	48018	10.075	
Monthly	14/06/2019	04/06/2019	17/07/2019	6.59	47187	10.068	
Monthly	17/07/2019	10/07/2019	20/08/2019	6.57	46306	10.046	
Monthly	27/08/2019	22/08/2019	20/09/2019	6.55	46353	10.090	
Monthly	16/09/2019	02/09/2019	18/10/2019	6.50	61835	10.098	
Monthly	15/10/2019	08/10/2019	19/11/2019	6.46	48520	9.959	
Monthly	15/11/2019	07/11/2019	20/12/2019	6.57	45411	9.974	
Monthly	09/12/2019	05/12/2019	17/01/2020	6.55	47717	10.25	
Number of Samples Collected							12
Lowest Value							6.5
Mean of Sample							6.5
Highest Sample Value							6.6
Median							6.5

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	22/01/2019	01/02/2019	20/02/2019	356	<0.0005	<0.0005	0.0009	493	15800	<0.001	<0.0016	0.040	<0.0002	1360	0.484	0.0009	0.0861	25	<0.002	9120	4200	34200	6830	<0.005	
Quarterly	09/04/2019	18/04/2019	20/05/2019	293	<0.0005	<0.0005	0.0010	493	14300	<0.001	<0.0014	0.006	<0.0002	1330	0.438	0.0009	0.0753	24	<0.002	9240	5140	35100	6980	<0.005	
Quarterly	17/07/2019	31/07/2019	20/08/2019	290	<0.0005	<0.0005	0.0006	520	13400	<0.001	<0.0014	0.008	<0.0002	1400	0.405	0.0011	0.0929	24	<0.002	9560	4440	34700	7060	<0.005	
Quarterly	15/10/2019	31/10/2019	19/11/2019	343	<0.00050	0.0009	0.0012	501	15200	<0.00100	<0.0014	0.022	<0.0002	1440	0.487	0.0012	0.0839	25	0.002	9870	4330	34800	7180	<0.005	

Monitoring Point: 45 <MOND24>
Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	14/01/2019	14/01/2019	20/02/2019	6.69	41165	8.768	
Monthly	07/02/2019	07/02/2019	20/03/2019	6.75	40648	8.539	
Monthly	06/03/2019	06/03/2019	11/04/2019	6.69	40941	8.511	
Monthly	10/04/2019	10/04/2019	20/05/2019	6.71	41438	8.284	
Monthly	08/05/2019	08/05/2019	19/06/2019	6.76	37664	8.34	
Monthly	04/06/2019	04/06/2019	17/07/2019	6.72	40865	8.315	
Monthly	17/07/2019	17/07/2019	20/08/2019	6.71	40263	8.091	
Monthly	22/08/2019	22/08/2019	20/09/2019	6.76	40104	8.050	
Monthly	16/09/2019	16/09/2019	18/10/2019	6.72	43911	7.923	
Monthly	16/10/2019	16/10/2019	19/11/2019	6.76	42093	7.891	
Monthly	25/11/2019	25/11/2019	20/12/2019	6.77	52396	7.911	
Monthly	06/12/2019	06/12/2019	17/01/2020	6.74	40448	8.295	
Number of Samples Collected							12
Lowest Value							6.7
Mean of Sample							6.7
Highest Sample Value							6.8
Median							6.7

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	14/01/2019	24/01/2019	20/02/2019	664	<0.0005	<0.0005	0.0003	462	11900	0.002	<0.004	0.011	<0.0002	1200	0.0147	0.0017	0.0810	42	0.01	8070	3140	29800	6100	0.005	
Quarterly	10/04/2019	18/04/2019	20/05/2019	626	<0.0005	<0.0005	<0.0002	474	13500	0.002	<0.009	<0.0002	<0.0002	1160	0.0169	0.001	0.0844	43	0.009	7950	3540	32400	5960	<0.005	
Quarterly	17/07/2019	31/07/2019	20/08/2019	594	<0.0005	<0.0005	0.0002	499	11600	0.002	<0.004	0.006	<0.0002	1220	0.0239	0.0009	0.1030	47	0.012	8230	3200	29700	6270	<0.005	
Quarterly	16/10/2019	31/10/2019	19/11/2019	724	<0.0005	0.0011	<0.0002	466	13100	<0.001	<0.004	0.016	<0.0002	1220	0.0251	0.0020	0.1660	46	0.012	8240	3060	29400	6190	<0.005	

Monitoring Point: 50 <TSFNB>
Groundwater quality monitoring, Piezometer located down gradient of northern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	15/01/2018	15/01/2018	20/02/2019	6.39	46700	12.128	
Monthly	11/02/2019	11/02/2019	20/03/2019	6.49	46113	12.095	
Monthly	13/03/2019	13/03/2019	11/04/2019	6.39	45628	12.113	
Monthly	02/04/2019	02/04/2019	20/05/2019	6.41	46650	12.192	
Monthly	13/05/2019	13/05/2019	19/06/2019	6.49	40695	12.093	
Monthly	04/06/2019	04/06/2019	17/07/2019	6.48	45396	12.011	
Monthly	18/07/2019	18/07/2019	20/08/2019	6.32	44693	11.928	
Monthly	22/08/2019	22/08/2019	20/09/2019	6.25	45137	11.947	
Monthly	20/09/2019	20/09/2019	18/10/2019	6.43	46047	12.045	
Monthly	15/10/2019	15/10/2019	19/11/2019	6.23	50028	12.107	
Monthly	24/10/2019	24/10/2019	19/11/2019	6.23	47297	11.875	
Monthly	18/11/2019	18/11/2019	20/12/2019	6.45	54077	12.339	
Monthly	06/12/2019	06/12/2019	17/01/2020	6.46	45793	11.810	
Number of Samples Collected							13
Lowest Value							6.2
Mean of Sample							6.4
Highest Sample Value							6.5
Median							6.4

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	15/01/2018	24/01/2018	20/02/2019	232	<0.0005	<0.0005	0.0004	484	13800	0.073	<0.004	0.027	<0.0002	1590	0.368	0.14	2.130	47	0.005	10000	3950	35900	7760	<0.005	
Quarterly	02/04/2019	18/04/2019	20/05/2019	231	<0.0005	<0.0005	0.0003	491	15700	0.051	<0.004	0.028	<0.0002	1420	0.218	0.1070	1.270	48	0.005	9190	4200	41300	7070	<0.005	
Quarterly	18/07/2019	31/07/2019	20/08/2019	185	<0.0005	<0.0005	0.0003	450	12900	0.144	<0.004	2.480	<0.0002	1530	0.493	0.12	2.820	46	0.005	9540	4710	33000	7420	<0.005	
Quarterly	15/10/2019	31/10/2019	19/11/2019	225	<0.0005	0.0008	0.0002	460	15000	0.022	<0.004	0.030	<0.0002	1460	0.598	0.133	3.210	50	0.006	9540	4340	34100	7160	<0.005	
Quarterly	24/10/2019	31/10/2019	19/11/2019	250	<0.0005	<0.0005	0.0003	432	15500	0.016	<0.004	0.280	<0.0002	1410	0.0962	0.0430	0.610	45	0.005	8930	4560	70600	6880	<0.005	

Monitoring Point: 51 <TSFNC>
Groundwater quality monitoring, Piezometer located down gradient of northern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	15/01/2018	15/01/2018	20/02/2019	5.99	50405	12.446	
Monthly	11/02/2019	11/02/2019	20/03/2019	6.09	49648	12.374	
Monthly	13/03/2019	13/03/2019	11/04/2019	6.01	51693	12.423	
Monthly	02/04/2019	02/04/2019	20/05/2019	6.03	49191	12.437	
Monthly	13/05/2019	13/05/2019	19/06/2019	6.05	48774	12.47	
Monthly	04/06/2019	04/06/2019	17/07/2019	6.12	50937	12.393	
Monthly	18/07/2019	18/07/2019	20/08/2019	5.96	49099	12.291	
Monthly	22/08/2019	22/08/2019	20/09/2019	6.00	49731	12.300	
Monthly	20/09/2019	20/09/2019	18/10/2019	6.27	51547	12.275	
Monthly	15/10/2019	15/10/2019	19/11/2019	6.14	50239	13.334	
Monthly	24/10/2019	24/10/2019	19/11/2019	6.02	51640	12.218	
Monthly	18/11/2019	18/11/2019	20/12/2019	6.07	65068	12.223	
Monthly	06/12/2019	06/12/2019	17/01/2020	6.03	48424	12.205	
Number of Samples Collected							13
Lowest Value							6.0
Mean of Sample							6.1
Highest Sample Value							6.3
Median							6.0

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	15/01/2018	24/01/2018	20/02/2019	136	<0.0005	0.0005	0.0008	555	14900	0.016	<0.004	0.116	0.0087	1640	0.050	0.016	0.651	48	<0.002	10200	4340	39900	8140	0.044	
Quarterly	02/04/2019	18/04/2019	20/05/2019	128	<0.0005	<0.0005	0.0005	574	16200	0.006	<0.004	0.145	<0.0002	1570	0.340	0.011	0.203	52	<0.002	9810	4560	38600	7900	0.095	
Quarterly	18/07/2019	31/07/2019	20/08/2019	116	<0.0005	<0.0005	0.0008	543	14000	0.008	<0.004	0.259	<0.0002	1600	0.301	0.019	0.350	51	<0.002	9620	5140	29100	7940	0.090	
Quarterly	15/10/2019	31/10/2019	19/11/2019	145	<0.0005	0.0009	0.0007	543	15500	0.002	0.02	0.039	<0.0002	1580	0.116	0.011	0.185	52	<0.002	9820	4570	36500	7860	0.121	
Quarterly	24/10/2019	31/10/2019	19/11/2019	156	<0.0005	<0.0005	0.0006	520	16800	0.005	<0.004	0.164	<0.0002	1560	0.057	0.012	0.163	50	0.001	9600	4930	72600	7720	0.145	Re-test after positive CN result on the 15/10/19. CN negative on re-test



Groundwater

Monitoring Point: 52 <PDB18>
Groundwater quality monitoring, Pit dewatering bore

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments		
Monthly	07/01/2019	07/01/2019	20/02/2019	6.39	50139	6.783			
Monthly	05/02/2019	05/02/2019	20/03/2019	6.2	49984	6.903			
Monthly	05/03/2019	05/03/2019	11/04/2019	6.17	50216	7.045			
Monthly	02/04/2019	02/04/2019	20/05/2019	6.2	50442	7.146			
Monthly	08/05/2019	08/05/2019	19/06/2019	6.19	50881	7.164			
Monthly	04/06/2019	04/06/2019	17/07/2019	6.27	48898	7.282			
Monthly	10/07/2019	10/07/2019	20/08/2019	6.17	49125	7.390			
Monthly	22/08/2019	22/08/2019	20/09/2019	6.13	49421	7.596			
Monthly	06/09/2019	06/09/2019	18/10/2019	6.15	66682	7.586			
Monthly	08/10/2019	08/10/2019	19/11/2019	6.22	51647	7.728			
Monthly	07/11/2019	07/11/2019	20/12/2019	6.06	51419	7.855			
Monthly	06/12/2019	06/12/2019	17/01/2020	6.14	49893	7.955			
Number of Samples Collected							12	12	
Lowest Value							6.1	48898	6.783
Mean of Sample							6.2	51604	7.372
Highest Sample Value							6.3	66682	7.955
Median							6.2	50927	7.336

Frequency	Date Sampled	Date Obtained	Date Published	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	07/01/2019	16/01/2019	20/02/2019	<0.0050	0.0011	<0.0020	785	18900	0.001	3.11	<0.0020	1670	0.500	0.0004	0.009	17	<0.002	8970	4250	46300	8840	0.008	
Quarterly	02/04/2019	11/04/2019	20/05/2019	<0.0005	0.001	<0.0002	826	16900	<0.001	1.74	<0.0002	1720	0.530	0.0004	0.0113	23	<0.002	9200	4220	40000	9140	0.011	
Quarterly	10/07/2019	22/07/2019	20/08/2019	<0.0005	0.0039	<0.0002	810	16800	<0.001	2.65	<0.0002	1880	0.518	0.0003	0.0084	24	<0.002	10700	4260	39600	9760	0.007	
Quarterly	08/10/2019	17/10/2019	19/11/2019	<0.0005	0.0013	<0.0002	805	17900	0.003	1.69	<0.0002	1730	0.519	0.0002	0.0097	21	0.002	9370	4190	40500	9130	0.012	

Monitoring Point: 53 <PDB18>
Groundwater quality monitoring, Pit dewatering bore

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments		
Monthly	07/01/2019	07/01/2019	20/02/2019	6.17	53906	21.177			
Monthly	05/02/2019	05/02/2019	20/03/2019	6.1	51042	21.075			
Monthly	05/03/2019	05/03/2019	11/04/2019	6.02	52736	21.077			
Monthly	02/04/2019	02/04/2019	20/05/2019	5.96	52387	21.165			
Monthly	08/05/2019	08/05/2019	19/06/2019	6.08	47781	21.251			
Monthly	04/06/2019	04/06/2019	17/07/2019	6.20	49554	21.330			
Monthly	10/07/2019	10/07/2019	20/08/2019	6.05	50466	20.420			
Monthly	22/08/2019	22/08/2019	20/09/2019	5.96	50810	21.563			
Monthly	02/09/2019	02/09/2019	18/10/2019	6.06	68067	21.572			
Monthly	08/10/2019	08/10/2019	19/11/2019	6.08	52749	21.684			
Monthly	07/11/2019	07/11/2019	20/12/2019	6.06	52076	21.732			
Monthly	06/12/2019	06/12/2019	17/01/2020	6.11	51101	21.782			
Number of Samples Collected							12	12	
Lowest Value							6.0	47781	20.420
Mean of Sample							6.1	52566	21.319
Highest Sample Value							6.2	68067	21.782
Median							6.1	51554	21.279

Frequency	Date Sampled	Date Obtained	Date Published	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	07/01/2019	16/01/2019	20/02/2019	<0.0050	<0.0050	0.0007	1150	20200	<0.0010	0.005	<0.0020	2130	0.0438	0.0003	0.0017	46	0.015	9240	5110	49300	11600	<0.0050	
Quarterly	02/04/2019	11/04/2019	20/05/2019	<0.0005	0.0013	0.0008	1100	17800	<0.001	0.01	<0.0002	2050	0.0249	0.0004	0.002	49	0.014	8900	4580	42600	11200	<0.005	
Quarterly	10/07/2019	22/07/2019	20/08/2019	<0.0005	0.0007	0.0007	1110	17900	<0.001	<0.005	<0.0002	2260	0.0434	0.0004	0.0119	50	0.015	10300	5320	43000	12100	<0.005	
Quarterly	08/10/2019	17/10/2019	19/11/2019	0.0005	0.0016	0.0005	1080	17800	<0.001	<0.005	<0.0002	2070	0.0554	0.0005	0.012	45	0.017	9020	5140	40900	11000	<0.005	

Monitoring Point: 54 <PDB18>
Groundwater quality monitoring, Pit dewatering bore

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments		
Monthly	07/01/2019	07/01/2019	20/02/2019	6.01	49396	17.461			
Monthly	05/02/2019	05/02/2019	20/03/2019	5.95	48805	17.806			
Monthly	04/03/2019	04/03/2019	11/04/2019	5.95	48542	18.110			
Monthly	02/04/2019	02/04/2019	20/05/2019	5.92	49420	18.428			
Monthly	08/05/2019	08/05/2019	19/06/2019	5.96	45145	18.797			
Monthly	04/06/2019	04/06/2019	17/07/2019	5.98	48210	19.055			
Monthly	10/07/2019	10/07/2019	20/08/2019	5.86	48141	19.385			
Monthly	22/08/2019	22/08/2019	20/09/2019	5.91	48148	19.682			
Monthly	02/09/2019	02/09/2019	18/10/2019	5.92	64712	19.736			
Monthly	08/10/2019	08/10/2019	19/11/2019	5.93	50216	20.066			
Monthly	07/11/2019	07/11/2019	20/12/2019	5.93	48005	20.260			
Monthly	06/12/2019	06/12/2019	17/01/2020	5.92	48396	20.435			
Number of Samples Collected							12	12	
Lowest Value							5.9	45145	17.461
Mean of Sample							5.9	49795	19.103
Highest Sample Value							6.0	64712	20.435
Median							5.9	48469	19.226

Frequency	Date Sampled	Date Obtained	Date Published	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	07/01/2019	16/01/2019	20/02/2019	<0.0050	0.0017	0.0014	772	19600	0.002	0.016	<0.0020	1760	0.017	0.001	0.0166	42	<0.002	8900	3560	45600	9180	<0.005	
Quarterly	02/04/2019	11/04/2019	20/05/2019	<0.0005	0.0024	0.0013	787	17100	0.002	0.008	<0.0002	1710	0.0173	0.001	0.0095	44	<0.002	6580	3610	39100	9030	<0.005	
Quarterly	10/07/2019	22/07/2019	20/08/2019	<0.0005	0.0015	0.0014	784	16900	<0.001	0.007	<0.0002	1880	0.0205	0.0009	0.0153	47	<0.002	10000	3570	39000	9700	<0.005	
Quarterly	08/10/2019	17/10/2019	19/11/2019	0.0026	0.0012	0.0012	782	17400	<0.001	<0.005	<0.0002	1750	0.0163	0.0006	0.0066	43	0.002	9000	3610	55500	9160	<0.005	

Monitoring Point: 55 <MON018>
Groundwater quality monitoring, Groundwater monitoring bore located to the east of the northern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments		
Monthly	22/01/2019	22/01/2019	20/02/2019	5.23	48034.71	12.549			
Monthly	11/02/2019	11/02/2019	20/03/2019	5.28	48524.82	12.495			
Monthly	13/03/2019	13/03/2019	11/04/2019	5.19	49178	12.503			
Monthly	09/04/2019	09/04/2019	20/05/2019	5.32	48108	12.498			
Monthly	16/05/2019	16/05/2019	19/06/2019	5.30	48793	12.537			
Monthly	14/06/2019	14/06/2019	17/07/2019	5.35	49135	12.463			
Monthly	17/07/2019	17/07/2019	20/08/2019	5.40	47116	12.435			
Monthly	27/08/2019	27/08/2019	20/09/2019	5.19	47061	12.435			
Monthly	16/09/2019	16/09/2019	18/10/2019	5.03	63024	12.367			
Monthly	15/10/2019	15/10/2019	19/11/2019	5.21	48089	13.312			
Monthly	15/11/2019	15/11/2019	20/12/2019	5.27	49800	12.345			
Monthly	09/12/2019	09/12/2019	17/01/2020	5.21	47019	12.384			
Number of Samples Collected							12	12	
Lowest Value							5.0	47019	12.312
Mean of Sample							5.2	49491	12.444
Highest Sample Value							5.4	63024	12.549
Median							5.3	48316	12.449

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	22/01/2019	01/02/2019	20/02/2019	26	<0.0005	0.0013	0.0005	484	16200	0.003	<0.001	0.005	0.0047	1430	0.378	0.0002	0.0377	39	0.003	9160	4470	34900	7100	0.068	
Quarterly	09/04/2019	18/04/2019	20/05/2019	16	<0.0005	0.0009	0.0004	469	14500	0.002	<0.004	0.006	0.0039	1420	0.343	<0.0001	0.0322	43	0.002	9320	5190	37300	7300	0.059	
Quarterly	17/07/2019	13/07/2019	20/08/2019	8	<0.0005	0.0014	0.0007	494	13600	0.005	<0.004	0.006	0.0063	1450	0.428	0.0002	0.049	40	<0.002	9400	4600	35600	7200	0.125	
Quarterly	15/10/2019	31/10/2019	19/11/2019	32	<0.0005	0.0016	0.0004	491	15500	<0.001	<0.004	<0.005	0.0050	1530	0.458	0.0001	0.0485	44	0.004	10100	4520	36900	7530	0.092	



Groundwater

Monitoring Point: 56 <MON56>
Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	14/01/2019	14/01/2019	20/02/2019	6.61	40046	7.308	
Monthly	07/02/2019	07/02/2019	20/03/2019	6.75	40648	8.539	
Monthly	06/03/2019	06/03/2019	11/04/2019	6.60	39632	7.066	
Monthly	10/04/2019	10/04/2019	20/05/2019	6.63	40356	7.041	
Monthly	08/05/2019	08/05/2019	15/06/2019	6.67	34420	6.891	
Monthly	04/06/2019	04/06/2019	17/07/2019	6.68	36391	6.957	
Monthly	17/07/2019	17/07/2019	20/08/2019	6.62	38830	6.758	
Monthly	22/08/2019	22/08/2019	20/09/2019	6.64	39006	6.655	
Monthly	16/09/2019	16/09/2019	18/10/2019	6.63	50748	6.556	
Monthly	16/09/2019	16/09/2019	19/11/2019	6.70	40767	6.454	
Monthly	25/11/2019	25/11/2019	20/12/2019	6.65	49992	6.333	
Monthly	06/12/2019	06/12/2019	17/01/2020	6.62	39149	6.352	
Number of Samples Collected				12	12	12	
Lowest Value				6.4	34420	6.333	
Mean of Sample				6.6	40830	6.900	
Highest Sample Value				6.8	50748	8.539	
Median				6.6	39839	6.825	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	14/01/2019	24/01/2018	20/02/2019	822	<0.0005	<0.0005	<0.0002	393	11900	0.103	<0.004	0.024	0.0003	1360	0.387	0.014	2.320	57	0.013	7690	3020	30700	6130	0.016	
Quarterly	10/04/2019	18/04/2019	20/05/2019	764	<0.0005	<0.0005	<0.0002	401	13500	0.103	<0.004	2.550	<0.0002	1220	0.311	0.0164	1.730	60	0.010	7480	3230	33000	6020	<0.005	
Quarterly	17/07/2019	13/07/2019	20/08/2019	698	<0.0005	<0.0005	<0.0002	425	11000	0.084	<0.004	4.300	<0.0002	1300	0.304	0.0117	1.860	63	0.014	7840	3030	28400	6410	<0.005	
Quarterly	16/10/2019	31/10/2019	19/11/2019	794	<0.0005	0.0008	<0.0002	410	12900	0.005	<0.004	0.054	<0.0002	1320	0.411	0.029	2.760	65	0.014	8050	2910	29600	6460	<0.005	

Monitoring Point: 57 <MW56A>
Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	04/01/2019	04/01/2019	19/07/2019	7.05	42459	9.078	
Monthly	12/02/2019	12/02/2019	19/07/2019	6.83	42737	9.005	
Monthly	06/03/2019	06/03/2019	19/07/2019	6.73	42490	9.079	
Monthly	10/04/2019	10/04/2019	19/07/2019	6.75	43166	9.305	
Monthly	13/05/2019	13/05/2019	19/07/2019	6.77	41452	9.132	
Monthly	06/06/2019	06/06/2019	19/07/2019	6.82	42237	9.130	
Monthly	11/07/2019	11/07/2019	20/08/2019	6.69	42469	8.969	
Monthly	27/08/2019	27/08/2019	20/09/2019	6.68	41933	9.230	
Monthly	19/09/2019	19/09/2019	18/10/2019	6.88	43273	9.520	
Monthly	23/10/2019	23/10/2019	19/11/2019	6.77	43819	9.009	
Monthly	25/11/2019	25/11/2019	20/12/2019	6.75	51330	8.928	
Monthly	09/12/2019	09/12/2019	17/01/2020	6.73	42616	8.970	
Number of Samples Collected				12	12	12	
Lowest Value				6.7	41452	8.928	
Mean of Sample				6.8	43280	9.131	
Highest Sample Value				7.1	51330	9.520	
Median				6.8	42551	9.079	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	04/01/2019	16/01/2019	19/07/2019	291	<0.0005	0.0008	0.0003	738	16100	<0.001	<0.004	0.67	<0.0002	1120	0.286	0.0008	0.0089	55	0.005	8140	3070	36200	6450	<0.005	
Quarterly	10/04/2019	18/04/2019	19/07/2019	304	<0.0005	<0.0005	<0.0002	814	12800	0.009	<0.0005	0.089	<0.0002	1220	0.833	0.0003	0.0045	49	0.006	8090	3200	33900	7110	<0.005	
Quarterly	11/07/2019	19/07/2019	20/08/2019	318	<0.0005	<0.0005	<0.0002	814	14300	<0.001	<0.004	0.046	<0.0002	1250	0.511	0.0003	0.0029	49	0.005	8020	3010	33500	7230	<0.005	
Quarterly	23/10/2019	31/10/2019	19/11/2019	342	<0.0005	<0.0005	<0.0002	852	13100	<0.001	<0.004	0.043	<0.0002	1250	0.261	0.0003	0.0031	50	0.006	8020	3010	35300	7270	<0.005	

Monitoring Point: 58 <MW56B>
Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	04/01/2019	04/01/2019	19/07/2019	6.68	42522	8.905	
Monthly	12/02/2019	12/02/2019	19/07/2019	6.67	42619	8.779	
Monthly	06/03/2019	06/03/2019	19/07/2019	6.57	42514	8.909	
Monthly	10/04/2019	10/04/2019	19/07/2019	6.60	42469	8.969	
Monthly	13/05/2019	13/05/2019	19/07/2019	6.60	38975	8.958	
Monthly	06/06/2019	06/06/2019	19/07/2019	6.68	41919	8.995	
Monthly	11/07/2019	11/07/2019	20/08/2019	6.63	40852	8.900	
Monthly	27/08/2019	27/08/2019	20/09/2019	6.54	41051	8.800	
Monthly	19/09/2019	19/09/2019	18/10/2019	6.80	42558	8.810	
Monthly	23/10/2019	23/10/2019	19/11/2019	6.60	41847	8.821	
Monthly	25/11/2019	25/11/2019	20/12/2019	6.63	52046	8.706	
Monthly	09/12/2019	09/12/2019	17/01/2020	6.57	41292	8.725	
Number of Samples Collected				12	12	12	
Lowest Value				6.5	38975	8.706	
Mean of Sample				6.6	42579	8.852	
Highest Sample Value				6.8	52266	8.995	
Median				6.6	42337	8.906	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	04/01/2019	16/01/2019	19/07/2019	557	<0.0005	<0.0005	0.0005	654	15800	0.002	<0.004	0.008	<0.0002	1380	0.162	0.0015	0.0153	35	0.006	7920	3340	35400	7320	0.014	
Quarterly	10/04/2019	18/04/2019	19/07/2019	540	<0.0005	<0.0005	0.0001	675	12500	0.002	<0.004	0.028	<0.0002	1410	0.0924	0.0013	0.168	37	0.006	7890	3350	46700	7490	0.016	
Quarterly	11/07/2019	19/07/2019	20/08/2019	518	<0.0005	<0.0005	<0.0002	631	12600	0.002	<0.004	0.045	<0.0002	1360	0.0809	0.0012	0.129	38	0.005	7750	3190	32400	7180	0.007	
Quarterly	23/10/2019	31/10/2019	19/11/2019	614	<0.0005	<0.0005	<0.0002	588	12600	0.002	<0.004	0.028	<0.0002	1350	0.055	0.002	0.209	36	0.006	7630	3430	33900	7030	0.006	

Monitoring Point: 59 <MW56A>
Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	04/01/2019	04/01/2019	19/07/2019	6.86	40718	6.136	
Monthly	12/02/2019	12/02/2019	19/07/2019	6.80	40630	6.168	
Monthly	06/03/2019	06/03/2019	19/07/2019	6.60	40409	6.203	
Monthly	10/04/2019	10/04/2019	19/07/2019	6.78	40811	6.122	
Monthly	13/05/2019	13/05/2019	19/07/2019	6.78	36878	6.205	
Monthly	06/06/2019	06/06/2019	19/07/2019	6.80	38673	6.134	
Monthly	11/07/2019	11/07/2019	20/08/2019	6.71	39463	5.982	
Monthly	27/08/2019	27/08/2019	20/09/2019	6.74	39136	5.975	
Monthly	16/09/2019	16/09/2019	18/10/2019	6.68	52488	5.888	
Monthly	23/10/2019	23/10/2019	19/11/2019	6.90	41817	5.898	
Monthly	25/11/2019	25/11/2019	20/12/2019	6.73	51211	5.766	
Monthly	09/12/2019	09/12/2019	17/01/2020	6.69	40005	5.747	
Number of Samples Collected				12	12	12	
Lowest Value				6.4	36878	5.747	
Mean of Sample				6.8	41829	6.041	
Highest Sample Value				6.9	52488	6.336	
Median				6.8	40920	6.056	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	04/01/2019	16/01/2019	19/07/2019	652	<0.0005	<0.0005	<0.0002	344	14800	<0.001	<0.004	0.026	<0.0002	1190	0.225	0.0014	0.0118	51	0.011	7970	3350	37000	5760	0.04	
Quarterly	10/04/2019	18/04/2019	19/07/2019	611	<0.0005	<0.0005	<0.0002	351	11900	0.001	<0.004	0.026	<0.0002	351	0.199	0.0005	0.0121	51	0.011	7950	3480	30600	5900	0.023	
Quarterly	11/07/2019	19/07/2019	20/08/2019	701	<0.0005	<0.0005	<0.0002	323	13100	<0.001	<0.004	0.027	<0.0002	1210	0.222	0.0003	0.011	50	0.014	7720	3180	30000	5830	0.02	
Quarterly	23/10/2019	31/10/2019	19/11/2019	714	<0.0005	<0.0005	<0.0002	304	12200	<0.001	<0.004	0.028	<0.0002	1240	0.023	0.000	0.008	50	0.014	7780	3570	28100	5880	0.019	

Monitoring Point: 60 <MW56B>
Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	04/01/2019	04/01/2019	19/07/2019	6.57	40429	5.858	
Monthly	12/02/2019	12/02/2019	19/07/2019	6.55	40293	5.671	
Monthly	06/03/2019	06/03/2019	19/07/2019	6.44	39953	5.738	
Monthly	10/04/2019	10/0					



Groundwater

Monitoring Point: 61 <RWL61A>
Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	04/01/2019	04/01/2019	19/07/2019	6.95	34738	29.686	
Monthly	12/02/2019	12/02/2019	19/07/2019	6.93	34687	29.624	
Monthly	06/03/2019	06/03/2019	19/07/2019	6.84	32879	29.722	
Monthly	10/04/2019	10/04/2019	19/07/2019	6.92	34911	29.78	
Monthly	13/05/2019	13/05/2019	19/07/2019	6.89	32640	29.821	
Monthly	06/06/2019	06/06/2019	19/07/2019	6.93	30063	29.771	
Monthly	11/07/2019	11/07/2019	20/09/2019	6.87	32118	29.725	
Monthly	27/08/2019	27/08/2019	20/09/2019	6.87	33985	29.785	
Monthly	06/09/2019	06/09/2019	18/10/2019	6.89	45441	29.851	
Monthly	23/09/2019	23/09/2019	19/11/2019	7.15	35363	29.788	
Monthly	13/11/2019	13/11/2019	20/12/2019	6.87	32904	29.766	
Monthly	04/12/2019	04/12/2019	17/01/2020	6.86	32164	29.745	
Number of Samples Collected							12
Lowest Value							6.8
Mean of Sample							6.9
Highest Sample Value							7.2
Median							6.9

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	04/01/2019	16/01/2019	19/07/2019	742	<0.0005	<0.0005	<0.0002	367	12100	<0.001	<0.004	0.034	<0.0002	902	0.0455	0.0018	0.0026	36	0.005	6770	3130	29100	4630	0.021	
Quarterly	10/04/2019	18/04/2019	19/07/2019	696	<0.0005	<0.0005	<0.0002	362	9910	0.002	<0.004	0.041	<0.0002	895	0.0680	0.0015	0.0033	40	0.005	6660	3010	24900	4590	0.023	
Quarterly	11/07/2019	19/07/2019	20/09/2019	794	0.0021	<0.0005	<0.0002	825	10900	0.002	<0.004	0.045	<0.0002	1780	0.0554	0.0016	0.0033	43	0.004	8830	3210	24600	5390	0.022	
Quarterly	23/09/2019	31/09/2019	19/11/2019	810	<0.0026	<0.0005	<0.0002	337	10100	0.003	<0.004	0.041	<0.0002	913	0.0333	0.0019	0.0093	42	0.004	6740	2800	32000	4600	0.020	

Monitoring Point: 62 <RWL62B>
Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	04/01/2019	04/01/2019	19/07/2019	-	-	-	Dry
Monthly	12/02/2019	12/02/2019	19/07/2019	-	-	-	Dry
Monthly	06/03/2019	06/03/2019	19/07/2019	-	-	-	Dry
Monthly	10/04/2019	10/04/2019	19/07/2019	-	-	-	Dry
Monthly	13/05/2019	13/05/2019	19/07/2019	-	-	-	Dry
Monthly	06/06/2019	06/06/2019	19/07/2019	-	-	-	Dry
Monthly	11/07/2019	11/07/2019	20/09/2019	-	-	-	Dry
Monthly	27/08/2019	27/08/2019	20/09/2019	-	-	-	Dry
Monthly	06/09/2019	06/09/2019	18/10/2019	-	-	-	Dry
Monthly	23/09/2019	23/09/2019	19/11/2019	-	-	-	Dry
Monthly	13/11/2019	13/11/2019	20/12/2019	-	-	-	Dry
Monthly	04/12/2019	04/12/2019	17/01/2020	-	-	-	Dry
Number of Samples Collected							0
Lowest Value							0.0
Mean of Sample							0.0
Highest Sample Value							0.0
Median							0.0

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments	
Quarterly	04/01/2019	16/01/2019	19/07/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry
Quarterly	10/04/2019	18/04/2019	19/07/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry
Quarterly	11/07/2019	19/07/2019	20/09/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry
Quarterly	23/09/2019	31/09/2019	19/11/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry

Monitoring Point: 63 <RWL63A>
Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	04/01/2019	04/01/2019	19/07/2019	7.06	39322	24.045	
Monthly	12/02/2019	12/02/2019	19/07/2019	7.03	38610	23.999	
Monthly	06/03/2019	06/03/2019	19/07/2019	6.94	35154	24.071	
Monthly	10/04/2019	10/04/2019	19/07/2019	6.97	39130	24.076	
Monthly	13/05/2019	13/05/2019	19/07/2019	6.96	37385	24.084	
Monthly	06/06/2019	06/06/2019	19/07/2019	6.99	35830	24.200	
Monthly	11/07/2019	11/07/2019	20/09/2019	6.92	37714	24.026	
Monthly	27/08/2019	27/08/2019	20/09/2019	6.91	36667	24.026	
Monthly	06/09/2019	06/09/2019	18/10/2019	6.96	50745	23.958	
Monthly	23/09/2019	23/09/2019	19/11/2019	7.51	38565	23.998	
Monthly	13/11/2019	13/11/2019	20/12/2019	6.96	37079	23.963	
Monthly	04/12/2019	04/12/2019	17/01/2020	6.92	37809	23.930	
Number of Samples Collected							12
Lowest Value							6.9
Mean of Sample							7.0
Highest Sample Value							7.5
Median							7.0

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	04/01/2019	16/01/2019	19/07/2019	678	<0.0005	<0.0005	0.0005	420	13700	<0.001	<0.004	<0.005	<0.0002	855	0.0334	0.0006	0.0017	28	0.006	8270	3660	32800	4570	0.005	
Quarterly	10/04/2019	18/04/2019	19/07/2019	669	<0.0005	<0.0005	0.0004	414	11100	<0.001	<0.004	<0.005	<0.0002	833	0.0527	0.0006	0.0021	25	0.006	8010	3940	28300	4460	<0.005	
Quarterly	11/07/2019	19/07/2019	20/09/2019	690	<0.0005	<0.0005	0.0004	404	12100	<0.001	<0.004	0.006	<0.0002	896	0.0294	0.0007	0.0027	26	0.004	8920	3450	28900	4450	<0.005	
Quarterly	23/09/2019	31/09/2019	19/11/2019	696	<0.0005	<0.0005	0.0003	370	11200	<0.001	<0.004	<0.005	<0.0002	815	0.019	0.001	0.001	27	0.006	7760	3590	26500	4280	<0.005	

Monitoring Point: 64 <RWL64B>
Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	04/01/2019	04/01/2019	19/07/2019	-	-	-	Dry
Monthly	12/02/2019	12/02/2019	19/07/2019	-	-	-	Dry
Monthly	06/03/2019	06/03/2019	19/07/2019	-	-	-	Dry
Monthly	10/04/2019	10/04/2019	19/07/2019	-	-	-	Dry
Monthly	13/05/2019	13/05/2019	19/07/2019	-	-	-	Dry
Monthly	06/06/2019	06/06/2019	19/07/2019	-	-	-	Dry
Monthly	11/07/2019	11/07/2019	20/09/2019	-	-	-	Dry
Monthly	27/08/2019	27/08/2019	20/09/2019	-	-	-	Dry
Monthly	06/09/2019	06/09/2019	18/10/2019	-	-	-	Dry
Monthly	23/09/2019	23/09/2019	19/11/2019	-	-	-	Dry
Monthly	13/11/2019	13/11/2019	20/12/2019	-	-	-	Dry
Monthly	04/12/2019	04/12/2019	17/01/2020	-	-	-	Dry
Number of Samples Collected							0
Lowest Value							0.0
Mean of Sample							0.0
Highest Sample Value							0.0
Median							0.0

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments	
Quarterly	04/01/2019	16/01/2019	19/07/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry
Quarterly	10/04/2019	18/04/2019	19/07/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry
Quarterly	11/07/2019	19/07/2019	20/09/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry
Quarterly	23/09/2019	31/09/2019	19/11/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry

Monitoring Point: 65 <RWL65A>
Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	04/01/2019	04/01/2019	19/07/2019	7.00	45447	16.922	
Monthly	12/02/2019	12/02/2019	19/07/2019	6.97	44935	16.83	
Monthly	06/03/2019	06/03/2019	19/07/2019	6.89	42482	16.885	
Monthly	10/04/2019	10/04/2019	19/07/2019	6.95	45737	16.838	
Monthly	13/05/2019	13/05/2019	19/07/2019	6.93	43040	16.826	
Monthly	06/06/2019	06/06/2019	19/07/2019	6.95	40522	16.754	
Monthly	11/07/2019	11/07/2019	20/09/2019	6.93	41137	16.660	
Monthly	27/08/2019	27/08/2019	20/09/2019	6.90	43563	16.659	
Monthly	06/09/2019	06/09/2019	18/10/2019	6.96	59224	16.548	
Monthly	23/09/2019	23/09/2019	19/11/2019	7.11	42125	16.581	
Monthly	13/11/2019	13/11/2019	20/12/2019	7.02	42878	16.501	
Monthly	04/12/2019	04/12/2019	17/01/2020	6.86	44739	16.460	
Number of Samples Collected							12
Lowest Value							6.9
Mean of Sample							7.0
Highest Sample Value							7.2
Median							7.0

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	04/01/2019	16/01/2019	19/07/2019	685	<0.0005	0.0005	0.0004	403	16200	<0.001	<0.004	0.006	<0.0002	961	0.0127	0.0002	0.0054	29	0.034	9790	4620	38800	4960	0.009	
Quarterly	10/04/																								



Groundwater

Monitoring Point: 66 <RWL62B>
Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	04/01/2019	04/01/2019	19/07/2019	-	-	-	Dry
Monthly	12/02/2019	12/02/2019	19/07/2019	-	-	-	Dry
Monthly	06/03/2019	06/03/2019	19/07/2019	-	-	-	Dry
Monthly	10/04/2019	10/04/2019	19/07/2019	-	-	-	Dry
Monthly	13/05/2019	13/05/2019	19/07/2019	-	-	-	Dry
Monthly	06/06/2019	06/06/2019	19/07/2019	-	-	-	Dry
Monthly	11/07/2019	11/07/2019	20/09/2019	-	-	-	Dry
Monthly	27/08/2019	27/08/2019	20/09/2019	-	-	-	Dry
Monthly	06/09/2019	06/09/2019	18/10/2019	-	-	-	Dry
Monthly	23/10/2019	23/10/2019	19/11/2019	-	-	-	Dry
Monthly	13/11/2019	13/11/2019	20/12/2019	-	-	-	Dry
Monthly	04/12/2019	04/12/2019	17/01/2020	-	-	-	Dry
Number of Samples Collected				0	0	0	
Lowest Value				0.0	0	0.000	
Mean of Sample				0.0	0	0.000	
Highest Sample Value				0.0	0	0.000	
Median				0.0	0	0.000	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments	
Quarterly	04/01/2019	16/01/2019	19/07/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry
Quarterly	10/04/2019	18/04/2019	19/07/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry
Quarterly	11/07/2019	19/07/2019	20/09/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry
Quarterly	23/10/2019	31/10/2019	19/11/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry

Monitoring Point: 67 <RWL61A>
Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	04/01/2019	04/01/2019	19/07/2019	6.92	45633	5.665	
Monthly	12/02/2019	12/02/2019	19/07/2019	6.87	45151	5.519	
Monthly	06/03/2019	06/03/2019	19/07/2019	6.78	42630	5.586	
Monthly	10/04/2019	10/04/2019	19/07/2019	6.81	45606	5.561	
Monthly	13/05/2019	13/05/2019	19/07/2019	6.76	45309	5.572	
Monthly	06/06/2019	06/06/2019	19/07/2019	6.81	41843	5.541	
Monthly	11/07/2019	11/07/2019	20/09/2019	6.78	43795	5.480	
Monthly	27/08/2019	27/08/2019	20/09/2019	6.84	44243	5.545	
Monthly	06/09/2019	06/09/2019	18/10/2019	6.79	59370	5.419	
Monthly	23/10/2019	23/10/2019	19/11/2019	7.18	45169	5.553	
Monthly	13/11/2019	13/11/2019	20/12/2019	6.77	41100	5.522	
Monthly	04/12/2019	04/12/2019	17/01/2020	6.76	42327	5.408	
Number of Samples Collected				12	12	12	
Lowest Value				6.8	41100	5.408	
Mean of Sample				6.8	45176	5.531	
Highest Sample Value				7.2	59370	5.605	
Median				6.8	44607	5.541	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	04/01/2019	16/01/2019	19/07/2019	572	<0.0005	<0.0005	0.0008	448	16200	<0.001	<0.004	0.023	<0.0002	1160	0.0560	0.0002	0.0047	23	0.032	9560	4740	40500	5900	0.015	
Quarterly	10/04/2019	18/04/2019	19/07/2019	562	<0.0005	<0.0005	0.0006	467	12900	<0.001	<0.004	0.021	<0.0002	1150	0.0417	<0.0001	0.0024	29	0.028	9520	5480	39500	5900	0.006	
Quarterly	11/07/2019	19/07/2019	20/09/2019	492	<0.0005	<0.0005	0.0006	464	13600	<0.001	<0.004	0.005	<0.0002	1170	0.0400	0.0001	0.0017	24	0.035	9560	5270	35000	5980	<0.005	
Quarterly	23/10/2019	31/10/2019	19/11/2019	576	<0.0005	<0.0005	0.0006	437	13100	<0.001	<0.004	0.019	<0.0002	1160	0.0369	0.0004	0.0240	24	0.033	9420	5220	32600	5870	<0.005	

Monitoring Point: 68 <RWL61B>
Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	04/01/2019	04/01/2019	19/07/2019	6.58	36583	6.048	
Monthly	12/02/2019	12/02/2019	19/07/2019	6.61	36641	5.928	
Monthly	06/03/2019	06/03/2019	19/07/2019	6.60	35252	5.988	
Monthly	10/04/2019	10/04/2019	19/07/2019	6.50	36820	5.993	
Monthly	13/05/2019	13/05/2019	19/07/2019	6.46	35503	5.994	
Monthly	06/06/2019	06/06/2019	19/07/2019	6.52	33860	5.985	
Monthly	11/07/2019	11/07/2019	20/09/2019	6.40	35343	5.940	
Monthly	27/08/2019	27/08/2019	20/09/2019	6.58	35860	5.920	
Monthly	06/09/2019	06/09/2019	18/10/2019	6.46	47600	5.781	
Monthly	23/10/2019	23/10/2019	19/11/2019	6.71	37521	5.926	
Monthly	13/11/2019	13/11/2019	20/12/2019	6.50	34883	5.924	
Monthly	04/12/2019	04/12/2019	17/01/2020	6.32	35150	5.855	
Number of Samples Collected				12	12	12	
Lowest Value				6.3	33860	5.781	
Mean of Sample				6.5	36742	5.932	
Highest Sample Value				6.7	47600	6.098	
Median				6.5	36460	5.927	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Cyanide WAD (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Hardness (mg/L)	Zinc (mg/L)	Comments
Quarterly	04/01/2019	16/01/2019	19/07/2019	305	<0.0005	<0.0005	0.0008	195	12900	0.002	<0.004	0.012	<0.0002	782	0.1010	<0.0001	0.0031	<1	<0.002	7690	3120	30600	3710	0.006	
Quarterly	10/04/2019	18/04/2019	19/07/2019	297	<0.0005	<0.0005	0.0004	197	10500	0.001	<0.004	0.009	<0.0002	785	0.0734	0.0002	0.0026	2	0.002	7180	2670	25600	3520	<0.005	
Quarterly	11/07/2019	19/07/2019	20/09/2019	290	<0.0005	<0.0005	0.0002	189	11400	<0.001	<0.004	0.005	<0.0002	782	0.0847	<0.0001	0.0018	3	<0.002	7450	2960	26300	3510	<0.005	
Quarterly	23/10/2019	31/10/2019	19/11/2019	304	<0.0005	<0.0005	0.0002	172	10500	<0.001	<0.004	0.011	<0.0002	782	0.0336	0.0001	0.0021	3	<0.002	7410	3210	24400	3570	<0.005	

Waste Rock Leachate

Monitoring Point: 41 -Northern Waste Emplacement-

Northern Waste Emplacement leachate quality monitoring

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	Comments
Monthly	09/01/2019	09/01/2019	20/02/2019	-	-	No water present in toe drain
Monthly	13/02/2019	13/02/2019	20/03/2019	-	-	No water present in toe drain
Monthly	12/03/2019	12/03/2019	11/04/2019	-	-	No water present in toe drain
Monthly	03/04/2019	03/04/2019	20/05/2019	-	-	No water present in toe drain
Monthly	02/05/2019	02/05/2019	19/06/2019	-	-	No water present in toe drain
Monthly	04/06/2019	04/06/2019	17/06/2019	-	-	No water present in toe drain
Monthly	02/07/2019	02/07/2019	20/08/2019	-	-	No water present in toe drain
Monthly	06/08/2019	06/08/2019	20/09/2019	-	-	No water present in toe drain
Monthly	03/09/2019	03/09/2019	18/10/2019	-	-	No water present in toe drain
Monthly	15/10/2019	15/10/2019	19/11/2019	-	-	No water present in toe drain
Monthly	12/11/2019	12/11/2019	20/12/2019	-	-	No water present in toe drain
Monthly	11/12/2019	11/12/2019	17/01/2020	-	-	No water present in toe drain
Number of Samples Collected						0
Lowest Value						0.0
Mean of Sample						0.0
Highest Sample Value						0.0
Median						0.0

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Total Hardness (mg/L)	Total Dissolved Solids (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments	
Quarterly	09/01/2019	09/01/2019	20/02/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No water present in toe drain
Quarterly	03/04/2019	03/04/2019	20/05/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No water present in toe drain
Quarterly	02/07/2019	02/07/2019	20/08/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No water present in toe drain
Quarterly	15/10/2019	15/10/2019	19/11/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No water present in toe drain

Monitoring Point: 42 -Southern Waste Emplacement-

Southern Waste Emplacement leachate quality monitoring

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	Comments
Monthly	09/01/2019	09/01/2019	20/02/2019	7.66	33427	
Monthly	13/02/2019	13/02/2019	20/03/2019	7.92	19065	
Monthly	12/03/2019	12/03/2019	11/04/2019	7.52	17282	
Monthly	03/04/2019	03/04/2019	20/05/2019	6.84	22660	
Monthly	02/05/2019	02/05/2019	19/06/2019	7.45	23345	
Monthly	04/06/2019	04/06/2019	17/06/2019	8.06	21700	
Monthly	02/07/2019	02/07/2019	20/08/2019	6.89	13174	
Monthly	06/08/2019	06/08/2019	20/09/2019	8.17	17419	
Monthly	03/09/2019	03/09/2019	18/10/2019	6.4	16757	
Monthly	15/10/2019	15/10/2019	19/11/2019	6.85	29987	
Monthly	12/11/2019	12/11/2019	20/12/2019	6.15	33367	
Monthly	11/12/2019	11/12/2019	17/01/2020	7.53	27051	
Number of Samples Collected						12
Lowest Value						6.2
Mean of Sample						7.3
Highest Sample Value						8.2
Median						7.5

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Total Hardness (mg/L)	Total Dissolved Solids (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments
Quarterly	09/01/2019	09/01/2019	20/02/2019	158	<0.00050	0.0024	0.0011	977	10700	0.007	0.11	<0.00020	1110	1.570	0.006	0.003	48	<0.002	5250	4360	7010	30700	239	0.009	-
Quarterly	03/04/2019	03/04/2019	20/05/2019	193	0.0007	0.0011	0.0011	727	6300	0.007	<0.005	<0.0002	653	0.072	0.0043	0.0007	35	<0.002	3040	2990	4620	15400	13	<0.005	-
Quarterly	02/07/2019	02/07/2019	20/08/2019	201	<0.0005	0.0008	0.0019	822	6110	0.002	0.007	<0.0002	694	0.125	0.0028	0.0013	33	<0.002	3070	3160	4910	15000	10	0.016	-
Quarterly	15/10/2019	15/10/2019	19/11/2019	228	<0.0005	0.0020	0.0042	792	6890	<0.001	<0.005	<0.0002	858	2.310	0.0045	<0.0005	39	<0.002	3830	3380	5510	19100	116	0.026	-

Monitoring Point: 43 -Perimeter Waste Emplacement-

Perimeter Waste Emplacement leachate quality monitoring

Frequency	Date Sampled	Date Obtained	Date Published	Field - pH (units)	Field - Electrical Conductivity (µS/cm)	Comments
Monthly	09/01/2019	09/01/2019	20/02/2019	-	-	No water present in toe drain
Monthly	13/02/2019	13/02/2019	20/03/2019	-	-	No water present in toe drain
Monthly	12/03/2019	12/03/2019	11/04/2019	-	-	No water present in toe drain
Monthly	03/04/2019	03/04/2019	20/05/2019	-	-	No water present in toe drain
Monthly	02/05/2019	02/05/2019	19/06/2019	-	-	No water present in toe drain
Monthly	04/06/2019	04/06/2019	17/06/2019	-	-	No water present in toe drain
Monthly	02/07/2019	02/07/2019	20/08/2019	-	-	No water present in toe drain
Monthly	06/08/2019	06/08/2019	20/09/2019	-	-	No water present in toe drain
Monthly	03/09/2019	03/09/2019	18/10/2019	-	-	No water present in toe drain
Monthly	15/10/2019	15/10/2019	19/11/2019	-	-	No water present in toe drain
Monthly	12/11/2019	12/11/2019	20/12/2019	-	-	No water present in toe drain
Monthly	11/12/2019	11/12/2019	17/01/2020	-	-	No water present in toe drain
Number of Samples Collected						0
Lowest Value						0.0
Mean of Sample						0.0
Highest Sample Value						0.0
Median						0.0

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Total Hardness (mg/L)	Total Dissolved Solids (mg/L)	Total Suspended Solids (mg/L)	Zinc (mg/L)	Comments	
Quarterly	09/01/2019	09/01/2019	20/02/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No water present in toe drain
Quarterly	03/04/2019	03/04/2019	20/05/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No water present in toe drain
Quarterly	02/07/2019	02/07/2019	20/08/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No water present in toe drain
Quarterly	15/10/2019	15/10/2019	19/11/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No water present in toe drain



Ambient Noise

Q1 Noise Monitoring

Daytime Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(15min)} - dBA		Noise Criteria LA _{eq(15min)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
N01	20/02/2019	05/03/2019	20/03/2019	44	40	-	
N11	21/02/2019	05/03/2019	20/03/2019	<20	<20	35	
N09	20/02/2019	05/03/2019	20/03/2019	<20	<20	38	
N10	20/02/2019	05/03/2019	20/03/2019	<20	<20	35	
N12	21/02/2019	05/03/2019	20/03/2019	<20	<20	37	
N15	20/02/2019	05/03/2019	20/03/2019	<20	<20	35	
N17	20/02/2019	05/03/2019	20/03/2019	<20	<20	36	
N16	20/02/2019	05/03/2019	20/03/2019	<20	<20	36	

Evening Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(15min)} - dBA		Noise Criteria LA _{eq(15min)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
N01	20/02/2019	05/03/2019	20/03/2019	41	34	-	
N11	19/02/2019	05/03/2019	20/03/2019	29	28	35	
N09	19/02/2019	05/03/2019	20/03/2019	<20	<20	38	
N10	19/02/2019	05/03/2019	20/03/2019	21	20	35	
N12	20/02/2019	05/03/2019	20/03/2019	20	17	37	
N15	19/02/2019	05/03/2019	20/03/2019	<20	<20	35	
N17	19/02/2019	05/03/2019	20/03/2019	<20	<20	36	
N16	19/02/2019	05/03/2019	20/03/2019	<20	<20	36	

Night time Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(15min)} - dBA		Noise Criteria LA _{eq(15min)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
N01	20/02/2019	05/03/2019	20/03/2019	38	41	-	
N11	19/02/2019	05/03/2019	20/03/2019	30	28	35	
N09	20/02/2019	05/03/2019	20/03/2019	<20	<20	38	
N10	19/02/2019	05/03/2019	20/03/2019	30	29	35	
N12	20/02/2019	05/03/2019	20/03/2019	18	15	37	
N15	20/02/2019	05/03/2019	20/03/2019	<20	<20	35	
N17	20/02/2019	05/03/2019	20/03/2019	<20	<20	36	
N16	20/02/2019	05/03/2019	20/03/2019	<20	<20	36	

n/a - Mine noise emission not discernible

Q2 Noise Monitoring

Daytime Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(15min)} - dBA		Noise Criteria LA _{eq(15min)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
N01	15/05/2019	28/05/2019	19/06/2019	45	40	-	
N11	14/05/2019	28/05/2019	19/06/2019	29	28	35	
N09	15/05/2019	28/05/2019	19/06/2019	<20	<20	38	
N10	14/05/2019	28/05/2019	19/06/2019	28	27	35	
N12	14/05/2019	28/05/2019	19/06/2019	22	20	37	
N15	15/05/2019	28/05/2019	19/06/2019	32	31	35	
N17	15/05/2019	28/05/2019	19/06/2019	20	21	36	
N16	15/05/2019	28/05/2019	19/06/2019	31	31	36	

Evening Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(15min)} - dBA		Noise Criteria LA _{eq(15min)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
N01	15/05/2019	28/05/2019	19/06/2019	39	38	-	
N11	14/05/2019	28/05/2019	19/06/2019	<20	<20	35	
N09	14/05/2019	28/05/2019	19/06/2019	25	23	38	
N10	14/05/2019	28/05/2019	19/06/2019	<20	<20	35	
N12	14/05/2019	28/05/2019	19/06/2019	<20	<20	37	
N15	15/05/2019	28/05/2019	19/06/2019	<20	<20	35	
N17	14/05/2019	28/05/2019	19/06/2019	20	<20	36	
N16	15/05/2019	28/05/2019	19/06/2019	<20	<20	36	

Night time Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(15min)} - dBA		Noise Criteria LA _{eq(15min)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
N01	16/05/2019	28/05/2019	19/06/2019	38	39	-	
N11	14/05/2019	28/05/2019	19/06/2019	21	22	35	
N09	15/05/2019	28/05/2019	19/06/2019	<20	<20	38	
N10	15/05/2019	28/05/2019	19/06/2019	20	21	35	
N12	14/05/2019	28/05/2019	19/06/2019	<20	<20	37	
N15	14/05/2019	28/05/2019	19/06/2019	20	20	35	
N17	14/05/2019	28/05/2019	19/06/2019	23	23	36	
N16	14/05/2019	28/05/2019	19/06/2019	22	21	36	

N/A - Mine noise emission not discernible



Ambient Noise

Q3 Noise Monitoring

Daytime Mine Operating Intrinsic Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(15min)} - dBA		Noise Criteria LA _{eq(15min)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
N01	06/08/2019	26/08/2019	20/08/2019	23	27	-	Noise from drilling activities
N11	06/08/2019	26/08/2019	20/08/2019	<20	<20	35	
N09	06/08/2019	26/08/2019	20/08/2019	26	27	38	
N10	06/08/2019	26/08/2019	20/08/2019	15	<20	35	
N12	06/08/2019	26/08/2019	20/08/2019	26	30	37	
N15	06/08/2019	26/08/2019	20/08/2019	32	28	35	
N17	06/08/2019	26/08/2019	20/08/2019	20	22	36	
N16	06/08/2019	26/08/2019	20/08/2019	35	34	36	

Evening Mine Operating Intrinsic Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(15min)} - dBA		Noise Criteria LA _{eq(15min)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
N01	06/08/2019	26/08/2019	20/08/2019	38	45	-	Noise from drilling activities
N11	06/08/2019	26/08/2019	20/08/2019	<20	<20	35	
N09	07/08/2019	26/08/2019	20/08/2019	<20	<20	38	
N10	07/08/2019	26/08/2019	20/08/2019	<20	<20	35	
N12	06/08/2019	26/08/2019	20/08/2019	<20	<20	37	
N15	06/08/2019	26/08/2019	20/08/2019	15	<20	35	
N17	07/08/2019	26/08/2019	20/08/2019	<20	<20	36	
N16	06/08/2019	26/08/2019	20/08/2019	<20	<20	36	

Night time Mine Operating Intrinsic Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(15min)} - dBA		Noise Criteria LA _{eq(15min)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
N01	06/08/2019	26/08/2019	20/08/2019	50	40	-	Noise from drilling activities
N11	07/08/2019	26/08/2019	20/08/2019	<20	<20	35	
N09	07/08/2019	26/08/2019	20/08/2019	<20	<20	38	
N10	07/08/2019	26/08/2019	20/08/2019	<20	<20	35	
N12	07/08/2019	26/08/2019	20/08/2019	<20	<20	37	
N15	07/08/2019	26/08/2019	20/08/2019	<20	<20	35	
N17	08/08/2019	26/08/2019	20/08/2019	<20	<20	36	
N16	06/08/2019	26/08/2019	20/08/2019	<20	<20	36	

N/A - Mine noise emission not discernible

Q4 Noise Monitoring

Daytime Mine Operating Intrinsic Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(15min)} - dBA		Noise Criteria LA _{eq(15min)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
N01	20/11/2019	13/12/2019	20/12/2019	32	30	-	Noise from drilling activities
N11	20/11/2019	13/12/2019	20/12/2019	<20	15	35	
N09	20/11/2019	13/12/2019	20/12/2019	32	28	38	
N10	20/11/2019	13/12/2019	20/12/2019	26	24	35	
N12	20/11/2019	13/12/2019	20/12/2019	<20	<20	37	
N15	19/11/2019	13/12/2019	20/12/2019	22	20	35	
N17	20/11/2019	13/12/2019	20/12/2019	<20	<20	36	
N16	19/11/2019	13/12/2019	20/12/2019	<20	<20	36	

Evening Mine Operating Intrinsic Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(15min)} - dBA		Noise Criteria LA _{eq(15min)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
N01	19/11/2019	13/12/2019	20/12/2019	35	36	-	Noise from drilling activities
N11	20/11/2019	13/12/2019	20/12/2019	15	13	35	
N09	20/11/2019	13/12/2019	20/12/2019	<20	<20	38	
N10	20/11/2019	13/12/2019	20/12/2019	<20	<20	35	
N12	20/11/2019	13/12/2019	20/12/2019	15	16	37	
N15	21/11/2019	13/12/2019	20/12/2019	20	22	35	
N17	20/11/2019	13/12/2019	20/12/2019	<20	<20	36	
N16	21/11/2019	13/12/2019	20/12/2019	18	19	36	

Night time Mine Operating Intrinsic Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(15min)} - dBA		Noise Criteria LA _{eq(15min)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
N01	20/11/2019	13/12/2019	20/12/2019	47	47	-	Noise from drilling activities
N11	20/11/2019	13/12/2019	20/12/2019	<20	<20	35	
N09	19/11/2019	13/12/2019	20/12/2019	<20	<20	38	
N10	20/11/2019	13/12/2019	20/12/2019	<20	<20	35	
N12	20/11/2019	13/12/2019	20/12/2019	<20	<20	37	
N15	19/11/2019	13/12/2019	20/12/2019	<20	<20	35	
N17	20/11/2019	13/12/2019	20/12/2019	<20	<20	36	
N16	19/11/2019	13/12/2019	20/12/2019	<20	<20	36	

Blasting & Ground Vibration

Monitoring Point: BM01

Blast monitoring. Airblast overpressure and ground vibration peak particle velocity recorded at private residence to the south-east of ML155 boundary

Blast Number	Day/Date	Time	Date Observed	Date Published	Trigger Threshold		BM01 at Blast Time		Comments
					Ground Vibration (mm/s)	Airblast Overpressure (dB(L))	Ground Vibration (mm/s)	Airblast Overpressure (dB(L))	
JANUARY									
1145-106	Tuesday, 1 January 2019	12:36:31	06/02/2019	20/02/2019	5	95	0.07	81.9	
1146-100	Wednesday, 2 January 2019	12:34:25	06/02/2019	20/02/2019	5	115	0.07	81.9	
1145-88A	Friday, 3 January 2019	12:22:36	06/02/2019	20/02/2019	5	115	0.07	88.0	
831-20	Saturday, 5 January 2019	12:40:42	06/02/2019	20/02/2019	5	115	0.07	102.8	
1145-909	Saturday, 5 January 2019	12:40:42	06/02/2019	20/02/2019	5	115	0.07	81.9	
822-6A	Sunday, 6 January 2019	12:29:37	06/02/2019	20/02/2019	5	95	0.07	81.9	
1146-102	Sunday, 6 January 2019	12:03:55	06/02/2019	20/02/2019	5	95	0.07	81.9	
831-8	Monday, 7 January 2019	12:05:46	06/02/2019	20/02/2019	5	115	0.07	81.9	
1137-107	Tuesday, 8 January 2019	12:38:41	06/02/2019	20/02/2019	5	115	0.07	81.9	
822-3-15-16	Thursday, 10 January 2019	12:36:21	06/02/2019	20/02/2019	5	115	0.08	81.9	
1138-101	Friday, 11 January 2019	12:32:56	06/02/2019	20/02/2019	5	115	0.07	81.9	
1083-135	Monday, 14 January 2019	12:42:03	06/02/2019	20/02/2019	5	115	0.07	84.0	
1137-101	Tuesday, 15 January 2019	12:33:32	06/02/2019	20/02/2019	5	115	0.07	91.5	
1083-134	Wednesday, 16 January 2019	12:32:56	06/02/2019	20/02/2019	5	115	0.07	81.9	
1137-84	Thursday, 17 January 2019	12:33:15	06/02/2019	20/02/2019	5	115	0.08	106.5	
822-9-10	Friday, 18 January 2019	12:25:29	06/02/2019	20/02/2019	5	115	0.07	81.9	
1146-05-64	Saturday, 19 January 2019	12:57:35	06/02/2019	20/02/2019	5	115	0.07	88.0	
831-15	Monday, 21 January 2019	12:29:40	06/02/2019	20/02/2019	5	115	0.07	88.0	
822-151	Monday, 21 January 2019	12:29:40	06/02/2019	20/02/2019	5	115	0.07	88.0	
1137-90-21	Monday, 21 January 2019	12:52:41	06/02/2019	20/02/2019	5	115	0.07	91.5	
1137-100	Tuesday, 22 January 2019	12:34:57	06/02/2019	20/02/2019	5	115	0.07	88.0	
822-14	Wednesday, 23 January 2019	12:29:09	06/02/2019	20/02/2019	5	115	0.07	84.0	
1146-103	Thursday, 24 January 2019	12:47:18	06/02/2019	20/02/2019	5	115	0.07	81.9	
1146-105	Friday, 25 January 2019	12:35:43	06/02/2019	20/02/2019	5	115	0.08	84.0	
1146-88B	Saturday, 26 January 2019	12:14:58	06/02/2019	20/02/2019	5	115	0.07	88.0	
1083-136	Monday, 28 January 2019	12:00:12	06/02/2019	20/02/2019	5	95	0.07	91.5	
1137-103	Monday, 28 January 2019	11:00:12	06/02/2019	20/02/2019	5	95	0.10	91.5	
822-20	Wednesday, 30 January 2019	12:08:36	06/02/2019	20/02/2019	5	115	0.07	88.8	
822-4	Wednesday, 30 January 2019	12:08:36	06/02/2019	20/02/2019	5	115	0.07	88.8	
822-13	Wednesday, 30 January 2019	12:08:36	06/02/2019	20/02/2019	5	115	0.07	88.8	
FEBRUARY									
1137-91-114	Friday, 1 February 2019	12:20:04	08/02/2019	20/03/2019	5	115	0.08	81.9	
1137-105	Monday, 4 February 2019	12:31:02	08/02/2019	20/03/2019	5	115	0.07	81.9	
1138-102	Monday, 4 February 2019	12:31:02	08/02/2019	20/03/2019	5	115	0.07	81.9	
1137-95	Tuesday, 5 February 2019	12:34:55	08/02/2019	20/03/2019	5	115	0.08	88.0	
822-12	Friday, 8 February 2019	12:07:18	08/02/2019	20/03/2019	5	115	0.07	81.9	
1137-113	Saturday, 9 February 2019	12:45:17	08/02/2019	20/03/2019	5	115	0.07	84.0	
1138-135	Monday, 11 February 2019	12:51:03	08/02/2019	20/03/2019	5	95	0.07	88.0	
822-17	Monday, 11 February 2019	12:42:31	08/02/2019	20/03/2019	5	115	0.07	88.0	
1137-110-111	Wednesday, 13 February 2019	12:40:21	08/02/2019	20/03/2019	5	115	0.08	88.0	
1137-96	Thursday, 14 February 2019	12:40:21	08/02/2019	20/03/2019	5	115	0.07	88.0	
822-18	Thursday, 14 February 2019	12:35:24	08/02/2019	20/03/2019	5	115	0.08	88.0	
1137-131	Thursday, 14 February 2019	12:00:08	08/02/2019	20/03/2019	5	115	0.08	91.5	
1137-152	Friday, 15 February 2019	12:44:18	08/02/2019	20/03/2019	5	115	0.07	81.9	
1138-103	Friday, 15 February 2019	12:46:10	08/02/2019	20/03/2019	5	115	0.07	81.9	
822-19	Monday, 18 February 2019	12:45:56	08/02/2019	20/03/2019	5	115	0.07	108.4	
1137-123	Monday, 18 February 2019	12:42:35	08/02/2019	20/03/2019	5	115	0.07	88.0	
813-501-502	Friday, 22 February 2019	12:26:24	08/02/2019	20/03/2019	5	115	0.08	81.9	
813-1	Friday, 22 February 2019	12:26:24	08/02/2019	20/03/2019	5	115	0.08	81.9	
1137-07-68	Saturday, 23 February 2019	12:31:19	08/02/2019	20/03/2019	5	115	0.07	81.9	
1137-109	Saturday, 23 February 2019	12:31:19	08/02/2019	20/03/2019	5	115	0.07	101.0	
1101-124	Saturday, 23 February 2019	12:02:15	08/02/2019	20/03/2019	5	115	0.07	100.0	
1074-121	Monday, 25 February 2019	12:40:15	08/02/2019	20/03/2019	5	115	0.07	81.9	
813-4	Tuesday, 26 February 2019	12:35:30	08/02/2019	20/03/2019	5	115	0.07	81.9	
813-503-504	Wednesday, 27 February 2019	12:41:20	08/02/2019	20/03/2019	5	115	0.07	81.9	
1138-122	Wednesday, 27 February 2019	12:39:38	08/02/2019	20/03/2019	5	115	0.07	88.0	
1137-132	Thursday, 28 February 2019	12:35:07	08/02/2019	20/03/2019	5	115	0.08	88.0	
MARCH									
813-3	Saturday, 2 March 2019	12:38:50	10/04/2019	11/04/2019	5	115	0.08	95.9	
1137-108	Sunday, 3 March 2019	12:37:10	10/04/2019	11/04/2019	5	95	0.08	81.9	
813-505A	Monday, 4 March 2019	12:04:55	10/04/2019	11/04/2019	5	115	0.07	81.9	
1138-104	Monday, 4 March 2019	12:04:55	10/04/2019	11/04/2019	5	115	0.07	81.9	
1137-107	Tuesday, 5 March 2019	12:28:10	10/04/2019	11/04/2019	5	115	0.07	81.9	
1138-100	Thursday, 7 March 2019	12:39:29	10/04/2019	11/04/2019	5	115	0.07	81.9	
813-5	Friday, 8 March 2019	12:30:02	10/04/2019	11/04/2019	5	115	0.09	91.5	
1138-109-110	Saturday, 9 March 2019	12:37:15	10/04/2019	11/04/2019	5	95	0.07	84.0	
1138-119	Tuesday, 12 March 2019	12:41:40	10/04/2019	11/04/2019	5	115	0.08	88.0	
1138-136	Tuesday, 12 March 2019	12:41:40	10/04/2019	11/04/2019	5	115	0.09	88.0	
1110-156	Wednesday, 13 March 2019	12:28:59	10/04/2019	11/04/2019	5	115	0.07	81.9	
CGUS 0001	Friday, 15 March 2019	12:36:51	10/04/2019	11/04/2019	5	115	0.07	81.9	
1139-159	Saturday, 16 March 2019	12:20:26	10/04/2019	11/04/2019	5	115	0.09	97.5	
CGUS 0002	Saturday, 16 March 2019	12:27:16	10/04/2019	11/04/2019	5	115	0.07	84.0	
813-13	Monday, 18 March 2019	12:41:06	10/04/2019	11/04/2019	5	115	0.07	81.9	
CGUS 0003	Monday, 18 March 2019	12:54:44	10/04/2019	11/04/2019	5	115	0.08	97.5	
1139-155	Monday, 18 March 2019	12:54:44	10/04/2019	11/04/2019	5	115	0.08	97.5	
813-4	Wednesday, 20 March 2019	12:33:47	10/04/2019	11/04/2019	5	115	0.07	81.9	
CGUS 0004	Wednesday, 20 March 2019	12:43:23	10/04/2019	11/04/2019	5	115	0.07	81.9	
1139-156	Wednesday, 20 March 2019	12:46:15	10/04/2019	11/04/2019	5	115	0.07	91.5	
1139-158	Friday, 22 March 2019	12:49:54	10/04/2019	11/04/2019	5	115	0.08	81.9	
CGUS 0005	Friday, 22 March 2019	12:51:10	10/04/2019	11/04/2019	5	115	0.09	88.0	
813-14	Saturday, 23 March 2019	12:00:01	10/04/2019	11/04/2019	5	115	0.07	81.9	
1139-137	Saturday, 23 March 2019	12:21:02	10/04/2019	11/04/2019	5	115	0.07	91.5	
1138-138	Sunday, 24 March 2019	12:28:56	10/04/2019	11/04/2019	5	95	0.07	88.0	
CGUS 0006	Sunday, 24 March 2019	12:30:38	10/04/2019	11/04/2019	5	115	0.07	81.9	
CGUS 0007	Monday, 25 March 2019	12:30:00	10/04/2019	11/04/2019	5	115	0.08	88.0	
813-7	Tuesday, 26 March 2019	12:31:42	10/04/2019	11/04/2019	5	115	0.07	91.5	
1139-106A	Tuesday, 26 March 2019	12:31:32	10/04/2019	11/04/2019	5	115	0.07	91.5	
CGUS 0008	Wednesday, 27 March 2019	12:38:00	10/04/2019	11/04/2019	5	115	0.07	88.0	
CGUS 0009	Thursday, 28 March 2019	12:36:15	10/04/2019	11/04/2019	5	115	0.07	97.5	
813-2	Friday, 29 March 2019	12:28:04	10/04/2019	11/04/2019	5	115	0.07	84.0	
813-505	Friday, 29 March 2019	12:26:04	10/04/2019	11/04/2019	5	115	0.07	84.0	
CGUS 0010	Friday, 29 March 2019	12:38:30	10/04/2019	11/04/2019	5	115	0.07	81.9	
1138-111	Saturday, 30 March 2019	12:37:05	10/04/2019	11/04/2019	5	115	0.07	106.5	
CGUS 0011	Sunday, 31 March 2019	12:56:11	10/04/2019	11/04/2019	5	95	0.07	91.5	
1110-137	Sunday, 31 March 2019	12:56:11	10/04/2019	11/04/2019	5	95	0.07	91.5	
April									
1139-156	Monday, 1 April 2019	12:44:10	16/04/2019	20/05/2019	5	115	0.08	81.9	
CGUS 0012	Monday, 1 April 2019	12:46:00	16/04/2019	20/05/2019	5	115	0.07	81.9	
1138-105	Wednesday, 3 April 2019	12:16:41	16/04/2019	20/05/2019	5	115			

Code	Date	Time	Start	End	Day	Value	Rate	Rate
1101-125a	Wednesday, 1 May 2019	12:24:17	07/06/2019	20/06/2019	5	115	0.08	81.9
1110-140	Wednesday, 1 May 2019	12:26:42	07/06/2019	20/06/2019	5	115	0.07	81.5
CLUG 00 47	Wednesday, 1 May 2019	12:40:23	07/06/2019	20/06/2019	5	115	0.08	81.9
1113-10	Thursday, 2 May 2019	12:22:29	07/06/2019	20/06/2019	5	115	0.10	103.3
CLUG 00 49	Thursday, 2 May 2019	12:39:27	07/06/2019	20/06/2019	5	115	0.08	81.9
CLUG 00 50	Friday, 3 May 2019	06:15:43	07/06/2019	20/06/2019	1	95	0.07	81.9
CLUG 00 51	Saturday, 4 May 2019	06:00:24	07/06/2019	20/06/2019	1	95	0.08	81.9
1101-125b	Saturday, 4 May 2019	12:48:53	07/06/2019	20/06/2019	5	115	0.08	81.9
CLUG 00 52	Saturday, 4 May 2019	18:24:00	07/06/2019	20/06/2019	2	105	0.08	88.0
1113-15	Sunday, 5 May 2019	12:36:10	07/06/2019	20/06/2019	1	95	0.07	81.9
CLUG 00 53	Sunday, 5 May 2019	13:17:30	07/06/2019	20/06/2019	1	95	0.07	81.9
CLUG 00 54	Monday, 6 May 2019	06:05:30	07/06/2019	20/06/2019	1	95	0.08	81.9
1128-115	Monday, 6 May 2019	12:40:12	07/06/2019	20/06/2019	5	115	0.07	88.0
1119-155	Monday, 6 May 2019	12:41:48	07/06/2019	20/06/2019	5	115	0.07	88.0
CLUG 00 56	Tuesday, 7 May 2019	06:26:30	07/06/2019	20/06/2019	1	95	0.08	81.9
1113-16	Tuesday, 7 May 2019	12:31:54	07/06/2019	20/06/2019	5	115	0.08	88.0
CLUG 00 55	Tuesday, 7 May 2019	18:12:00	07/06/2019	20/06/2019	2	105	0.07	81.9
CLUG 00 57	Tuesday, 7 May 2019	18:12:00	07/06/2019	20/06/2019	2	105	0.07	81.9
CLUG 00 58	Wednesday, 8 May 2019	06:24:30	07/06/2019	20/06/2019	1	95	0.08	88.0
1118-200	Wednesday, 8 May 2019	12:36:53	07/06/2019	20/06/2019	5	115	0.08	84.0
CLUG 00 59	Wednesday, 8 May 2019	18:14:34	07/06/2019	20/06/2019	2	105	0.07	81.9
CLUG 00 60	Thursday, 9 May 2019	06:38:52	07/06/2019	20/06/2019	1	95	0.08	88.0
CLUG 00 61	Thursday, 9 May 2019	18:00:35	07/06/2019	20/06/2019	2	105	0.07	81.9
CLUG 00 62	Friday, 10 May 2019	06:05:20	07/06/2019	20/06/2019	1	95	0.08	81.9
1113-17	Friday, 10 May 2019	06:39:17	07/06/2019	20/06/2019	1	95	0.08	81.9
CLUG 00 63	Saturday, 11 May 2019	06:30:00	07/06/2019	20/06/2019	1	95	0.08	88.0
CLUG 00 64	Sunday, 12 May 2019	06:06:05	07/06/2019	20/06/2019	1	95	0.08	81.9
CLUG 00 65	Sunday, 12 May 2019	06:13:45	07/06/2019	20/06/2019	1	95	0.08	81.9
CLUG 00 66	Monday, 13 May 2019	06:16:30	07/06/2019	20/06/2019	1	95	0.08	81.9
1101-126	Monday, 13 May 2019	12:37:02	07/06/2019	20/06/2019	5	115	0.08	88.0
CLUG 00 67	Monday, 13 May 2019	18:02:00	07/06/2019	20/06/2019	2	105	0.08	81.9
CLUG 00 68	Tuesday, 14 May 2019	06:03:10	07/06/2019	20/06/2019	1	95	0.08	81.9
1119-164a	Tuesday, 14 May 2019	12:50:52	07/06/2019	20/06/2019	5	115	0.07	81.9
CLUG 00 69	Tuesday, 14 May 2019	18:00:00	07/06/2019	20/06/2019	2	105	0.08	81.9
CLUG 00 70	Wednesday, 15 May 2019	05:57:37	07/06/2019	20/06/2019	1	95	0.07	81.9
1119-154b	Wednesday, 15 May 2019	12:36:16	07/06/2019	20/06/2019	5	115	0.07	81.9
CLUG 00 71	Wednesday, 15 May 2019	18:16:15	07/06/2019	20/06/2019	2	105	0.08	81.9
CLUG 00 72	Thursday, 16 May 2019	06:14:35	07/06/2019	20/06/2019	1	95	0.08	81.9
1119-152	Thursday, 16 May 2019	12:35:49	07/06/2019	20/06/2019	5	115	0.07	81.9
CLUG 00 73	Friday, 17 May 2019	07:03:44	07/06/2019	20/06/2019	1	95	0.08	81.9
CLUG 00 74	Saturday, 18 May 2019	03:13:00	07/06/2019	20/06/2019	1	95	0.08	81.9
1110-141	Saturday, 18 May 2019	12:35:41	07/06/2019	20/06/2019	5	115	0.07	81.9
CLUG 00 75	Sunday, 19 May 2019	07:15:55	07/06/2019	20/06/2019	1	95	0.07	81.9
1110-142	Sunday, 19 May 2019	12:25:31	07/06/2019	20/06/2019	5	115	0.07	81.5
CLUG 00 76	Sunday, 19 May 2019	23:59:25	07/06/2019	20/06/2019	1	95	0.09	81.9
CLUG 00 77	Monday, 20 May 2019	12:30:00	07/06/2019	20/06/2019	2	105	0.08	81.9
CLUG 00 78	Tuesday, 21 May 2019	05:45:55	07/06/2019	20/06/2019	1	95	0.08	88.0
804-1A	Tuesday, 21 May 2019	12:30:39	07/06/2019	20/06/2019	5	115	0.08	88.0
CLUG 00 80	Wednesday, 22 May 2019	02:35:40	07/06/2019	20/06/2019	1	95	0.08	81.9
CLUG 00 81	Thursday, 23 May 2019	06:06:02	07/06/2019	20/06/2019	1	95	0.08	81.9
804-1B	Thursday, 23 May 2019	14:58:35	07/06/2019	20/06/2019	5	115	0.07	81.9
CLUG 00 82	Friday, 24 May 2019	18:06:55	07/06/2019	20/06/2019	2	105	0.07	81.9
CLUG 00 83	Saturday, 25 May 2019	05:59:10	07/06/2019	20/06/2019	1	95	0.07	81.9
804-1C	Saturday, 25 May 2019	10:33:21	07/06/2019	20/06/2019	5	115	0.07	81.5
CLUG 00 84	Sunday, 26 May 2019	18:26:51	07/06/2019	20/06/2019	2	105	0.08	81.9
CLUG 00 85	Sunday, 26 May 2019	05:59:10	07/06/2019	20/06/2019	1	95	0.08	81.9
CLUG 00 86	Sunday, 26 May 2019	16:57:05	07/06/2019	20/06/2019	5	115	0.08	81.9
CLUG 00 87	Monday, 27 May 2019	06:20:12	07/06/2019	20/06/2019	1	95	0.08	81.9
CLUG 00 88	Monday, 27 May 2019	16:15:00	07/06/2019	20/06/2019	5	115	0.07	81.9
CLUG 00 89	Tuesday, 28 May 2019	06:05:55	07/06/2019	20/06/2019	1	95	0.08	81.9
804-1D-2002	Tuesday, 28 May 2019	12:42:06	07/06/2019	20/06/2019	5	115	0.08	101.0
804-1B	Tuesday, 28 May 2019	12:42:36	07/06/2019	20/06/2019	5	115	0.08	101.0
CLUG 00 90	Tuesday, 28 May 2019	18:14:40	07/06/2019	20/06/2019	2	105	0.07	81.9
CLUG 00 91	Wednesday, 29 May 2019	06:00:00	07/06/2019	20/06/2019	1	95	0.08	81.9
804-2	Wednesday, 29 May 2019	12:38:32	07/06/2019	20/06/2019	5	115	0.08	104.9
CLUG 00 92	Wednesday, 29 May 2019	18:39:35	07/06/2019	20/06/2019	2	105	0.08	81.9
CLUG 00 93	Thursday, 30 May 2019	06:05:35	07/06/2019	20/06/2019	1	95	0.08	81.9
CLUG 00 94	Friday, 31 May 2019	05:17:10	07/06/2019	20/06/2019	1	95	0.08	88.0
804-4	Friday, 31 May 2019	11:12:03	07/06/2019	20/06/2019	5	115	0.08	88.0

Code	Date	Time	Start	End	Day	Value	Rate	Rate
CLUG 00 95	Saturday, 1 June 2019	03:20:48	05/07/2019	17/07/2019	1	95	0.08	81.9
804-4	Saturday, 1 June 2019	14:58:10	05/07/2019	17/07/2019	5	115	0.07	81.9
CLUG 00 96	Saturday, 1 June 2019	22:26:03	05/07/2019	17/07/2019	1	95	0.08	81.9
CLUG 00 97	Sunday, 2 June 2019	05:13:35	05/07/2019	17/07/2019	1	95	0.08	81.9
CLUG 00 98	Tuesday, 4 June 2019	03:45:00	05/07/2019	17/07/2019	1	95	0.07	81.9
804-7	Tuesday, 4 June 2019	12:28:17	05/07/2019	17/07/2019	5	115	0.08	98.8
CLUG 00 99	Thursday, 6 June 2019	12:30:00	05/07/2019	17/07/2019	2	105	0.08	81.9
CLUG 00 100	Wednesday, 5 June 2019	09:30:00	05/07/2019	17/07/2019	5	115	0.08	91.5
CLUG 00 101	Thursday, 6 June 2019	17:58:02	05/07/2019	17/07/2019	5	115	0.08	81.9
CLUG 00 102	Thursday, 6 June 2019	04:39:45	05/07/2019	17/07/2019	1	95	0.08	81.9
1119-151a	Thursday, 6 June 2019	12:39:34	05/07/2019	17/07/2019	5	115	0.07	81.9
CLUG 00 103	Thursday, 6 June 2019	17:45:55	05/07/2019	17/07/2019	5	115	0.07	81.9
CLUG 00 104	Friday, 7 June 2019	03:55:35	05/07/2019	17/07/2019	1	95	0.08	81.9
804-5	Friday, 7 June 2019	12:24:41	05/07/2019	17/07/2019	5	115	0.08	81.9
CLUG 00 105	Friday, 7 June 2019	15:29:25	05/07/2019	17/07/2019	5	115	0.07	81.9
CLUG 00 106	Saturday, 8 June 2019	03:24:40	05/07/2019	17/07/2019	1	95	0.08	81.9
1119-151b	Saturday, 8 June 2019	12:34:35	05/07/2019	17/07/2019	5	115	0.08	101.0
1101-533	Saturday, 8 June 2019	12:38:00	05/07/2019	17/07/2019	5	115	0.07	94.0
CLUG 00 107	Saturday, 8 June 2019	18:48:35	05/07/2019	17/07/2019	2	105	0.08	81.9
CLUG 00 107 Supp	Saturday, 8 June 2019	22:19:40	05/07/2019	17/07/2019	1	95	0.08	81.9
CLUG 00 108	Sunday, 9 June 2019	05:21:34	05/07/2019	17/07/2019	1	95	0.07	81.9
804-6	Sunday, 9 June 2019	12:43:42	05/07/2019	17/07/2019	5	115	0.11	88.0
CLUG 00 109	Sunday, 9 June 2019	18:03:20	05/07/2019	17/07/2019	1	95	0.08	81.9
CLUG 00 110	Monday, 10 June 2019	06:03:20	05/07/2019	17/07/2019	5	115	0.08	88.0
CLUG 00 111	Monday, 10 June 2019	16:05:00	05/07/2019	17/07/2019	2	105	0.08	81.9
CLUG 00 112	Monday, 11 June 2019	06:44:17	05/07/2019	17/07/2019	2	105	0.08	81.9
1108-554	Tuesday, 11 June 2019	12:46:05	05/07/2019	17/07/2019	5	115	0.07	88.0
1101-137	Tuesday, 11 June 2019	12:48:21	05/07/2019	17/07/2019	5	115	0.07	81.9
CLUG 00 113	Tuesday, 11 June 2019	17:15:00	05/07/2019	17/07/2019	5	115	0.07	81.9
CLUG 00 114	Wednesday, 12 June 2019	05:28:28	05/07/2019	17/07/2019	1	95	0.08	81.9
804-10	Wednesday, 12 June 2019	12:21:25	05/07/2019	17/07/2019	5	115	0.08	88.0
CLUG 00 115	Wednesday, 12 June 2019	16:50:20	05/07/2019	17/07/2019	5	115	0.07	81.9
CLUG 00 116	Thursday, 13 June 2019	03:03:35	05/07/2019	17/07/2019				

July									
CUG 00 151-1	Monday, 1 July 2019	06:09:15	12/08/2019	20/08/2019	1	95	0.08	81.9	
CUG 00 151	Monday, 1 July 2019	12:16:00	12/08/2019	20/08/2019	1	115	0.08	81.9	
CUG 00 152	Tuesday, 2 July 2019	06:18:30	12/08/2019	20/08/2019	1	95	0.08	81.9	
1092-134	Tuesday, 2 July 2019	12:33:27	12/08/2019	20/08/2019	1	115	0.08	88.0	
CUG 00 153	Tuesday, 2 July 2019	17:53:00	12/08/2019	20/08/2019	1	115	0.07	81.9	
CUG 00 154	Wednesday, 3 July 2019	05:28:32	12/08/2019	20/08/2019	1	95	0.08	81.9	
CUG 00 155	Wednesday, 3 July 2019	18:11:55	12/08/2019	20/08/2019	2	105	0.07	81.9	
CUG 00 156	Thursday, 4 July 2019	05:00:00	12/08/2019	20/08/2019	1	95	0.08	81.9	
CUG 00 157	Thursday, 4 July 2019	17:50:55	12/08/2019	20/08/2019	1	115	0.07	88.0	
CUG 00 158	Friday, 5 July 2019	05:59:00	12/08/2019	20/08/2019	1	95	0.07	81.9	
1092-150	Friday, 5 July 2019	13:09:54	12/08/2019	20/08/2019	1	95	0.07	88.0	
CUG 00 159	Friday, 5 July 2019	18:00:50	12/08/2019	20/08/2019	2	105	0.07	81.9	
CUG 00 160	Saturday, 6 July 2019	05:49:52	12/08/2019	20/08/2019	1	95	0.08	81.9	
CUG 00 161	Saturday, 6 July 2019	18:03:50	12/08/2019	20/08/2019	1	95	0.07	81.9	
CUG 00 162	Sunday, 7 July 2019	06:38:59	12/08/2019	20/08/2019	1	95	0.09	81.9	
CUG 00 163	Sunday, 7 July 2019	18:02:15	12/08/2019	20/08/2019	1	95	0.07	81.9	
CUG 00 164	Monday, 8 July 2019	07:47:03	12/08/2019	20/08/2019	1	115	0.07	81.9	
CUG 00 165	Monday, 8 July 2019	17:50:18	12/08/2019	20/08/2019	1	115	0.08	81.9	
CUG 00 166	Tuesday, 9 July 2019	02:02:30	12/08/2019	20/08/2019	1	95	0.08	81.9	
CUG 00 167	Tuesday, 9 July 2019	11:18:00	12/08/2019	20/08/2019	1	115	0.08	81.9	
CUG 00 168	Tuesday, 9 July 2019	21:13:20	12/08/2019	20/08/2019	1	95	0.08	81.9	
CUG 00 169	Wednesday, 10 July 2019	06:37:34	12/08/2019	20/08/2019	1	95	0.09	81.9	
786-5	Wednesday, 10 July 2019	10:08:44	12/08/2019	20/08/2019	1	115	0.09	95.9	
786-502	Wednesday, 10 July 2019	10:08:44	12/08/2019	20/08/2019	1	115	0.09	95.9	
CUG 00 169-1	Wednesday, 10 July 2019	17:18:08	12/08/2019	20/08/2019	1	115	0.07	81.9	
CUG 00 169-2	Thursday, 11 July 2019	05:15:00	12/08/2019	20/08/2019	1	95	0.09	88.0	
786-5	Thursday, 11 July 2019	12:39:32	12/08/2019	20/08/2019	1	115	0.07	91.5	
CUG 00 169-3	Thursday, 11 July 2019	18:29:00	12/08/2019	20/08/2019	2	105	0.07	81.9	
CUG 00 170	Friday, 12 July 2019	01:00:00	12/08/2019	20/08/2019	1	95	0.08	81.9	
786-503	Friday, 12 July 2019	12:32:20	12/08/2019	20/08/2019	1	115	0.07	107.0	
CUG 00 170-1	Friday, 12 July 2019	13:00:00	12/08/2019	20/08/2019	1	115	0.07	107.0	
CUG 00 171	Saturday, 13 July 2019	09:30:00	12/08/2019	20/08/2019	1	95	0.07	81.9	
CUG 00 172	Saturday, 13 July 2019	12:10:00	12/08/2019	20/08/2019	1	115	0.07	107.0	
CUG 00 173	Sunday, 14 July 2019	01:00:00	12/08/2019	20/08/2019	1	95	0.08	81.9	
786-7	Sunday, 14 July 2019	10:17:03	12/08/2019	20/08/2019	1	95	0.08	94.0	
CUG 00 174	Sunday, 14 July 2019	12:30:00	12/08/2019	20/08/2019	1	95	0.07	94.0	
CUG 00 175	Monday, 15 July 2019	01:05:00	12/08/2019	20/08/2019	1	95	0.08	88.0	
786-7	Monday, 15 July 2019	15:00:27	12/08/2019	20/08/2019	1	115	0.07	97.5	
CUG 00 175-1	Monday, 15 July 2019	20:30:00	12/08/2019	20/08/2019	2	105	0.08	81.9	
CUG 00 177	Tuesday, 16 July 2019	02:05:00	12/08/2019	20/08/2019	1	95	0.08	81.9	
CUG 00 176-1	Tuesday, 16 July 2019	06:15:00	12/08/2019	20/08/2019	1	95	0.09	81.9	
CUG 00 176	Tuesday, 16 July 2019	18:29:00	12/08/2019	20/08/2019	2	105	0.08	81.9	
CUG 00 178	Wednesday, 17 July 2019	02:30:00	12/08/2019	20/08/2019	1	95	0.08	81.9	
786-8	Wednesday, 17 July 2019	12:28:34	12/08/2019	20/08/2019	1	115	0.07	94.0	
CUG 00 179	Thursday, 18 July 2019	04:40:00	12/08/2019	20/08/2019	1	95	0.07	97.5	Localised environmental factors
786-10	Thursday, 18 July 2019	12:16:43	12/08/2019	20/08/2019	1	115	0.07	81.9	
CUG 00 180	Thursday, 18 July 2019	18:35:15	12/08/2019	20/08/2019	2	105	0.07	81.9	
CUG 00 180-1	Friday, 19 July 2019	06:30:00	12/08/2019	20/08/2019	1	95	0.08	88.0	
CUG 00 180-2	Friday, 19 July 2019	17:45:00	12/08/2019	20/08/2019	1	95	0.08	81.9	
786-8	Saturday, 20 July 2019	12:28:38	12/08/2019	20/08/2019	1	115	0.08	81.9	
CUG 00 181	Saturday, 20 July 2019	18:05:00	12/08/2019	20/08/2019	2	105	0.08	81.9	
1092-1498	Saturday, 20 July 2019	12:39:22	12/08/2019	20/08/2019	1	95	0.07	98.8	Localised environmental factors
CUG 00 184	Sunday, 21 July 2019	20:25:00	12/08/2019	20/08/2019	1	95	0.07	81.9	
CUG 00 187	Monday, 22 July 2019	17:50:00	12/08/2019	20/08/2019	1	115	0.08	81.9	
CUG 00 188	Tuesday, 23 July 2019	02:25:00	12/08/2019	20/08/2019	1	95	0.08	81.9	
1092-1498	Tuesday, 23 July 2019	12:40:29	12/08/2019	20/08/2019	1	115	0.07	95.9	
CUG 00 189	Tuesday, 23 July 2019	17:50:00	12/08/2019	20/08/2019	1	115	0.08	81.9	
CUG 00 190	Wednesday, 24 July 2019	06:00:00	12/08/2019	20/08/2019	1	95	0.08	81.9	
CUG 00 191	Thursday, 25 July 2019	04:40:00	12/08/2019	20/08/2019	1	95	0.08	81.9	
CUG 00 192	Thursday, 25 July 2019	18:24:00	12/08/2019	20/08/2019	2	105	0.07	81.9	
CUG 00 193	Friday, 26 July 2019	06:30:00	12/08/2019	20/08/2019	1	95	0.08	81.9	
1092-1489	Friday, 26 July 2019	12:43:30	12/08/2019	20/08/2019	1	115	0.08	81.9	
1088-158	Friday, 26 July 2019	18:08:53	12/08/2019	20/08/2019	1	115	0.08	88.0	
CUG 00 194	Friday, 26 July 2019	18:00:00	12/08/2019	20/08/2019	1	95	0.08	81.9	
CUG 00 195	Saturday, 27 July 2019	01:40:00	12/08/2019	20/08/2019	1	95	0.08	81.9	
CUG 00 196	Saturday, 27 July 2019	16:30:00	12/08/2019	20/08/2019	1	115	0.07	81.9	
CUG 00 197	Saturday, 27 July 2019	09:40:00	12/08/2019	20/08/2019	1	115	0.08	81.9	
786-2 Preliminary	Sunday, 28 July 2019	11:31:03	12/08/2019	20/08/2019	1	95	0.07	81.9	
ARZ-1	Sunday, 28 July 2019	11:31:03	12/08/2019	20/08/2019	1	95	0.07	81.9	
CUG 00 198	Sunday, 28 July 2019	18:00:00	12/08/2019	20/08/2019	1	95	0.07	81.9	
CUG 00 199	Monday, 29 July 2019	00:35:00	12/08/2019	20/08/2019	1	95	0.08	81.9	
786-3	Monday, 29 July 2019	11:22:33	12/08/2019	20/08/2019	1	95	0.07	88.0	
CUG 00 200	Monday, 29 July 2019	15:28:00	12/08/2019	20/08/2019	1	115	0.07	81.9	
CUG 00 201	Tuesday, 30 July 2019	02:30:00	12/08/2019	20/08/2019	1	95	0.08	81.9	
CUG 00 203	Wednesday, 31 July 2019	02:30:00	12/08/2019	20/08/2019	1	95	0.08	81.9	
CUG 00 203-1	Wednesday, 31 July 2019	17:29:00	12/08/2019	20/08/2019	1	115	0.07	81.9	

August									
CUG 00 203-2	Thursday, 1 August 2019	05:45:00	09/09/2019	20/09/2019	1	95	0.09	81.9	
786-504	Thursday, 1 August 2019	12:40:01	09/09/2019	20/09/2019	1	115	0.08	81.9	
CUG 00 204	Thursday, 1 August 2019	17:45:00	09/09/2019	20/09/2019	1	115	0.08	81.9	
CUG 00 205	Friday, 2 August 2019	04:30:00	09/09/2019	20/09/2019	1	95	0.09	81.9	
CUG 00 206	Friday, 2 August 2019	15:25:00	09/09/2019	20/09/2019	1	95	0.08	81.9	
CUG 00 207	Saturday, 3 August 2019	04:45:00	09/09/2019	20/09/2019	1	95	0.09	81.9	
786-506-507	Saturday, 3 August 2019	10:00:00	09/09/2019	20/09/2019	1	115	0.08	81.9	
CUG 00 208	Saturday, 3 August 2019	17:38:00	09/09/2019	20/09/2019	1	115	0.08	81.9	
CUG 00 209	Sunday, 4 August 2019	03:10:00	09/09/2019	20/09/2019	1	95	0.09	81.9	
CUG 00 210	Sunday, 4 August 2019	16:06:00	09/09/2019	20/09/2019	1	95	0.07	81.9	
CUG 00 211	Monday, 5 August 2019	02:45:00	09/09/2019	20/09/2019	1	95	0.08	81.9	
777-1	Monday, 5 August 2019	12:08:16	09/09/2019	20/09/2019	1	115	0.08	88.0	
CUG 00 212	Tuesday, 6 August 2019	15:35:00	09/09/2019	20/09/2019	1	115	0.07	81.9	
CUG 00 213	Tuesday, 6 August 2019	01:30:00	09/09/2019	20/09/2019	1	95	0.08	81.9	
786-5	Tuesday, 6 August 2019	09:36:24	09/09/2019	20/09/2019	1	115	0.09	88.0	
CUG 00 214	Tuesday, 6 August 2019	15:15:00	09/09/2019	20/09/2019	1	115	0.07	81.9	
CUG 00 215	Wednesday, 7 August 2019	02:45:00	09/09/2019	20/09/2019	1	95	0.08	81.9	
CUG 00 215	Wednesday, 7 August 2019	01:10:00	09/09/2019	20/09/2019	1	95	0.09	81.9	
786-6	Wednesday, 7 August 2019	09:20:27	09/09/2019	20/09/2019	1	115	0.07	81.9	
CUG 00 217	Wednesday, 7 August 2019	21:05:00	09/09/2019	20/09/2019	1	95	0.08	81.9	
786-7 Preliminary	Thursday, 8 August 2019	15:00:00	09/09/2019	20/09/2019	1	115	0.07	107.5	
CUG 00 218	Thursday, 8 August 2019	16:25:00	09/09/2019	20/09/2019	1	115	0.07	102.8	Localised environmental factors
CUG 00 219	Friday, 9 August 2019	06:25:00	09/09/2019	20/09/2019	1	95	0.07	81.9	
786-508	Friday, 9 August 2019	11:46:12	09/09/2019	20/09/2019	1	115	0.09	111.2	
786-7	Friday, 9 August 2019	11:46:12	09/09/2019	20/09/2019	1	115	0.09	111.1	
CUG 00 220	Friday, 9 August 2019	18:29:00	09/09/2019	20/09/2019	1	105	0.08	81.9	
CUG 00 221	Saturday, 10 August 2019	07:00:00	09/09/2019	20/09/2019	1	95	0.09	103.5	
786-509	Saturday, 10 August 2019	12:43:32	09/09/2019	20/09/2019	1	115	0.08	106.0	
CUG 00 222	Saturday, 10 August 2019	18:29:00	09/09/2019	20/09/2019	1	115	0.08	91.5	
CUG 00 221-A	Sunday, 11 August 2019	01:45:00	09/09/2019	20/09/2019	1	95	0.08	97.5	Localised environmental factors
CUG 00 221-B	Sunday, 11 August 2019	05:15:00	09/09/2019	20/09/2019	1	95	0.08	105.5	Localised environmental factors
CUG 00 224	Sunday, 11 August 2019	18:29:00	09/09/2019	20/09/2019	1	95	0.07	81.9	
CUG 00 225	Monday, 12 August 2019	07:30:00	09/09/2019	20/09/2019</					

Account	Date	Time	Start Date	End Date	Day	Rate	Rate	Rate
CUGS 00 263	Sunday, 1 September 2019	01:00:00	08/10/2019	18/10/2019	1	95	0.09	81.9
CUGS 00 264	Sunday, 1 September 2019	07:52:00	08/10/2019	18/10/2019	1	95	0.09	81.9
777.6	Sunday, 1 September 2019	11:07:58	08/10/2019	18/10/2019	1	95	0.08	81.9
CUGS 00 264-1	Sunday, 1 September 2019	17:55:00	08/10/2019	18/10/2019	1	95	0.08	81.9
CUGS 00 265	Monday, 2 September 2019	04:10:00	08/10/2019	18/10/2019	1	115	0.10	81.9
1065.566	Monday, 2 September 2019	12:23:40	08/10/2019	18/10/2019	1	115	0.10	81.9
CUGS 00 266	Monday, 2 September 2019	18:20:00	08/10/2019	18/10/2019	2	105	0.07	81.9
CUGS 00 267	Tuesday, 3 September 2019	04:15:00	08/10/2019	18/10/2019	1	95	0.09	81.9
CUGS 00 268	Tuesday, 3 September 2019	15:52:00	08/10/2019	18/10/2019	1	115	0.10	102.8
CUGS 00 269	Wednesday, 4 September 2019	01:40:00	08/10/2019	18/10/2019	1	95	0.12	81.9
1074.128	Wednesday, 4 September 2019	12:37:51	08/10/2019	18/10/2019	1	115	0.09	88.0
CUGS 00 270	Wednesday, 4 September 2019	17:30:00	08/10/2019	18/10/2019	1	115	0.09	81.9
CUGS 00 271	Thursday, 5 September 2019	15:40:00	08/10/2019	18/10/2019	1	115	0.10	88.0
CUGS 00 272	Friday, 6 September 2019	09:46:00	08/10/2019	18/10/2019	1	95	0.12	88.0
777.4.96	Friday, 6 September 2019	13:35:45	08/10/2019	18/10/2019	1	115	0.11	95.9
768	Friday, 6 September 2019	15:45:36	08/10/2019	18/10/2019	1	115	0.12	101.9
CUGS 00 274	Friday, 6 September 2019	16:00:00	08/10/2019	18/10/2019	1	115	0.12	91.9
CUGS 00 275	Saturday, 7 September 2019	07:00:00	08/10/2019	18/10/2019	1	115	0.12	94.0
CUGS 00 276	Saturday, 7 September 2019	18:10:00	08/10/2019	18/10/2019	2	105	0.12	95.9
CUGS 00 277	Sunday, 8 September 2019	03:30:00	08/10/2019	18/10/2019	1	95	0.13	94.0
CUGS 00 278	Sunday, 8 September 2019	16:37:12	08/10/2019	18/10/2019	1	95	0.12	94.0
CUGS 00 279	Monday, 9 September 2019	06:15:00	08/10/2019	18/10/2019	1	95	0.14	101.9
1074.135	Monday, 9 September 2019	12:26:52	08/10/2019	18/10/2019	1	115	0.13	100.0
CUGS 00 280	Monday, 9 September 2019	18:30:11	08/10/2019	18/10/2019	2	105	0.14	88.0
CUGS 00 281	Tuesday, 10 September 2019	09:30:00	08/10/2019	18/10/2019	1	115	0.14	88.0
CUGS 00 282	Tuesday, 10 September 2019	15:11:00	08/10/2019	18/10/2019	1	105	0.12	81.9
CUGS 00 283	Wednesday, 11 September 2019	04:56:53	08/10/2019	18/10/2019	1	95	0.14	88.0
106	Wednesday, 11 September 2019	16:41:23	08/10/2019	18/10/2019	1	115	0.11	81.9
CUGS 00 284	Wednesday, 11 September 2019	17:25:00	08/10/2019	18/10/2019	1	115	0.13	81.9
CUGS 00 285	Thursday, 12 September 2019	01:30:00	08/10/2019	18/10/2019	1	95	0.14	88.0
CUGS 00 285-2	Thursday, 12 September 2019	17:15:00	08/10/2019	18/10/2019	1	115	0.13	102.8
CUGS 00 286	Friday, 13 September 2019	07:45:00	08/10/2019	18/10/2019	1	115	0.13	88.0
768.2	Friday, 13 September 2019	10:22:14	08/10/2019	18/10/2019	1	115	0.11	81.9
108.4	Friday, 13 September 2019	14:28:14	08/10/2019	18/10/2019	1	115	0.15	81.9
CUGS 00 287	Friday, 13 September 2019	16:45:00	08/10/2019	18/10/2019	1	115	0.10	88.0
CUGS 00 288-1	Friday, 13 September 2019	22:45:00	08/10/2019	18/10/2019	1	95	0.12	81.9
CUGS 00 288	Saturday, 14 September 2019	11:40:00	08/10/2019	18/10/2019	1	115	0.10	94.0
CUGS 00 288	Saturday, 14 September 2019	12:15:00	08/10/2019	18/10/2019	1	115	0.10	88.0
CUGS 00 291	Sunday, 15 September 2019	16:45:00	08/10/2019	18/10/2019	1	95	0.10	88.0
CUGS 00 290	Sunday, 15 September 2019	22:45:00	08/10/2019	18/10/2019	1	95	0.13	81.9
CUGS 00 292	Monday, 16 September 2019	04:50:00	08/10/2019	18/10/2019	1	95	0.11	81.9
CUGS 00 293-2	Monday, 16 September 2019	11:49:00	08/10/2019	18/10/2019	1	115	0.10	101.9
108.5	Monday, 16 September 2019	12:31:12	08/10/2019	18/10/2019	1	115	0.10	88.0
CUGS 00 293	Monday, 16 September 2019	15:20:00	08/10/2019	18/10/2019	1	115	0.10	88.0
1065.567	Tuesday, 17 September 2019	10:52:50	08/10/2019	18/10/2019	1	115	0.13	95.9
CUGS 00 294	Tuesday, 17 September 2019	21:50:00	08/10/2019	18/10/2019	1	95	0.14	84.0
CUGS 00 295	Wednesday, 18 September 2019	06:30:00	08/10/2019	18/10/2019	1	95	0.14	88.0
CUGS 00 296	Wednesday, 18 September 2019	18:30:00	08/10/2019	18/10/2019	2	105	0.11	97.5
CUGS 00 297	Thursday, 19 September 2019	05:10:00	08/10/2019	18/10/2019	1	95	0.13	88.0
CUGS 00 298	Thursday, 19 September 2019	18:30:00	08/10/2019	18/10/2019	2	105	0.10	81.9
CUGS 00 299	Friday, 20 September 2019	06:20:00	08/10/2019	18/10/2019	1	95	0.12	81.9
1083.138	Friday, 20 September 2019	12:20:40	08/10/2019	18/10/2019	1	115	0.10	101.9
CUGS 00 300	Saturday, 21 September 2019	05:30:00	08/10/2019	18/10/2019	1	95	0.13	100.0
CUGS 00 301	Saturday, 21 September 2019	18:25:00	08/10/2019	18/10/2019	2	105	0.12	81.9
CUGS 00 302	Sunday, 22 September 2019	05:30:00	08/10/2019	18/10/2019	1	95	0.10	81.9
CUGS 00 303	Sunday, 22 September 2019	16:45:00	08/10/2019	18/10/2019	1	95	0.10	88.0
CUGS 00 304	Monday, 23 September 2019	03:30:00	08/10/2019	18/10/2019	1	95	0.14	81.9
CUGS 00 305	Monday, 23 September 2019	14:54:00	08/10/2019	18/10/2019	1	115	0.11	100.0
CUGS 00 306	Tuesday, 24 September 2019	04:09:00	08/10/2019	18/10/2019	1	95	0.14	88.0
CUGS 00 307	Tuesday, 24 September 2019	17:11:00	08/10/2019	18/10/2019	1	115	0.10	81.9
CUGS 00 308	Wednesday, 25 September 2019	05:30:00	08/10/2019	18/10/2019	1	95	0.13	81.9
CUGS 00 309	Wednesday, 25 September 2019	06:20:00	08/10/2019	18/10/2019	1	95	0.14	88.0
CUGS 00 310	Wednesday, 25 September 2019	16:00:00	08/10/2019	18/10/2019	1	115	0.10	81.9
CUGS 00 312	Thursday, 26 September 2019	06:20:00	08/10/2019	18/10/2019	1	95	0.13	88.0
769.1	Thursday, 26 September 2019	10:45:44	08/10/2019	18/10/2019	1	115	0.11	81.9
CUGS 00 311	Thursday, 26 September 2019	17:00:00	08/10/2019	18/10/2019	1	115	0.10	81.9
CUGS 00 311-3	Thursday, 26 September 2019	21:22:00	08/10/2019	18/10/2019	1	115	0.10	81.9
CUGS 00 312	Thursday, 26 September 2019	23:07:00	08/10/2019	18/10/2019	1	95	0.13	88.0
CUGS 00 313	Friday, 27 September 2019	05:30:00	08/10/2019	18/10/2019	1	95	0.13	88.0
CUGS 00 314	Friday, 27 September 2019	16:07:00	08/10/2019	18/10/2019	1	115	0.10	95.9
CUGS 00 315	Saturday, 28 September 2019	02:55:00	08/10/2019	18/10/2019	1	95	0.12	81.9
CUGS 00 316	Saturday, 28 September 2019	16:50:00	08/10/2019	18/10/2019	1	115	0.10	88.0
CUGS 00 317	Sunday, 29 September 2019	06:05:00	08/10/2019	18/10/2019	1	95	0.13	81.9
CUGS 00 318	Sunday, 29 September 2019	18:13:00	08/10/2019	18/10/2019	1	95	0.11	81.9
CUGS 00 319	Monday, 30 September 2019	05:25:00	08/10/2019	18/10/2019	1	95	0.10	88.0
CUGS 00 320	Monday, 30 September 2019	19:40:00	08/10/2019	18/10/2019	2	105	0.11	81.9

Localised environmental factors

Listed off due to updating results

Account	Date	Time	Start Date	End Date	Day	Rate	Rate	Rate
CUGS 00 321	Tuesday, 1 October 2019	05:10:00	11/11/2019	19/11/2019	1	95	0.14	88.0
CUGS 00 322	Tuesday, 1 October 2019	16:00:00	11/11/2019	19/11/2019	1	115	0.10	81.9
CUGS 00 323	Wednesday, 2 October 2019	11:45:00	11/11/2019	19/11/2019	1	115	0.09	88.0
764.1	Wednesday, 2 October 2019	12:30:55	11/11/2019	19/11/2019	1	115	0.11	91.5
836.1	Wednesday, 2 October 2019	13:42:50	11/11/2019	19/11/2019	1	115	0.11	88.0
CUGS 00 324	Wednesday, 2 October 2019	22:40:00	11/11/2019	19/11/2019	1	95	0.11	81.9
CUGS 00 325	Thursday, 3 October 2019	08:40:00	11/11/2019	19/11/2019	1	115	0.10	91.5
1083.137	Thursday, 3 October 2019	13:41:05	11/11/2019	19/11/2019	1	115	0.09	88.0
1074.126	Thursday, 3 October 2019	15:41:05	11/11/2019	19/11/2019	1	115	0.09	81.9
CUGS 00 326	Thursday, 3 October 2019	22:51:00	11/11/2019	19/11/2019	1	95	0.11	81.9
CUGS 00 327	Friday, 4 October 2019	10:30:00	11/11/2019	19/11/2019	1	115	0.11	81.9
CUGS 00 328	Friday, 4 October 2019	22:20:00	11/11/2019	19/11/2019	1	95	0.13	81.9
CUGS 00 329	Saturday, 5 October 2019	08:15:00	11/11/2019	19/11/2019	1	115	0.11	81.9
CUGS 00 330	Saturday, 5 October 2019	01:52:00	11/11/2019	19/11/2019	1	95	0.11	81.9
CUGS 00 331	Sunday, 6 October 2019	21:12:00	11/11/2019	19/11/2019	1	95	0.10	81.9
CUGS 00 332	Monday, 7 October 2019	08:45:00	11/11/2019	19/11/2019	1	115	0.13	88.0
CUGS 00 333	Monday, 7 October 2019	16:30:00	11/11/2019	19/11/2019	1	115	0.09	88.0
CUGS 00 334	Tuesday, 8 October 2019	09:40:00	11/11/2019	19/11/2019	1	95	0.12	81.9
1092.135	Tuesday, 8 October 2019	12:37:54	11/11/2019	19/11/2019	1	115	0.11	101.0
1110.149	Tuesday, 8 October 2019	17:37:54	11/11/2019	19/11/2019	1	115	0.11	101.0
1110.139	Wednesday, 9 October 2019	10:36:55	11/11/2019	19/11/2019	1	115	0.10	81.9
CUGS 00 335	Wednesday, 9 October 2019	17:05:50	11/11/2019	19/11/2019	1	115	0.11	81.9
CUGS 00 336	Wednesday, 9 October 2019	18:30:00	11/11/2019	19/11/2019	1	115	0.10	81.9
CUGS 00 337	Thursday, 10 October 2019	03:30:00	11/11/2019	19/11/2019	1	95	0.13	81.9
CUGS 00 338	Thursday, 10 October 2019	10:40:00	11/11/2019	19/11/2019	1	115	0.11	88.0
CUGS 00 339	Thursday, 10 October 2019	18:30:00	11/11/2019	19/11/2019	1	115	0.10	81.9
CUGS 00 340-2	Friday, 11 October 2019	05:30:00	11/11/2019	19/11/2019	1	95	0.12	81.9
1119.146	Friday, 11 October 2019	16:40:11	11/11/2019	19/11/2019	1	115	0.10	88.0
CUGS 00 340-1	Friday, 11 October 2019	18:00:00	11/11/2019	19/11/2019	1	115	0.13	88.0
CUGS 00 340-3	Friday, 11 October 2019	21:40:00	11/11/2019	19/11/2019	1	95	0.12	81.9
CUGS 00 341	Saturday, 12 October 2019	08:00:00	11/11/2019	19/11/2019	1	115	0.11	81.9
CUGS 00 341-2	Saturday, 12 October 2019	16:50:00	11/11/2019	19/11/2019	1	115	0.09	100.0
CUGS 00 342	Saturday, 12 October 2019	22:30:00	11/11/2019	19/11/2019	1	95	0.12	81.9
CUGS 00 343	Sunday, 13 October 2019	11:45:00	11/11/2019	19/11/2019	1	95	0.13	81.9
1074.127	Sunday, 13 October 2019	1						

CUIS ID	Date	Time	Start Date	End Date	Days	Rate	Rate	Rate	Notes
CUIS 00 381	Friday, 1 November 2019	06:22:00	06/12/2019	20/12/2019	1	95	0.11	81.9	
CUIS 00 382	Friday, 1 November 2019	11:45:00	06/12/2019	20/12/2019	1	95	0.10	81.9	
CUIS 00 383	Saturday, 2 November 2019	04:55:00	06/12/2019	20/12/2019	1	95	0.11	81.9	
CUIS 00 384	Saturday, 2 November 2019	12:44:28	06/12/2019	20/12/2019	1	115	0.10	104.2	Localised environmental factors
CUIS 00 385	Saturday, 2 November 2019	14:55:00	06/12/2019	20/12/2019	1	95	0.11	81.9	
CUIS 00 386	Saturday, 2 November 2019	18:30:00	06/12/2019	20/12/2019	2	105	0.10	81.9	
CUIS 00 385-1	Sunday, 3 November 2019	01:05:00	06/12/2019	20/12/2019	1	95	0.11	88.0	
CUIS 00 385-2	Sunday, 3 November 2019	05:45:00	06/12/2019	20/12/2019	1	95	0.11	88.0	
CUIS 00 385-3	Sunday, 3 November 2019	16:25:00	06/12/2019	20/12/2019	1	95	0.11	101.0	Localised Environmental Factors
CUIS 00 386	Sunday, 3 November 2019	21:50:00	06/12/2019	20/12/2019	1	95	0.11	81.9	
CUIS 00 387	Monday, 4 November 2019	01:05:00	06/12/2019	20/12/2019	1	115	0.11	81.9	
CUIS 00 388	Monday, 4 November 2019	07:42:00	06/12/2019	20/12/2019	1	115	0.12	81.9	
CUIS 00 387-2	Monday, 4 November 2019	08:45:00	06/12/2019	20/12/2019	1	115	0.11	81.9	
CUIS 00 387-3	Monday, 4 November 2019	12:34:05	06/12/2019	20/12/2019	1	115	0.11	81.9	
CUIS 00 387-4	Monday, 4 November 2019	14:55:00	06/12/2019	20/12/2019	1	115	0.10	88.8	
CUIS 00 389-2	Tuesday, 5 November 2019	05:56:00	06/12/2019	20/12/2019	1	115	0.11	81.9	
CUIS 00 389-3	Tuesday, 5 November 2019	12:13:00	06/12/2019	20/12/2019	1	115	0.11	81.9	
CUIS 00 387-5	Tuesday, 5 November 2019	14:04:21	06/12/2019	20/12/2019	1	115	0.11	81.9	
CUIS 00 389-4	Tuesday, 5 November 2019	18:00:00	06/12/2019	20/12/2019	1	115	0.11	88.0	
CUIS 00 390	Tuesday, 5 November 2019	21:41:00	06/12/2019	20/12/2019	1	95	0.11	81.9	
CUIS 00 391	Wednesday, 6 November 2019	06:00:00	06/12/2019	20/12/2019	1	95	0.11	81.9	
CUIS 00 392	Wednesday, 6 November 2019	20:30:00	06/12/2019	20/12/2019	1	95	0.11	88.0	
CUIS 00 393	Thursday, 7 November 2019	13:09:51	06/12/2019	20/12/2019	1	115	0.09	101.0	
CUIS 00 394	Thursday, 7 November 2019	13:09:51	06/12/2019	20/12/2019	1	115	0.10	101.0	
CUIS 00 395	Thursday, 7 November 2019	16:25:00	06/12/2019	20/12/2019	1	115	0.09	101.0	
CUIS 00 396	Friday, 8 November 2019	01:50:00	06/12/2019	20/12/2019	1	115	0.12	81.9	
CUIS 00 397	Friday, 8 November 2019	11:45:00	06/12/2019	20/12/2019	1	115	0.10	107.0	
CUIS 00 398-1	Friday, 8 November 2019	21:00:00	06/12/2019	20/12/2019	1	95	0.11	81.9	Localised Environmental Factors
CUIS 00 398-2	Saturday, 9 November 2019	06:00:00	06/12/2019	20/12/2019	1	95	0.11	81.9	
CUIS 00 399	Saturday, 9 November 2019	12:31:11	06/12/2019	20/12/2019	1	115	0.11	81.9	
CUIS 00 400	Saturday, 9 November 2019	11:15:00	06/12/2019	20/12/2019	1	115	0.11	101.0	
CUIS 00 401	Sunday, 10 November 2019	01:05:00	06/12/2019	20/12/2019	1	95	0.12	81.9	
CUIS 00 402	Sunday, 10 November 2019	09:10:00	06/12/2019	20/12/2019	1	95	0.11	88.0	
CUIS 00 403	Sunday, 10 November 2019	10:35:00	06/12/2019	20/12/2019	1	95	0.11	88.0	
CUIS 00 404	Sunday, 10 November 2019	20:30:00	06/12/2019	20/12/2019	1	95	0.11	81.9	
CUIS 00 405	Monday, 11 November 2019	01:50:00	06/12/2019	20/12/2019	1	95	0.11	81.9	
CUIS 00 406	Monday, 11 November 2019	13:35:00	06/12/2019	20/12/2019	1	115	0.09	88.0	
CUIS 00 407	Tuesday, 12 November 2019	04:05:00	06/12/2019	20/12/2019	1	95	0.11	81.9	
CUIS 00 408	Tuesday, 12 November 2019	12:43:23	06/12/2019	20/12/2019	1	115	0.10	115.9	Localised Environmental Factors
CUIS 00 409	Tuesday, 12 November 2019	12:43:23	06/12/2019	20/12/2019	1	115	0.10	115.9	Localised Environmental Factors
CUIS 00 410	Tuesday, 12 November 2019	14:23:13	06/12/2019	20/12/2019	1	115	0.10	115.9	Localised Environmental Factors
CUIS 00 411	Wednesday, 13 November 2019	00:01:00	06/12/2019	20/12/2019	1	95	0.12	81.9	Localised Environmental Factors
CUIS 00 412	Wednesday, 13 November 2019	14:30:00	06/12/2019	20/12/2019	1	115	0.10	88.8	
CUIS 00 413	Thursday, 14 November 2019	06:00:00	06/12/2019	20/12/2019	1	115	0.11	81.9	
CUIS 00 414	Thursday, 14 November 2019	18:08:00	06/12/2019	20/12/2019	2	105	0.10	81.9	
CUIS 00 415	Friday, 15 November 2019	06:20:00	06/12/2019	20/12/2019	1	95	0.12	81.9	
CUIS 00 416	Friday, 15 November 2019	13:01:44	06/12/2019	20/12/2019	1	95	0.12	81.9	
CUIS 00 417	Saturday, 16 November 2019	02:15:00	06/12/2019	20/12/2019	1	95	0.12	81.9	
CUIS 00 418	Saturday, 16 November 2019	18:00:00	06/12/2019	20/12/2019	2	105	0.10	88.0	
CUIS 00 419	Sunday, 17 November 2019	05:30:00	06/12/2019	20/12/2019	1	95	0.11	81.9	
CUIS 00 420	Monday, 18 November 2019	06:15:00	06/12/2019	20/12/2019	1	95	0.11	81.9	
CUIS 00 421	Monday, 18 November 2019	12:42:48	06/12/2019	20/12/2019	1	115	0.10	88.0	
CUIS 00 422	Monday, 18 November 2019	18:05:00	06/12/2019	20/12/2019	2	105	0.08	88.0	
CUIS 00 423	Tuesday, 19 November 2019	01:30:00	06/12/2019	20/12/2019	1	95	0.11	81.9	
CUIS 00 424	Tuesday, 19 November 2019	11:50:00	06/12/2019	20/12/2019	1	115	0.09	100.0	
CUIS 00 425	Wednesday, 20 November 2019	01:45:00	06/12/2019	20/12/2019	1	95	0.11	81.9	
CUIS 00 426	Thursday, 21 November 2019	06:15:00	06/12/2019	20/12/2019	1	95	0.12	81.9	
CUIS 00 427	Thursday, 21 November 2019	12:35:42	06/12/2019	20/12/2019	1	115	0.09	103.0	
CUIS 00 428	Thursday, 21 November 2019	12:35:42	06/12/2019	20/12/2019	1	115	0.09	103.0	
CUIS 00 429	Thursday, 21 November 2019	14:35:42	06/12/2019	20/12/2019	1	115	0.09	103.0	
CUIS 00 430	Friday, 22 November 2019	04:45:00	06/12/2019	20/12/2019	1	95	0.10	88.0	
CUIS 00 431	Friday, 22 November 2019	16:35:00	06/12/2019	20/12/2019	1	95	0.10	88.0	
CUIS 00 432	Saturday, 23 November 2019	01:55:00	06/12/2019	20/12/2019	1	95	0.12	81.9	
CUIS 00 433	Saturday, 23 November 2019	12:48:00	06/12/2019	20/12/2019	1	115	0.10	88.0	
CUIS 00 434	Saturday, 23 November 2019	21:05:00	06/12/2019	20/12/2019	1	115	0.10	81.9	
CUIS 00 435	Sunday, 24 November 2019	08:45:00	06/12/2019	20/12/2019	1	95	0.10	81.9	
CUIS 00 436	Sunday, 24 November 2019	12:28:44	06/12/2019	20/12/2019	1	95	0.09	88.0	
CUIS 00 437	Sunday, 24 November 2019	12:28:44	06/12/2019	20/12/2019	1	95	0.09	88.0	
CUIS 00 438	Sunday, 24 November 2019	17:35:00	06/12/2019	20/12/2019	1	95	0.09	88.0	
CUIS 00 439	Monday, 25 November 2019	04:05:00	06/12/2019	20/12/2019	1	95	0.09	88.0	
CUIS 00 440	Monday, 25 November 2019	15:39:16	06/12/2019	20/12/2019	1	115	0.11	81.9	
CUIS 00 441	Monday, 25 November 2019	14:25:00	06/12/2019	20/12/2019	1	115	0.09	81.9	
CUIS 00 442	Monday, 25 November 2019	21:20:00	06/12/2019	20/12/2019	1	115	0.11	81.9	
CUIS 00 443	Tuesday, 26 November 2019	10:05:00	06/12/2019	20/12/2019	1	115	0.10	88.8	
CUIS 00 444	Tuesday, 26 November 2019	12:21:33	06/12/2019	20/12/2019	1	115	0.10	107.0	
CUIS 00 445	Tuesday, 26 November 2019	20:55:00	06/12/2019	20/12/2019	1	95	0.11	81.9	
CUIS 00 446	Wednesday, 27 November 2019	06:00:00	06/12/2019	20/12/2019	2	105	0.12	81.9	
CUIS 00 447	Wednesday, 27 November 2019	12:31:20	06/12/2019	20/12/2019	1	115	0.10	88.0	
CUIS 00 448	Thursday, 28 November 2019	06:30:00	06/12/2019	20/12/2019	1	105	0.11	88.0	
CUIS 00 449	Thursday, 28 November 2019	11:25:00	06/12/2019	20/12/2019	1	115	0.11	88.0	
CUIS 00 450	Thursday, 28 November 2019	12:30:00	06/12/2019	20/12/2019	1	115	0.10	88.0	
CUIS 00 451	Thursday, 28 November 2019	12:36:14	06/12/2019	20/12/2019	1	115	0.11	88.0	
CUIS 00 452	Friday, 29 November 2019	12:05:00	06/12/2019	20/12/2019	1	115	0.09	88.0	
CUIS 00 453	Friday, 29 November 2019	18:30:00	06/12/2019	20/12/2019	1	115	0.09	81.9	
CUIS 00 454	Saturday, 30 November 2019	01:05:00	06/12/2019	20/12/2019	1	95	0.12	81.9	
CUIS 00 455	Saturday, 30 November 2019	13:35:17	06/12/2019	20/12/2019	1	115	0.10	101.8	
CUIS 00 456	Saturday, 30 November 2019	18:15:00	06/12/2019	20/12/2019	1	115	0.10	88.0	
CUIS 00 457	Saturday, 30 November 2019	23:40:00	06/12/2019	20/12/2019	1	95	0.12	81.9	
CUIS 00 458-1	Sunday, 1 December 2019	06:02:00	07/12/2019	17/01/2020	1	95	0.13	81.9	Localised environmental factors
CUIS 00 458-2	Sunday, 1 December 2019	12:48:50	07/12/2019	17/01/2020	1	95	0.10	101.0	Localised environmental factors
CUIS 00 459	Sunday, 1 December 2019	12:45:00	07/12/2019	17/01/2020	1	95	0.11	104.2	Localised environmental factors
CUIS 00 460	Sunday, 1 December 2019	18:00:00	07/12/2019	17/01/2020	1	95	0.11	81.9	
CUIS 00 461	Monday, 2 December 2019	01:25:00	07/12/2019	17/01/2020	1	95	0.13	81.9	
CUIS 00 462	Monday, 2 December 2019	06:23:00	07/12/2019	17/01/2020	1	95	0.12	81.9	
CUIS 00 463	Monday, 2 December 2019	18:30:00	07/12/2019	17/01/2020	1	95	0.11	81.9	
CUIS 00 464	Tuesday, 3 December 2019	01:30:00	07/12/2019	17/01/2020	1	95	0.12	81.9	
CUIS 00 465	Tuesday, 3 December 2019	11:00:00	07/12/2019	17/01/2020	1	115	0.11	88.0</	

Monitoring Point: BM02

Blast monitoring, Ambient overpressure and ground vibration peak particle velocity recorded to the south of ML1335 boundary

Blast Number	Day/Date	Time	Date Observed	Date Published	Trigger Threshold		BM02 at Blast Time		Comments
					Ground Vibration (mm/s)	Ambient Overpressure (dB(L))	Ground Vibration (mm/s)	Ambient Overpressure (dB(L))	
1146-106	Tuesday, 1 January 2019	12:36:21	06/02/2019	20/02/2019	5	95	0.14	91.5	
1146-105	Wednesday, 2 January 2019	12:34:35	06/02/2019	20/02/2019	5	115	0.14	97.5	
822-4	Thursday, 3 January 2019	12:22:26	06/02/2019	20/02/2019	5	115	0.16	91.5	
1146-98A	Friday, 4 January 2019	12:20:26	06/02/2019	20/02/2019	5	115	0.16	98.8	
821-20	Saturday, 5 January 2019	12:46:42	06/02/2019	20/02/2019	5	115	0.14	97.5	
822-603-502B	Saturday, 5 January 2019	12:46:42	06/02/2019	20/02/2019	5	115	0.14	103.5	
822-604	Sunday, 6 January 2019	08:02:37	06/02/2019	20/02/2019	1	95	0.14	97.5	Localised environmental factors
1146-107	Sunday, 6 January 2019	13:05:55	06/02/2019	20/02/2019	1	95	0.13	97.5	Localised environmental factors
821-9	Monday, 7 January 2019	13:03:46	06/02/2019	20/02/2019	5	115	0.14	97.5	
1137-102	Tuesday, 8 January 2019	12:38:41	06/02/2019	20/02/2019	5	115	0.13	102.0	
822-115-16	Thursday, 10 January 2019	12:36:21	06/02/2019	20/02/2019	5	115	0.15	91.5	
1138-101	Friday, 11 January 2019	12:36:28	06/02/2019	20/02/2019	5	115	0.13	97.5	
1089-135	Monday, 14 January 2019	12:32:02	06/02/2019	20/02/2019	5	115	0.12	102.0	
1137-101	Tuesday, 15 January 2019	12:33:32	06/02/2019	20/02/2019	1	115	0.14	94.0	
1083-134	Wednesday, 16 January 2019	12:32:56	06/02/2019	20/02/2019	5	115	0.16	91.5	
1137-04	Thursday, 17 January 2019	12:33:15	06/02/2019	20/02/2019	5	115	0.14	101.0	
822-16	Saturday, 19 January 2019	12:25:49	06/02/2019	20/02/2019	5	115	0.19	91.5	
1146-93-84	Saturday, 19 January 2019	12:57:35	06/02/2019	20/02/2019	5	115	0.14	88.0	
821-15	Monday, 21 January 2019	12:29:40	06/02/2019	20/02/2019	5	115	0.14	91.5	
822-15	Monday, 21 January 2019	12:29:40	06/02/2019	20/02/2019	5	115	0.14	91.5	
1137-82-93	Monday, 21 January 2019	12:52:41	06/02/2019	20/02/2019	5	115	0.14	88.8	
1137-100	Tuesday, 22 January 2019	12:34:57	06/02/2019	20/02/2019	5	115	0.16	98.8	
822-14	Wednesday, 23 January 2019	12:29:09	06/02/2019	20/02/2019	5	115	0.14	102.8	
1146-103	Thursday, 24 January 2019	12:47:18	06/02/2019	20/02/2019	5	115	0.13	91.5	
1146-105	Friday, 25 January 2019	12:39:43	06/02/2019	20/02/2019	5	115	0.15	101.0	
1146-88	Saturday, 26 January 2019	15:14:58	06/02/2019	20/02/2019	5	115	0.14	91.5	
1083-116	Monday, 29 January 2019	11:00:12	06/02/2019	20/02/2019	1	95	0.13	94.0	
1137-103	Monday, 29 January 2019	11:00:12	06/02/2019	20/02/2019	1	95	0.12	94.0	
822-20	Wednesday, 30 January 2019	15:08:16	06/02/2019	20/02/2019	5	115	0.20	109.2	
822-4	Wednesday, 30 January 2019	15:08:16	06/02/2019	20/02/2019	5	115	0.20	109.2	
822-13	Wednesday, 30 January 2019	15:08:16	06/02/2019	20/02/2019	5	115	0.20	109.2	
FEBRUARY									
1137-91-114	Friday, 1 February 2019	15:20:04	08/02/2019	20/02/2019	5	115	0.13	91.5	
1137-105	Monday, 4 February 2019	13:31:02	08/02/2019	20/02/2019	5	115	0.14	91.5	
1138-102	Monday, 4 February 2019	13:31:02	08/02/2019	20/02/2019	5	115	0.14	88.0	
1137-95	Friday, 8 February 2019	12:34:55	08/02/2019	20/02/2019	5	115	0.14	104.8	
822-12	Friday, 8 February 2019	13:07:18	08/02/2019	20/02/2019	5	115	0.13	97.5	
822-7	Friday, 8 February 2019	13:07:18	08/02/2019	20/02/2019	5	115	0.13	97.5	
1137-113	Saturday, 9 February 2019	15:45:17	08/02/2019	20/02/2019	5	115	-	-	Unit office
1139-135	Sunday, 10 February 2019	15:15:03	08/02/2019	20/02/2019	5	95	0.12	88.0	Unit office
822-17	Monday, 11 February 2019	12:42:01	08/02/2019	20/02/2019	5	115	0.14	91.5	
1137-110-111	Wednesday, 13 February 2019	12:40:31	08/02/2019	20/02/2019	5	115	0.14	91.5	
1137-99	Wednesday, 13 February 2019	12:40:31	08/02/2019	20/02/2019	5	115	0.14	94.0	
822-18	Thursday, 14 February 2019	12:35:04	08/02/2019	20/02/2019	5	115	0.12	91.5	
1137-51	Thursday, 14 February 2019	12:35:04	08/02/2019	20/02/2019	5	115	0.12	91.5	
1101-532	Friday, 15 February 2019	12:41:19	08/02/2019	20/02/2019	5	115	0.12	95.9	
1138-108	Friday, 15 February 2019	12:46:10	08/02/2019	20/02/2019	5	115	0.14	91.5	
822-19	Monday, 18 February 2019	12:45:56	08/02/2019	20/02/2019	5	115	0.14	101.9	
1101-123	Monday, 18 February 2019	13:12:25	08/02/2019	20/02/2019	5	115	0.14	102.8	
813-603-202	Friday, 22 February 2019	12:36:24	08/02/2019	20/02/2019	5	115	0.14	91.5	Unit office
813-1	Friday, 22 February 2019	12:36:24	08/02/2019	20/02/2019	5	115	-	-	Unit office
1137-97-98	Saturday, 23 February 2019	15:31:19	08/02/2019	20/02/2019	5	115	-	-	Unit office
1137-109	Saturday, 23 February 2019	15:31:19	08/02/2019	20/02/2019	5	115	-	-	Unit office
1101-124	Saturday, 23 February 2019	16:02:15	08/02/2019	20/02/2019	5	115	-	-	Unit office
1074-121	Monday, 25 February 2019	12:40:25	08/02/2019	20/02/2019	5	115	0.14	101.0	
1137-112	Tuesday, 26 February 2019	12:35:02	08/02/2019	20/02/2019	5	115	-	-	Unit office
813-503-504	Wednesday, 27 February 2019	12:41:40	08/02/2019	20/02/2019	5	115	-	-	Unit office
1138-122	Wednesday, 27 February 2019	12:49:58	08/02/2019	20/02/2019	5	115	-	-	Unit office
1137-112	Thursday, 28 February 2019	12:35:07	08/02/2019	20/02/2019	5	115	-	-	Unit office
MARCH									
813-3	Saturday, 2 March 2019	12:38:50	10/02/2019	11/04/2019	5	115	-	-	Unit office
1137-108	Sunday, 3 March 2019	12:37:10	10/02/2019	11/04/2019	1	95	-	-	Unit office
813-506A	Monday, 4 March 2019	11:04:55	10/02/2019	11/04/2019	5	115	-	-	Unit office
1138-104	Monday, 4 March 2019	11:04:55	10/02/2019	11/04/2019	5	115	-	-	Unit office
1137-107	Tuesday, 5 March 2019	12:28:10	10/02/2019	11/04/2019	5	115	-	-	Unit office
1138-120	Thursday, 7 March 2019	12:39:29	10/02/2019	11/04/2019	5	115	-	-	Unit office
813-5	Friday, 8 March 2019	12:30:07	10/02/2019	11/04/2019	5	115	0.12	88.0	
1139-110	Saturday, 9 March 2019	12:37:15	10/02/2019	11/04/2019	1	95	0.16	91.5	
1138-119	Tuesday, 12 March 2019	12:41:40	10/02/2019	11/04/2019	5	115	0.14	106.0	
1139-136	Tuesday, 12 March 2019	12:41:40	10/02/2019	11/04/2019	5	115	0.16	106.0	
1110-136	Wednesday, 13 March 2019	12:28:59	10/02/2019	11/04/2019	5	115	0.15	91.5	
813-6	Friday, 15 March 2019	12:36:51	10/02/2019	11/04/2019	5	115	0.17	91.5	
1139-139	Saturday, 16 March 2019	12:20:26	10/02/2019	11/04/2019	5	115	0.16	91.5	
813-11	Saturday, 16 March 2019	12:20:26	10/02/2019	11/04/2019	5	115	0.15	108.0	
813-12	Monday, 18 March 2019	12:41:36	10/02/2019	11/04/2019	5	115	0.16	106.0	
813-13	Monday, 18 March 2019	12:44:44	10/02/2019	11/04/2019	5	115	0.12	107.5	
1139-515	Monday, 18 March 2019	12:54:44	10/02/2019	11/04/2019	5	115	0.12	107.5	
813-6	Wednesday, 20 March 2019	12:33:47	10/02/2019	11/04/2019	5	115	0.16	88.0	
813-604	Wednesday, 20 March 2019	12:43:13	10/02/2019	11/04/2019	5	115	0.16	88.0	
1139-516A	Wednesday, 20 March 2019	12:46:15	10/02/2019	11/04/2019	5	115	0.13	91.5	
1139-516B	Friday, 22 March 2019	12:20:26	10/02/2019	11/04/2019	5	115	0.12	94.0	
813-14	Friday, 22 March 2019	12:20:26	10/02/2019	11/04/2019	5	115	0.15	91.5	
813-14	Saturday, 23 March 2019	12:20:26	10/02/2019	11/04/2019	5	115	0.12	91.5	
1139-137	Saturday, 23 March 2019	12:23:02	10/02/2019	11/04/2019	5	115	0.12	91.5	
1139-138	Sunday, 24 March 2019	12:28:56	10/02/2019	11/04/2019	1	95	0.15	94.0	
813-14	Sunday, 24 March 2019	12:30:38	10/02/2019	11/04/2019	1	95	0.12	91.5	
813-607	Monday, 25 March 2019	12:30:08	10/02/2019	11/04/2019	5	115	0.12	98.8	
813-7	Tuesday, 26 March 2019	12:31:32	10/02/2019	11/04/2019	5	115	0.15	94.0	
813-606-507	Tuesday, 26 March 2019	12:31:32	10/02/2019	11/04/2019	5	115	0.15	94.0	
813-608	Wednesday, 27 March 2019	12:38:00	10/02/2019	11/04/2019	5	115	0.12	91.5	
813-609	Thursday, 28 March 2019	12:36:15	10/02/2019	11/04/2019	5	115	0.18	88.0	
813-2	Friday, 29 March 2019	12:26:04	10/02/2019	11/04/2019	5	115	0.15	95.9	
813-605	Friday, 29 March 2019	12:26:04	10/02/2019	11/04/2019	5	115	0.15	91.5	
813-601	Friday, 29 March 2019	12:38:30	10/02/2019	11/04/2019	5	115	0.12	95.9	
1138-111	Saturday, 30 March 2019	12:37:05	10/02/2019	11/04/2019	5	115	0.14	106.5	
813-6011	Sunday, 31 March 2019	12:56:11	10/02/2019	11/04/2019	1	95	0.16	91.5	
1110-137	Sunday, 31 March 2019	12:56:11	10/02/2019	11/04/2019	1	95	0.18	95.9	Likely related to blasting activity.
April									
1139-516	Monday, 1 April 2019	15:44:10	16/04/2019	20/05/2019	5	115	0.13	91.5	
813-602-12	Monday, 1 April 2019	15:46:00	16/04/2019	20					

July									
CUG 00 151-1	Monday, 1 July 2019	06:09:15	12/08/2019	20/08/2019	1	95	0.14	88.0	
CUG 00 151	Monday, 1 July 2019	12:16:00	12/08/2019	20/08/2019	1	115	0.13	88.0	
CUG 00 152	Tuesday, 2 July 2019	06:18:30	12/08/2019	20/08/2019	1	95	0.14	88.0	
1092-134	Tuesday, 2 July 2019	12:33:27	12/08/2019	20/08/2019	1	115	0.16	88.0	
CUG 00 153	Tuesday, 2 July 2019	17:53:00	12/08/2019	20/08/2019	1	115	0.13	88.0	
CUG 00 154	Wednesday, 3 July 2019	05:28:32	12/08/2019	20/08/2019	1	95	0.14	88.0	
CUG 00 155	Wednesday, 3 July 2019	18:11:55	12/08/2019	20/08/2019	2	105	0.13	88.0	
CUG 00 156	Thursday, 4 July 2019	05:00:00	12/08/2019	20/08/2019	1	95	0.14	88.0	
CUG 00 157	Thursday, 4 July 2019	17:50:45	12/08/2019	20/08/2019	1	115	0.12	88.0	
CUG 00 158	Friday, 5 July 2019	05:59:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
1092-150	Friday, 5 July 2019	13:09:54	12/08/2019	20/08/2019	1	115	0.13	88.0	
CUG 00 159	Friday, 5 July 2019	18:00:50	12/08/2019	20/08/2019	2	105	0.12	88.0	
CUG 00 160	Saturday, 6 July 2019	05:49:32	12/08/2019	20/08/2019	1	95	0.14	88.0	
CUG 00 161	Saturday, 6 July 2019	18:03:50	12/08/2019	20/08/2019	1	105	0.13	88.0	
CUG 00 162	Sunday, 7 July 2019	06:38:59	12/08/2019	20/08/2019	1	95	0.14	88.0	
CUG 00 163	Sunday, 7 July 2019	18:02:15	12/08/2019	20/08/2019	1	95	0.12	88.0	
CUG 00 164	Monday, 8 July 2019	07:47:03	12/08/2019	20/08/2019	1	115	0.13	88.0	
CUG 00 165	Monday, 8 July 2019	17:50:18	12/08/2019	20/08/2019	1	115	0.12	88.0	
CUG 00 166	Tuesday, 9 July 2019	02:02:30	12/08/2019	20/08/2019	1	95	0.14	88.0	
CUG 00 167	Tuesday, 9 July 2019	11:18:00	12/08/2019	20/08/2019	1	115	0.13	88.0	
CUG 00 168	Tuesday, 9 July 2019	21:13:20	12/08/2019	20/08/2019	1	95	0.13	88.0	
CUG 00 169	Wednesday, 10 July 2019	06:37:34	12/08/2019	20/08/2019	1	95	0.13	88.0	
786-5	Wednesday, 10 July 2019	10:08:44	12/08/2019	20/08/2019	1	115	0.21	91.5	
786-502	Wednesday, 10 July 2019	10:08:44	12/08/2019	20/08/2019	1	115	0.21	91.5	
CUG 00 169-1	Wednesday, 10 July 2019	17:18:08	12/08/2019	20/08/2019	1	115	0.13	88.0	
CUG 00 169-2	Thursday, 11 July 2019	05:15:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
786-5	Thursday, 11 July 2019	12:39:32	12/08/2019	20/08/2019	1	115	0.14	88.0	
CUG 00 169-3	Thursday, 11 July 2019	18:29:00	12/08/2019	20/08/2019	2	105	0.14	88.0	
CUG 00 170	Friday, 12 July 2019	01:00:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
786-503	Friday, 12 July 2019	13:32:20	12/08/2019	20/08/2019	1	115	0.12	102.8	
CUG 00 170-1	Friday, 12 July 2019	18:00:00	12/08/2019	20/08/2019	1	115	0.21	100.0	
CUG 00 171	Saturday, 13 July 2019	09:30:00	12/08/2019	20/08/2019	1	95	0.13	100.0	Localised environmental factors
CUG 00 172	Saturday, 13 July 2019	12:10:00	12/08/2019	20/08/2019	1	115	0.13	107.5	
CUG 00 173	Sunday, 14 July 2019	01:00:00	12/08/2019	20/08/2019	1	95	0.12	88.0	
786-1	Sunday, 14 July 2019	19:17:03	12/08/2019	20/08/2019	1	95	0.15	94.0	
CUG 00 174	Sunday, 14 July 2019	12:30:00	12/08/2019	20/08/2019	1	95	0.12	97.5	
CUG 00 175	Monday, 15 July 2019	12:05:00	12/08/2019	20/08/2019	1	115	0.18	95.8	Localised environmental factors
786-7	Monday, 15 July 2019	15:00:37	12/08/2019	20/08/2019	1	115	0.14	97.5	
CUG 00 175-1	Monday, 15 July 2019	20:30:00	12/08/2019	20/08/2019	2	105	0.13	88.0	
CUG 00 177	Tuesday, 16 July 2019	05:05:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
CUG 00 176-1	Tuesday, 16 July 2019	06:15:00	12/08/2019	20/08/2019	1	95	0.16	88.0	
CUG 00 176	Tuesday, 16 July 2019	18:29:00	12/08/2019	20/08/2019	2	105	0.13	94.0	
CUG 00 178	Wednesday, 17 July 2019	06:30:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
786-8	Wednesday, 17 July 2019	12:28:34	12/08/2019	20/08/2019	1	115	0.14	94.0	
CUG 00 179	Thursday, 18 July 2019	04:40:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
786-10	Thursday, 18 July 2019	17:16:43	12/08/2019	20/08/2019	1	115	0.13	88.0	
CUG 00 180	Thursday, 18 July 2019	18:35:15	12/08/2019	20/08/2019	2	105	0.13	88.0	
CUG 00 180-1	Friday, 19 July 2019	06:30:00	12/08/2019	20/08/2019	1	95	0.14	88.0	
CUG 00 180-2	Friday, 19 July 2019	17:45:00	12/08/2019	20/08/2019	1	115	0.13	88.0	
786-8	Saturday, 20 July 2019	12:28:38	12/08/2019	20/08/2019	1	115	0.13	88.0	
CUG 00 181	Saturday, 20 July 2019	18:05:00	12/08/2019	20/08/2019	2	105	0.12	88.0	
1092-1498	Saturday, 20 July 2019	12:39:22	12/08/2019	20/08/2019	1	115	0.12	94.0	
CUG 00 184	Sunday, 21 July 2019	20:25:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
CUG 00 187	Monday, 22 July 2019	17:50:00	12/08/2019	20/08/2019	1	115	0.16	88.0	
CUG 00 188	Tuesday, 23 July 2019	02:25:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
1092-1498	Tuesday, 23 July 2019	12:40:29	12/08/2019	20/08/2019	1	115	0.14	95.9	
CUG 00 189	Tuesday, 23 July 2019	17:50:00	12/08/2019	20/08/2019	1	115	0.12	88.0	
CUG 00 190	Wednesday, 24 July 2019	06:00:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
CUG 00 191	Thursday, 25 July 2019	04:40:00	12/08/2019	20/08/2019	1	95	0.14	81.8	
CUG 00 192	Thursday, 25 July 2019	18:24:00	12/08/2019	20/08/2019	2	105	0.12	88.0	
CUG 00 193	Friday, 26 July 2019	06:30:00	12/08/2019	20/08/2019	1	95	0.14	88.0	
1092-1489	Friday, 26 July 2019	12:43:30	12/08/2019	20/08/2019	1	115	0.14	88.0	
1088-158	Friday, 26 July 2019	18:08:53	12/08/2019	20/08/2019	1	115	0.16	88.0	
CUG 00 194	Friday, 26 July 2019	18:00:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
CUG 00 195	Saturday, 27 July 2019	05:40:00	12/08/2019	20/08/2019	1	95	0.14	81.8	
CUG 00 196	Saturday, 27 July 2019	16:30:00	12/08/2019	20/08/2019	1	115	0.12	88.0	
CUG 00 197	Saturday, 27 July 2019	06:40:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
786-2 Preliminary	Sunday, 28 July 2019	13:31:03	12/08/2019	20/08/2019	1	95	0.12	88.0	
876-2 Preliminary	Sunday, 28 July 2019	18:31:03	12/08/2019	20/08/2019	1	95	0.12	88.0	
CUG 00 198	Sunday, 28 July 2019	18:00:00	12/08/2019	20/08/2019	1	95	0.12	88.0	
CUG 00 199	Monday, 29 July 2019	00:35:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
786-3	Monday, 29 July 2019	11:22:33	12/08/2019	20/08/2019	1	115	0.13	88.0	
CUG 00 200	Monday, 29 July 2019	18:28:00	12/08/2019	20/08/2019	1	115	0.13	88.0	
CUG 00 201	Tuesday, 30 July 2019	02:30:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
CUG 00 203	Wednesday, 31 July 2019	03:30:00	12/08/2019	20/08/2019	1	95	0.18	81.8	
CUG 00 203-1	Wednesday, 31 July 2019	17:29:00	12/08/2019	20/08/2019	1	115	0.12	88.0	

August									
CUG 00 203-2	Thursday, 1 August 2019	05:45:00	09/09/2019	20/09/2019	1	95	0.14	88.0	
786-504	Thursday, 1 August 2019	12:40:01	09/09/2019	20/09/2019	1	115	0.15	94.0	
CUG 00 204	Thursday, 1 August 2019	17:45:00	09/09/2019	20/09/2019	1	115	0.12	88.0	
CUG 00 205	Friday, 2 August 2019	04:30:00	09/09/2019	20/09/2019	1	95	0.14	88.0	
CUG 00 206	Friday, 2 August 2019	15:25:00	09/09/2019	20/09/2019	1	95	0.13	88.0	
CUG 00 207	Saturday, 3 August 2019	04:45:00	09/09/2019	20/09/2019	1	95	0.13	88.0	
786-506-507	Saturday, 3 August 2019	10:00:00	09/09/2019	20/09/2019	1	115	0.13	88.0	
CUG 00 208	Saturday, 3 August 2019	17:38:00	09/09/2019	20/09/2019	1	115	0.15	81.8	
CUG 00 209	Sunday, 4 August 2019	03:10:00	09/09/2019	20/09/2019	1	95	0.14	88.0	
CUG 00 210	Sunday, 4 August 2019	16:06:00	09/09/2019	20/09/2019	1	95	0.12	88.0	
CUG 00 211	Monday, 5 August 2019	03:45:00	09/09/2019	20/09/2019	1	95	0.14	88.0	
777-1	Monday, 5 August 2019	12:08:16	09/09/2019	20/09/2019	1	115	0.18	88.0	
CUG 00 212	Monday, 5 August 2019	15:35:00	09/09/2019	20/09/2019	1	115	0.12	88.0	
CUG 00 213	Tuesday, 6 August 2019	01:30:00	09/09/2019	20/09/2019	1	95	0.13	88.0	
786-5	Tuesday, 6 August 2019	09:36:24	09/09/2019	20/09/2019	1	115	0.13	88.0	
CUG 00 214	Tuesday, 6 August 2019	15:15:00	09/09/2019	20/09/2019	1	115	0.11	88.0	
CUG 00 215	Wednesday, 7 August 2019	02:45:00	09/09/2019	20/09/2019	1	95	0.14	88.0	
786-6	Wednesday, 7 August 2019	09:20:27	09/09/2019	20/09/2019	1	115	0.13	88.0	
CUG 00 217	Wednesday, 7 August 2019	21:05:00	09/09/2019	20/09/2019	1	95	0.13	88.0	
786-7 Preliminary	Thursday, 8 August 2019	15:00:00	09/09/2019	20/09/2019	1	115	0.13	103.5	
CUG 00 218	Thursday, 8 August 2019	16:25:00	09/09/2019	20/09/2019	1	115	0.13	102.2	
CUG 00 219	Friday, 9 August 2019	06:25:00	09/09/2019	20/09/2019	1	95	0.13	88.0	
786-508	Friday, 9 August 2019	11:46:12	09/09/2019	20/09/2019	1	115	0.14	103.5	
786-7	Friday, 9 August 2019	11:46:12	09/09/2019	20/09/2019	1	115	0.14	102.8	
CUG 00 220	Friday, 9 August 2019	18:29:00	09/09/2019	20/09/2019	1	105	0.13	88.0	
CUG 00 221	Saturday, 10 August 2019	07:00:00	09/09/2019	20/09/2019	1	95	0.13	95.9	
786-509	Saturday, 10 August 2019	12:43:23	09/09/2019	20/09/2019	1	115	0.13	100.0	
CUG 00 222	Saturday, 10 August 2019	18:29:00	09/09/2019	20/09/2019	1	115	0.13	95.9	
CUG 00 221-A	Sunday, 11 August 2019	01:45:00	09/09/2019	20/09/2019	1	95	0.14	94.0	
CUG 00 222-A	Sunday, 11 August 2019	05:15:00	09/09/2019	20/09/2019	1	95	0.12	107.8	
CUG 00 224	Sunday, 11 August 2019	18:29:00	09/09/2019	20/09/2019	1	95	0.13	88.0	Localised environmental factors
CUG 00 225	Monday, 12 August 2019	07:30:00	09/09/2019	20/09/2019	1	95	0.14	88.0	
786-8	Monday, 12 August 2019	18:18:15	09/09/2019	20/09/2019	1	115	0.13		

Account	Day	Start Date	End Date	Start Time	End Time	Day	Rate	Rate	Rate	Notes
CGUS 00 263	Sunday	1 September 2019	01:00:00	08/10/2019	18/10/2019	1	95	0.13	88.0	
CGUS 00 264	Sunday	1 September 2019	07:53:00	08/10/2019	18/10/2019	1	95	0.14	88.0	
7774	Sunday	1 September 2019	11:07:58	08/10/2019	18/10/2019	1	95	0.12	88.0	
CGUS 00 264-1	Sunday	1 September 2019	17:55:00	08/10/2019	18/10/2019	1	95	0.12	88.0	
CGUS 00 265	Monday	2 September 2019	04:10:00	08/10/2019	18/10/2019	1	95	0.13	88.0	
1065-556	Monday	2 September 2019	12:23:40	08/10/2019	18/10/2019	1	115	0.20	91.5	
CGUS 00 266	Monday	2 September 2019	18:20:00	08/10/2019	18/10/2019	2	105	0.12	88.0	
CGUS 00 267	Tuesday	3 September 2019	04:15:00	08/10/2019	18/10/2019	1	95	0.14	88.0	
CGUS 00 268	Tuesday	3 September 2019	15:52:00	08/10/2019	18/10/2019	1	115	0.07	104.2	
CGUS 00 269	Wednesday	4 September 2019	01:07:00	08/10/2019	18/10/2019	1	95	0.11	88.0	
0774-124	Wednesday	4 September 2019	12:37:51	08/10/2019	18/10/2019	1	95	0.09	91.5	
CGUS 00 270	Wednesday	4 September 2019	17:30:00	08/10/2019	18/10/2019	1	115	0.08	91.5	
CGUS 00 271	Thursday	5 September 2019	15:40:00	08/10/2019	18/10/2019	1	115	0.07	88.0	
CGUS 00 272	Friday	6 September 2019	09:46:00	08/10/2019	18/10/2019	1	95	0.10	91.5	
7774-96	Friday	6 September 2019	13:35:45	08/10/2019	18/10/2019	1	115	0.10	106.5	
768	Friday	6 September 2019	15:45:36	08/10/2019	18/10/2019	1	115	0.09	107.5	
CGUS 00 274	Friday	6 September 2019	16:00:00	08/10/2019	18/10/2019	1	115	0.09	104.2	
7774-96	Saturday	7 September 2019	07:00:00	08/10/2019	18/10/2019	1	115	0.12	101.0	
CGUS 00 276	Saturday	7 September 2019	18:10:00	08/10/2019	18/10/2019	2	105	0.10	97.5	Localised environmental factors
CGUS 00 277	Sunday	8 September 2019	03:30:00	08/10/2019	18/10/2019	1	95	0.13	95.9	Localised environmental factors
CGUS 00 278	Sunday	8 September 2019	18:37:12	08/10/2019	18/10/2019	1	95	0.09	97.5	Localised environmental factors
CGUS 00 279	Monday	9 September 2019	06:15:00	08/10/2019	18/10/2019	1	95	0.12	101.0	Localised environmental factors
1074-135	Monday	9 September 2019	12:26:52	08/10/2019	18/10/2019	1	115	0.13	113.5	
CGUS 00 280	Monday	9 September 2019	18:30:11	08/10/2019	18/10/2019	2	105	0.11	101.0	
CGUS 00 281	Tuesday	10 September 2019	09:30:00	08/10/2019	18/10/2019	1	115	0.09	91.5	
CGUS 00 282	Tuesday	10 September 2019	15:11:00	08/10/2019	18/10/2019	1	105	0.05	88.0	
CGUS 00 283	Wednesday	11 September 2019	04:56:53	08/10/2019	18/10/2019	1	95	0.12	91.5	
106	Wednesday	11 September 2019	16:41:23	08/10/2019	18/10/2019	1	115	0.08	91.5	
CGUS 00 284	Wednesday	11 September 2019	17:25:00	08/10/2019	18/10/2019	1	115	0.08	91.5	
CGUS 00 285	Thursday	12 September 2019	01:30:00	08/10/2019	18/10/2019	1	95	0.11	91.5	
CGUS 00 285-2	Thursday	12 September 2019	12:15:00	08/10/2019	18/10/2019	1	115	0.05	88.0	
CGUS 00 286	Friday	13 September 2019	07:45:00	08/10/2019	18/10/2019	1	115	0.11	91.5	
768-2	Friday	13 September 2019	10:22:14	08/10/2019	18/10/2019	1	115	0.11	91.5	
1064	Friday	13 September 2019	14:28:14	08/10/2019	18/10/2019	1	115	0.05	88.0	
CGUS 00 287	Friday	13 September 2019	16:45:00	08/10/2019	18/10/2019	1	115	0.07	95.9	
CGUS 00 285-3	Friday	13 September 2019	22:45:00	08/10/2019	18/10/2019	1	95	0.09	88.0	
CGUS 00 288	Saturday	14 September 2019	11:48:00	08/10/2019	18/10/2019	1	115	0.07	94.0	
CGUS 00 288	Saturday	14 September 2019	12:15:00	08/10/2019	18/10/2019	1	115	0.07	91.5	
CGUS 00 291	Sunday	15 September 2019	16:45:00	08/10/2019	18/10/2019	1	95	0.07	88.0	
CGUS 00 290	Sunday	15 September 2019	22:45:00	08/10/2019	18/10/2019	1	95	0.06	88.0	
CGUS 00 292	Monday	16 September 2019	04:50:00	08/10/2019	18/10/2019	1	95	0.09	91.5	
CGUS 00 291-2	Monday	16 September 2019	11:49:00	08/10/2019	18/10/2019	1	115	0.07	95.9	
1064-5	Monday	16 September 2019	12:31:12	08/10/2019	18/10/2019	1	115	0.13	91.5	
CGUS 00 293	Monday	16 September 2019	15:20:00	08/10/2019	18/10/2019	1	115	0.07	88.0	
1065-107	Tuesday	17 September 2019	10:52:50	08/10/2019	18/10/2019	1	115	0.15	94.0	
CGUS 00 294	Tuesday	17 September 2019	21:50:00	08/10/2019	18/10/2019	1	95	0.12	91.5	
CGUS 00 295	Wednesday	18 September 2019	06:30:00	08/10/2019	18/10/2019	1	95	0.12	91.5	
CGUS 00 296	Wednesday	18 September 2019	18:30:00	08/10/2019	18/10/2019	2	105	0.09	88.0	
CGUS 00 297	Thursday	19 September 2019	05:10:00	08/10/2019	18/10/2019	1	95	0.13	91.5	
CGUS 00 298	Thursday	19 September 2019	18:30:00	08/10/2019	18/10/2019	2	105	0.08	88.0	
CGUS 00 299	Friday	20 September 2019	06:20:00	08/10/2019	18/10/2019	1	95	0.10	88.0	
1083-138	Friday	20 September 2019	13:20:40	08/10/2019	18/10/2019	1	95	0.12	106.5	
CGUS 00 300	Saturday	21 September 2019	05:30:00	08/10/2019	18/10/2019	1	95	0.09	112.8	Localised environmental factors
CGUS 00 301	Saturday	21 September 2019	18:25:00	08/10/2019	18/10/2019	2	105	0.08	88.0	
CGUS 00 302	Sunday	22 September 2019	05:30:00	08/10/2019	18/10/2019	1	95	0.11	91.5	
CGUS 00 303	Sunday	22 September 2019	16:45:00	08/10/2019	18/10/2019	1	95	0.09	91.5	
CGUS 00 304	Monday	23 September 2019	03:30:00	08/10/2019	18/10/2019	1	95	0.11	91.5	
CGUS 00 305	Monday	23 September 2019	14:54:00	08/10/2019	18/10/2019	1	105	0.05	88.0	
CGUS 00 306	Tuesday	24 September 2019	04:09:00	08/10/2019	18/10/2019	1	95	0.12	91.5	
CGUS 00 307	Tuesday	24 September 2019	17:11:00	08/10/2019	18/10/2019	1	115	0.08	88.0	
CGUS 00 308	Wednesday	25 September 2019	05:30:00	08/10/2019	18/10/2019	1	95	0.13	91.5	
CGUS 00 309	Wednesday	25 September 2019	06:20:00	08/10/2019	18/10/2019	1	95	0.11	91.5	
CGUS 00 310	Wednesday	25 September 2019	16:00:00	08/10/2019	18/10/2019	1	115	0.07	88.0	
CGUS 00 312	Thursday	26 September 2019	06:20:00	08/10/2019	18/10/2019	1	115	0.12	91.5	
768-1	Thursday	26 September 2019	10:45:44	08/10/2019	18/10/2019	1	115	0.17	91.5	
CGUS 00 311	Thursday	26 September 2019	14:30:00	08/10/2019	18/10/2019	1	115	0.07	91.5	
CGUS 00 311-3	Thursday	26 September 2019	17:22:00	08/10/2019	18/10/2019	1	115	0.08	88.0	
CGUS 00 312	Thursday	26 September 2019	21:07:20	08/10/2019	18/10/2019	1	95	0.11	88.0	
CGUS 00 313	Friday	27 September 2019	05:30:00	08/10/2019	18/10/2019	1	95	0.11	91.5	
CGUS 00 314	Friday	27 September 2019	16:07:00	08/10/2019	18/10/2019	1	115	0.07	88.0	
CGUS 00 315	Saturday	28 September 2019	02:55:00	08/10/2019	18/10/2019	1	95	0.11	91.5	
CGUS 00 316	Saturday	28 September 2019	16:50:00	08/10/2019	18/10/2019	1	115	0.07	88.0	
CGUS 00 317	Sunday	29 September 2019	06:05:00	08/10/2019	18/10/2019	1	115	0.12	91.5	
CGUS 00 318	Sunday	29 September 2019	18:13:00	08/10/2019	18/10/2019	1	95	0.09	91.5	
CGUS 00 319	Monday	30 September 2019	05:25:00	08/10/2019	18/10/2019	1	95	0.12	91.5	
CGUS 00 320	Monday	30 September 2019	19:40:00	08/10/2019	18/10/2019	2	105	0.10	88.0	

Account	Day	Start Date	End Date	Start Time	End Time	Day	Rate	Rate	Rate	Notes
CGUS 00 321	Tuesday	1 October 2019	05:10:00	11/11/2019	19/11/2019	1	95	0.11	91.5	
CGUS 00 322	Tuesday	1 October 2019	16:00:00	11/11/2019	19/11/2019	1	115	0.06	88.0	
CGUS 00 323	Wednesday	2 October 2019	11:45:00	11/11/2019	19/11/2019	1	115	0.05	88.0	
764-1	Wednesday	2 October 2019	12:30:55	11/11/2019	19/11/2019	1	115	0.07	95.9	
836-1	Wednesday	2 October 2019	13:42:50	11/11/2019	19/11/2019	1	115	0.06	88.0	
CGUS 00 324	Wednesday	2 October 2019	22:40:00	11/11/2019	19/11/2019	1	95	0.11	88.0	
CGUS 00 325	Thursday	3 October 2019	08:40:00	11/11/2019	19/11/2019	1	115	0.08	94.0	
1083-137	Thursday	3 October 2019	13:41:05	11/11/2019	19/11/2019	1	115	0.08	88.0	
0774-126	Thursday	3 October 2019	15:41:05	11/11/2019	19/11/2019	1	115	0.06	88.0	
CGUS 00 326	Thursday	3 October 2019	22:51:00	11/11/2019	19/11/2019	1	95	0.09	91.5	
CGUS 00 327	Friday	4 October 2019	10:30:00	11/11/2019	19/11/2019	1	115	0.07	95.9	
CGUS 00 328	Friday	4 October 2019	22:20:00	11/11/2019	19/11/2019	1	95	0.08	88.0	
CGUS 00 329	Saturday	5 October 2019	08:15:00	11/11/2019	19/11/2019	1	115	0.08	88.0	
CGUS 00 330	Sunday	6 October 2019	01:52:00	11/11/2019	19/11/2019	1	95	0.09	88.8	Localised environmental factors
CGUS 00 331	Sunday	6 October 2019	05:25:00	11/11/2019	19/11/2019	1	95	0.07	88.0	
CGUS 00 332	Monday	7 October 2019	08:45:00	11/11/2019	19/11/2019	1	95	0.09	88.0	
CGUS 00 333	Monday	7 October 2019	16:30:00	11/11/2019	19/11/2019	1	95	0.07	97.5	Localised environmental factors
CGUS 00 334	Tuesday	8 October 2019	05:40:00	11/11/2019	19/11/2019	1	95	0.08	88.0	
1092-135	Tuesday	8 October 2019	12:37:54	11/11/2019	19/11/2019	1	115	0.11	110.6	
1110-149	Tuesday	8 October 2019	17:37:54	11/11/2019	19/11/2019	1	115	0.11	110.6	
1110-139	Wednesday	9 October 2019	10:36:55	11/11/2019	19/11/2019	1	115	0.05	88.0	
CGUS 00 335	Wednesday	9 October 2019	12:05:50	11/11/2019	19/11/2019	1	115	0.07	88.0	
CGUS 00 336	Wednesday	9 October 2019	18:30:00	11/11/2019	19/11/2019	1	115	0.07	88.0	
CGUS 00 337	Thursday	10 October 2019	03:30:00	11/11/2019	19/11/2019	1	95	0.12	91.5	
CGUS 00 338	Thursday	10 October 2019	10:40:00	11/11/2019	19/11/2019	1	115	0.10	100.0	
CGUS 00 339	Thursday	10 October 2019	18:30:00	11/11/2019	19/11/2019	1	115	0.07	88.0	
CGUS 00 339-2	Friday	11 October 2019	05:30:00	11/11/2019	19/11/2019	1	95	0.08	88.0	
CGUS 00 340	Friday	11 October 2019	08:00:00	11/11/2019	19/11/2019	1	11			

Account ID	Date	Time	Start Date	End Date	Start Time	End Time	Balance	Interest	Notes
CGUS 00 381	Friday, 1 November 2019	06:22:00	06/12/2019	20/12/2019	1	95	0.09	91.5	
CGUS 00 382	Friday, 1 November 2019	11:45:00	06/12/2019	20/12/2019	1	115	0.06	91.5	
CGUS 00 383	Saturday, 2 November 2019	04:55:00	06/12/2019	20/12/2019	1	95	0.09	91.5	
1110_114	Saturday, 2 November 2019	12:44:28	06/12/2019	20/12/2019	1	115	0.06	114.0	
CGUS 00 384	Saturday, 2 November 2019	14:55:00	06/12/2019	20/12/2019	1	115	0.06	114.0	
CGUS 00 384-2	Saturday, 2 November 2019	18:30:00	06/12/2019	20/12/2019	2	105	0.09	88.0	
CGUS 00 385	Sunday, 3 November 2019	01:05:00	06/12/2019	20/12/2019	1	95	0.09	91.5	Localised environmental factors
CGUS 00 385-2	Sunday, 3 November 2019	02:45:00	06/12/2019	20/12/2019	1	95	0.09	91.5	Localised environmental factors
CGUS 00 385-3	Sunday, 3 November 2019	16:25:00	06/12/2019	20/12/2019	1	95	0.09	95.9	Localised environmental factors
CGUS 00 386	Sunday, 3 November 2019	21:50:00	06/12/2019	20/12/2019	1	95	0.10	88.0	Localised environmental factors
CGUS 00 387	Monday, 4 November 2019	01:00:00	06/12/2019	20/12/2019	1	115	0.07	95.9	
CGUS 00 388	Monday, 4 November 2019	07:42:00	06/12/2019	20/12/2019	1	115	0.10	94.0	
CGUS 00 387-2	Monday, 4 November 2019	08:45:00	06/12/2019	20/12/2019	1	115	0.09	94.0	
1074_138	Monday, 4 November 2019	12:34:01	06/12/2019	20/12/2019	1	115	0.11	95.9	
CGUS 00 387-3	Monday, 4 November 2019	14:55:00	06/12/2019	20/12/2019	1	115	0.07	98.8	
CGUS 00 389-2	Tuesday, 5 November 2019	05:56:00	06/12/2019	20/12/2019	1	95	0.11	95.9	Localised environmental factors
CGUS 00 389	Tuesday, 5 November 2019	12:13:00	06/12/2019	20/12/2019	1	115	0.09	95.9	
1092_137	Tuesday, 5 November 2019	13:04:21	06/12/2019	20/12/2019	1	115	0.11	88.0	
CGUS 00 389-3	Tuesday, 5 November 2019	18:00:00	06/12/2019	20/12/2019	1	115	0.09	101.0	
CGUS 00 390	Tuesday, 5 November 2019	21:45:00	06/12/2019	20/12/2019	1	95	0.09	88.0	
CGUS 00 391	Wednesday, 6 November 2019	06:00:00	06/12/2019	20/12/2019	1	95	0.11	88.0	
CGUS 00 392	Wednesday, 6 November 2019	20:30:00	06/12/2019	20/12/2019	1	95	0.08	91.5	
1101_142	Thursday, 7 November 2019	13:09:51	06/12/2019	20/12/2019	1	115	0.05	101.0	
1101_135	Thursday, 7 November 2019	13:09:51	06/12/2019	20/12/2019	1	115	0.10	100.0	
CGUS 00 393	Thursday, 7 November 2019	16:25:00	06/12/2019	20/12/2019	1	115	0.07	94.0	
CGUS 00 384	Friday, 8 November 2019	01:50:00	06/12/2019	20/12/2019	1	115	0.09	88.0	
CGUS 00 395	Friday, 8 November 2019	11:45:00	06/12/2019	20/12/2019	1	115	0.07	114.0	
CGUS 00 396	Friday, 8 November 2019	21:00:00	06/12/2019	20/12/2019	1	95	0.10	94.0	
CGUS 00 397	Saturday, 9 November 2019	06:00:00	06/12/2019	20/12/2019	1	95	0.11	94.0	
1101_133	Saturday, 9 November 2019	12:31:31	06/12/2019	20/12/2019	1	115	0.10	108.0	
CGUS 00 398	Saturday, 9 November 2019	13:15:00	06/12/2019	20/12/2019	1	108	0.08	108.0	
CGUS 00 399	Sunday, 10 November 2019	01:00:00	06/12/2019	20/12/2019	1	95	0.11	94.0	
CGUS 00 400	Sunday, 10 November 2019	10:35:00	06/12/2019	20/12/2019	1	95	0.08	91.5	
CGUS 00 401	Sunday, 10 November 2019	20:30:00	06/12/2019	20/12/2019	1	95	0.09	88.0	
CGUS 00 402	Monday, 11 November 2019	01:00:00	06/12/2019	20/12/2019	1	95	0.10	91.5	
CGUS 00 403	Monday, 11 November 2019	10:35:00	06/12/2019	20/12/2019	1	115	0.06	91.5	
CGUS 00 404	Tuesday, 12 November 2019	01:50:00	06/12/2019	20/12/2019	1	95	0.09	88.0	
1074_129	Tuesday, 12 November 2019	12:43:23	06/12/2019	20/12/2019	1	115	0.12	112.6	
1083_156	Tuesday, 12 November 2019	12:43:23	06/12/2019	20/12/2019	1	115	0.12	105.5	
CGUS 00 405	Tuesday, 12 November 2019	13:20:00	06/12/2019	20/12/2019	1	115	0.06	91.5	
CGUS 00 406	Wednesday, 13 November 2019	00:01:00	06/12/2019	20/12/2019	1	95	0.10	95.9	Localised environmental factors
CGUS 00 407	Wednesday, 13 November 2019	14:30:00	06/12/2019	20/12/2019	1	115	0.07	91.5	
CGUS 00 408	Thursday, 14 November 2019	04:10:00	06/12/2019	20/12/2019	1	95	0.11	91.5	
CGUS 00 409	Thursday, 14 November 2019	18:08:00	06/12/2019	20/12/2019	2	105	0.08	88.0	
CGUS 00 410	Friday, 15 November 2019	06:20:00	06/12/2019	20/12/2019	1	95	0.10	91.5	
1101_137	Friday, 15 November 2019	13:01:44	06/12/2019	20/12/2019	1	115	0.04	91.5	
CGUS 00 411	Saturday, 16 November 2019	02:15:00	06/12/2019	20/12/2019	1	95	0.09	91.5	
CGUS 00 412	Saturday, 16 November 2019	18:00:00	06/12/2019	20/12/2019	2	105	0.07	94.0	
CGUS 00 413	Sunday, 17 November 2019	01:30:00	06/12/2019	20/12/2019	1	95	0.10	88.0	
CGUS 00 414	Monday, 18 November 2019	00:00:00	06/12/2019	20/12/2019	1	95	0.09	88.0	
CGUS 00 415	Monday, 18 November 2019	06:15:00	06/12/2019	20/12/2019	1	95	0.11	88.0	
1101_139	Monday, 18 November 2019	12:42:48	06/12/2019	20/12/2019	1	115	0.07	101.0	
CGUS 00 416	Monday, 18 November 2019	18:05:00	06/12/2019	20/12/2019	2	105	0.06	88.0	
CGUS 00 417	Tuesday, 19 November 2019	01:30:00	06/12/2019	20/12/2019	1	95	0.09	88.0	
CGUS 00 418	Tuesday, 19 November 2019	11:50:00	06/12/2019	20/12/2019	1	115	0.06	107.5	
CGUS 00 419	Wednesday, 20 November 2019	01:45:00	06/12/2019	20/12/2019	1	95	0.09	88.0	
CGUS 00 421	Thursday, 21 November 2019	06:15:00	06/12/2019	20/12/2019	1	95	0.09	94.0	
1092_131-136	Thursday, 21 November 2019	12:35:42	06/12/2019	20/12/2019	1	115	0.06	107.5	
1083_157	Thursday, 21 November 2019	12:35:42	06/12/2019	20/12/2019	1	115	0.06	107.0	
1101_147	Thursday, 21 November 2019	12:35:42	06/12/2019	20/12/2019	1	115	0.06	107.0	
CGUS 00 422	Thursday, 21 November 2019	14:45:00	06/12/2019	20/12/2019	1	115	0.06	107.0	
CGUS 00 420	Thursday, 21 November 2019	21:25:00	06/12/2019	20/12/2019	1	95	0.07	88.0	
CGUS 00 423	Friday, 22 November 2019	04:45:00	06/12/2019	20/12/2019	1	95	0.07	88.0	
CGUS 00 424	Friday, 22 November 2019	16:35:00	06/12/2019	20/12/2019	1	115	0.07	88.0	
CGUS 00 425	Saturday, 23 November 2019	01:55:00	06/12/2019	20/12/2019	1	95	0.09	88.0	
CGUS 00 426	Saturday, 23 November 2019	12:48:00	06/12/2019	20/12/2019	1	115	0.06	97.5	
CGUS 00 427	Sunday, 24 November 2019	21:05:00	06/12/2019	20/12/2019	1	95	0.08	91.5	
CGUS 00 427-2	Sunday, 24 November 2019	08:45:00	06/12/2019	20/12/2019	1	95	0.08	88.0	Blat occurred when monitor was upgrading results
1083_155	Sunday, 24 November 2019	12:28:46	06/12/2019	20/12/2019	1	95	0.10	91.5	
1092_147	Sunday, 24 November 2019	12:28:46	06/12/2019	20/12/2019	1	95	0.08	91.5	
CGUS 00 428	Sunday, 24 November 2019	17:35:00	06/12/2019	20/12/2019	1	95	0.07	88.0	
CGUS 00 429	Monday, 25 November 2019	04:05:00	06/12/2019	20/12/2019	1	95	0.09	88.0	
1092_157	Monday, 25 November 2019	13:39:16	06/12/2019	20/12/2019	1	115	0.07	100.0	
CGUS 00 430	Monday, 25 November 2019	14:25:00	06/12/2019	20/12/2019	1	115	0.06	106.5	
CGUS 00 430-2	Monday, 25 November 2019	21:20:00	06/12/2019	20/12/2019	1	95	0.08	88.0	
CGUS 00 431	Tuesday, 26 November 2019	10:05:00	06/12/2019	20/12/2019	1	115	0.08	103.5	
1085_199	Tuesday, 26 November 2019	12:21:33	06/12/2019	20/12/2019	1	115	0.14	112.3	
CGUS 00 432	Tuesday, 26 November 2019	20:55:00	06/12/2019	20/12/2019	1	95	0.08	91.5	
CGUS 00 433	Wednesday, 27 November 2019	06:00:00	06/12/2019	20/12/2019	2	105	0.11	91.5	
1092_158	Wednesday, 27 November 2019	12:31:20	06/12/2019	20/12/2019	1	115	0.07	94.0	
CGUS 00 434	Thursday, 28 November 2019	06:30:00	06/12/2019	20/12/2019	1	105	0.11	88.0	
CGUS 00 435-2	Thursday, 28 November 2019	11:25:00	06/12/2019	20/12/2019	1	115	0.06	91.5	
CGUS 00 435	Thursday, 28 November 2019	12:30:00	06/12/2019	20/12/2019	1	115	0.06	91.5	
1085_158	Thursday, 28 November 2019	12:36:14	06/12/2019	20/12/2019	1	115	0.06	95.9	
CGUS 00 437	Friday, 29 November 2019	12:05:00	06/12/2019	20/12/2019	1	115	0.06	91.5	
CGUS 00 438	Friday, 29 November 2019	18:30:00	06/12/2019	20/12/2019	1	115	0.06	94.0	
CGUS 00 439	Saturday, 30 November 2019	01:00:00	06/12/2019	20/12/2019	1	95	0.07	91.5	Localised environmental factors
1074_136	Saturday, 30 November 2019	13:35:17	06/12/2019	20/12/2019	1	115	0.09	111.8	
CGUS 00 440	Saturday, 30 November 2019	18:15:00	06/12/2019	20/12/2019	1	115	0.07	97.5	
CGUS 00 440-2	Saturday, 30 November 2019	23:40:00	06/12/2019	20/12/2019	1	95	0.09	88.0	
December									
CGUS 00 441	Sunday, 1 December 2019	06:02:00	07/12/2019	17/01/2020	1	95	0.11	91.5	
1092_139	Sunday, 1 December 2019	12:28:50	07/12/2019	17/01/2020	1	95	0.11	94.0	
CGUS 00 441-2	Sunday, 1 December 2019	12:45:00	07/12/2019	17/01/2020	1	95	0.07	101.9	
CGUS 00 442	Sunday, 1 December 2019	18:16:00	07/12/2019	17/01/2020	1	95	0.09	88.0	
CGUS 00 442-2	Monday, 2 December 2019	01:25:00	07/12/2019	17/01/2020	1	95	0.11	91.5	
CGUS 00 443	Monday, 2 December 2019	06:23:00	07/12/2019	17/01/2020	1	95	0.10	91.5	
CGUS 00 444	Monday, 2 December 2019	16:30:00	07/12/2019	17/01/2020	1	105	0.09		

Monitoring Point: BM03

Blast monitoring, Airblast overpressure and ground vibration peak particle velocity recorded at private residence to the north of M1535 boundary

Blast Number	Day/Date	Time	Date Obtained	Date Published	Tissue Threshold		BM03 at Blast Time		Comments
					Ground Vibration (mm/s)	Airblast Overpressure (dB(L))	Ground Vibration (mm/s)	Airblast Overpressure (dB(L))	
JANUARY									
1146-106	Tuesday, 1 January 2019	12:36:21	06/02/2019	20/02/2019	5	115	0.10	91.5	
1146-100	Wednesday, 2 January 2019	12:34:21	06/02/2019	20/02/2019	5	115	0.12	94.0	
822-4	Thursday, 3 January 2019	12:22:26	06/02/2019	20/02/2019	5	115	0.17	88.0	
1146-88A	Friday, 4 January 2019	12:32:00	06/02/2019	20/02/2019	5	115	0.10	88.0	
833-20	Saturday, 5 January 2019	12:40:42	06/02/2019	20/02/2019	5	115	0.12	94.0	
822-503-502B	Saturday, 5 January 2019	12:40:42	06/02/2019	20/02/2019	5	115	0.12	94.0	
822-503-501A	Sunday, 6 January 2019	12:29:57	06/02/2019	20/02/2019	5	95	0.13	91.5	
1146-102	Sunday, 6 January 2019	12:03:55	06/02/2019	20/02/2019	5	115	0.20	94.0	
831-9	Monday, 7 January 2019	12:03:46	06/02/2019	20/02/2019	5	115	0.20	88.0	
1137-100	Tuesday, 8 January 2019	12:38:41	06/02/2019	20/02/2019	5	115	0.08	88.0	
822-195-16	Thursday, 10 January 2019	12:36:21	06/02/2019	20/02/2019	5	115	0.18	91.5	
1128-101	Friday, 11 January 2019	12:36:28	06/02/2019	20/02/2019	5	115	0.09	91.5	
1088-135	Monday, 14 January 2019	12:42:53	06/02/2019	20/02/2019	5	115	0.11	100.0	
1137-101	Tuesday, 15 January 2019	12:33:32	06/02/2019	20/02/2019	5	115	0.12	91.5	
1083-134	Wednesday, 16 January 2019	12:32:56	06/02/2019	20/02/2019	5	115	0.14	88.0	
1137-104	Thursday, 17 January 2019	12:33:15	06/02/2019	20/02/2019	5	115	0.12	91.5	
822-8-10	Saturday, 19 January 2019	12:29:29	06/02/2019	20/02/2019	5	115	0.12	91.5	
1146-93-84	Saturday, 19 January 2019	12:57:35	06/02/2019	20/02/2019	5	115	0.11	94.0	
821-15	Monday, 21 January 2019	12:29:40	06/02/2019	20/02/2019	5	115	0.10	88.0	
822-515	Monday, 21 January 2019	12:29:40	06/02/2019	20/02/2019	5	115	0.09	88.0	
1137-92-83	Monday, 21 January 2019	12:52:41	06/02/2019	20/02/2019	5	115	0.10	91.5	
1137-100	Tuesday, 22 January 2019	12:34:57	06/02/2019	20/02/2019	5	115	0.12	88.0	
822-14	Wednesday, 23 January 2019	12:29:09	06/02/2019	20/02/2019	5	115	0.11	102.8	
1146-103	Thursday, 24 January 2019	12:47:18	06/02/2019	20/02/2019	5	115	0.10	91.5	
1146-105	Friday, 25 January 2019	12:38:41	06/02/2019	20/02/2019	5	115	0.12	91.5	
1146-88B	Saturday, 26 January 2019	12:14:58	06/02/2019	20/02/2019	5	115	0.14	91.5	
1083-136	Monday, 28 January 2019	12:00:12	06/02/2019	20/02/2019	5	95	0.07	100.0	Localised environmental factors
1137-103	Monday, 28 January 2019	06:00:12	06/02/2019	20/02/2019	5	95	0.06	100.0	Localised environmental factors
822-20	Wednesday, 30 January 2019	12:08:36	06/02/2019	20/02/2019	5	115	0.15	91.5	
822-8	Wednesday, 30 January 2019	12:08:36	06/02/2019	20/02/2019	5	115	0.16	91.5	
822-13	Wednesday, 30 January 2019	12:08:36	06/02/2019	20/02/2019	5	115	0.15	91.5	
FEBRUARY									
1137-101-114	Friday, 1 February 2019	12:20:04	08/03/2019	20/03/2019	5	115	0.14	94.0	
1137-105	Monday, 4 February 2019	12:31:02	08/03/2019	20/03/2019	5	115	0.12	94.0	
1128-102	Monday, 4 February 2019	12:31:02	08/03/2019	20/03/2019	5	115	0.12	88.0	
1137-95	Tuesday, 5 February 2019	12:34:55	08/03/2019	20/03/2019	5	115	0.10	98.8	
822-12	Friday, 8 February 2019	12:07:18	08/03/2019	20/03/2019	5	115	0.10	88.0	
822-7	Friday, 8 February 2019	12:07:18	08/03/2019	20/03/2019	5	115	0.10	88.0	
1137-111	Saturday, 9 February 2019	12:45:17	08/03/2019	20/03/2019	5	115	0.15	91.5	
1119-135	Sunday, 10 February 2019	12:15:03	08/03/2019	20/03/2019	5	95	0.09	100.0	Localised environmental factors
822-17	Monday, 11 February 2019	12:42:31	08/03/2019	20/03/2019	5	115	0.09	91.5	
1137-110-111	Wednesday, 13 February 2019	12:40:21	08/03/2019	20/03/2019	5	115	0.10	101.2	
1137-99	Wednesday, 13 February 2019	12:40:21	08/03/2019	20/03/2019	5	115	0.10	101.2	
822-18	Thursday, 14 February 2019	12:35:24	08/03/2019	20/03/2019	5	115	0.08	88.0	
1137-131	Thursday, 14 February 2019	12:00:08	08/03/2019	20/03/2019	5	115	0.09	88.0	
1101-132	Friday, 15 February 2019	12:41:19	08/03/2019	20/03/2019	5	115	0.09	95.9	
1128-103	Friday, 15 February 2019	12:46:10	08/03/2019	20/03/2019	5	115	0.09	91.5	
822-19	Monday, 18 February 2019	12:45:56	08/03/2019	20/03/2019	5	115	0.11	94.0	
1101-123	Monday, 18 February 2019	12:12:25	08/03/2019	20/03/2019	5	115	0.09	98.8	
833-501-502	Friday, 22 February 2019	12:26:04	08/03/2019	20/03/2019	5	115	0.13	91.5	
833-501-501	Friday, 22 February 2019	12:26:04	08/03/2019	20/03/2019	5	115	0.13	91.5	
1137-97-88	Saturday, 23 February 2019	12:11:19	08/03/2019	20/03/2019	5	115	0.14	94.0	
1137-100	Saturday, 23 February 2019	12:31:19	08/03/2019	20/03/2019	5	115	0.14	95.9	
1101-124	Saturday, 23 February 2019	12:02:15	08/03/2019	20/03/2019	5	115	0.08	98.8	
1074-121	Monday, 25 February 2019	12:40:25	08/03/2019	20/03/2019	5	115	0.07	88.0	
833-504	Monday, 25 February 2019	12:35:30	08/03/2019	20/03/2019	5	115	0.11	88.0	
833-503-504	Wednesday, 27 February 2019	12:41:00	08/03/2019	20/03/2019	5	115	0.09	91.5	
1128-122	Wednesday, 27 February 2019	12:49:58	08/03/2019	20/03/2019	5	115	0.09	91.5	
1137-132	Thursday, 28 February 2019	12:35:07	08/03/2019	20/03/2019	5	115	0.08	91.5	
MARCH									
833-8	Saturday, 2 March 2019	12:38:58	10/04/2019	11/04/2019	5	115	0.11	88.0	
1137-108	Sunday, 3 March 2019	12:37:10	10/04/2019	11/04/2019	5	95	0.09	88.0	
833-506A	Monday, 4 March 2019	12:04:55	10/04/2019	11/04/2019	5	115	0.09	88.0	
1128-104	Monday, 4 March 2019	12:33:21	10/04/2019	11/04/2019	5	115	0.11	91.5	
1137-107	Tuesday, 5 March 2019	12:28:10	10/04/2019	11/04/2019	5	115	0.07	91.5	
1128-110	Thursday, 7 March 2019	12:39:29	10/04/2019	11/04/2019	5	115	0.07	94.0	
833-8	Friday, 8 March 2019	12:35:02	10/04/2019	11/04/2019	5	115	0.08	91.5	
1128-109-110	Saturday, 9 March 2019	12:37:15	10/04/2019	11/04/2019	5	95	0.11	94.0	
1128-119	Tuesday, 12 March 2019	12:41:40	10/04/2019	11/04/2019	5	115	0.09	88.0	
1119-116	Wednesday, 13 March 2019	12:41:40	10/04/2019	11/04/2019	5	115	0.09	88.0	
1110-116	Wednesday, 13 March 2019	12:28:59	10/04/2019	11/04/2019	5	115	0.07	91.5	
CGUS 0001	Friday, 15 March 2019	12:36:51	10/04/2019	11/04/2019	5	115	0.07	88.0	
1119-119	Saturday, 16 March 2019	12:20:24	10/04/2019	11/04/2019	5	115	0.06	91.5	
CGUS 0002	Saturday, 16 March 2019	12:27:16	10/04/2019	11/04/2019	5	115	0.08	95.9	
833-13	Monday, 18 March 2019	12:41:06	10/04/2019	11/04/2019	5	115	0.07	106.5	
CGUS 0003	Monday, 18 March 2019	12:54:44	10/04/2019	11/04/2019	5	115	0.11	94.0	
1119-115	Monday, 18 March 2019	12:54:44	10/04/2019	11/04/2019	5	115	0.11	109.2	
833-6	Wednesday, 20 March 2019	12:33:47	10/04/2019	11/04/2019	5	115	0.10	88.0	
CGUS 0004	Wednesday, 20 March 2019	12:42:13	10/04/2019	11/04/2019	5	115	0.09	91.5	
1119-116A	Wednesday, 20 March 2019	12:46:15	10/04/2019	11/04/2019	5	115	0.09	91.5	
1119-116B	Friday, 22 March 2019	12:09:54	10/04/2019	11/04/2019	5	115	0.09	94.0	
CGUS 0005	Friday, 22 March 2019	12:11:10	10/04/2019	11/04/2019	5	115	0.07	91.5	
833-14	Saturday, 23 March 2019	12:01:51	10/04/2019	11/04/2019	5	115	0.07	94.0	
1119-117	Saturday, 23 March 2019	12:11:02	10/04/2019	11/04/2019	5	115	0.07	88.0	
1119-118	Sunday, 24 March 2019	12:28:56	10/04/2019	11/04/2019	5	115	0.08	91.5	
CGUS 0006	Sunday, 24 March 2019	12:30:38	10/04/2019	11/04/2019	5	95	0.08	91.5	
CGUS 0007	Monday, 25 March 2019	12:30:00	10/04/2019	11/04/2019	5	115	0.10	91.5	
833-7	Tuesday, 26 March 2019	12:31:32	10/04/2019	11/04/2019	5	115	0.12	91.5	
CGUS 0008	Tuesday, 26 March 2019	12:31:32	10/04/2019	11/04/2019	5	115	0.10	91.5	
833-506B-507	Wednesday, 27 March 2019	12:38:00	10/04/2019	11/04/2019	5	115	0.09	91.5	
CGUS 0009	Thursday, 28 March 2019	12:36:15	10/04/2019	11/04/2019	5	115	0.07	91.5	
833-2	Friday, 29 March 2019	12:26:04	10/04/2019	11/04/2019	5	115	0.10	91.5	
833-505	Friday, 29 March 2019	12:26:04	10/04/2019	11/04/2019	5	115	0.10	91.5	
CGUS 0010	Friday, 29 March 2019	12:38:00	10/04/2019	11/04/2019	5	115	0.09	88.0	
1128-111	Saturday, 30 March 2019	12:37:05	10/04/2019	11/04/2019	5	115	0.10	91.5	
CGUS 0011	Saturday, 30 March 2019	12:36:11	10/04/2019	11/04/2019	5	95	0.11	94.0	
1110-117	Sunday, 31 March 2019	12:36:11	10/04/2019	11/04/2019	5	95	0.11	94.0	
April									
1119-116	Monday, 1 April 2019	12:44:10	16/04/2019	20/05/2019	5				

July									
CUG 00 151-1	Monday, 1 July 2019	06:09:15	12/08/2019	20/08/2019	1	95	0.13	88.0	
CUG 00 151	Monday, 1 July 2019	12:16:00	12/08/2019	20/08/2019	1	115	0.13	88.0	
CUG 00 152	Tuesday, 2 July 2019	06:18:30	12/08/2019	20/08/2019	1	95	0.13	88.0	
1092-134	Tuesday, 2 July 2019	12:33:27	12/08/2019	20/08/2019	1	115	0.12	91.5	
CUG 00 153	Tuesday, 2 July 2019	12:53:00	12/08/2019	20/08/2019	1	115	0.13	88.0	
CUG 00 154	Wednesday, 3 July 2019	05:28:32	12/08/2019	20/08/2019	1	95	0.12	88.0	
CUG 00 155	Wednesday, 3 July 2019	18:11:55	12/08/2019	20/08/2019	2	105	0.12	91.5	
CUG 00 156	Thursday, 4 July 2019	05:00:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
CUG 00 157	Thursday, 4 July 2019	17:50:45	12/08/2019	20/08/2019	1	115	0.13	88.0	
CUG 00 158	Friday, 5 July 2019	05:59:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
1092-150	Friday, 5 July 2019	13:09:54	12/08/2019	20/08/2019	1	115	0.12	94.0	
CUG 00 159	Friday, 5 July 2019	18:00:50	12/08/2019	20/08/2019	2	105	0.13	91.5	
CUG 00 160	Saturday, 6 July 2019	05:49:32	12/08/2019	20/08/2019	1	95	0.13	88.0	
CUG 00 161	Saturday, 6 July 2019	18:03:50	12/08/2019	20/08/2019	1	105	0.13	88.0	
CUG 00 162	Sunday, 7 July 2019	06:38:59	12/08/2019	20/08/2019	1	95	0.12	88.0	
CUG 00 163	Sunday, 7 July 2019	18:02:15	12/08/2019	20/08/2019	1	95	0.11	88.0	
CUG 00 164	Monday, 8 July 2019	07:47:03	12/08/2019	20/08/2019	1	115	0.13	88.0	
CUG 00 165	Monday, 8 July 2019	17:50:18	12/08/2019	20/08/2019	1	115	0.13	88.0	
CUG 00 166	Tuesday, 9 July 2019	02:02:30	12/08/2019	20/08/2019	1	95	0.12	88.0	
CUG 00 167	Tuesday, 9 July 2019	11:18:00	12/08/2019	20/08/2019	1	115	0.13	88.0	
CUG 00 168	Tuesday, 9 July 2019	13:13:20	12/08/2019	20/08/2019	1	95	0.12	88.0	
CUG 00 169	Wednesday, 10 July 2019	06:37:34	12/08/2019	20/08/2019	1	95	0.12	88.0	
786-5	Wednesday, 10 July 2019	10:08:44	12/08/2019	20/08/2019	1	115	0.15	88.0	
786-502	Wednesday, 10 July 2019	10:08:44	12/08/2019	20/08/2019	1	115	0.15	88.0	
CUG 00 169-1	Wednesday, 10 July 2019	17:18:08	12/08/2019	20/08/2019	1	115	0.12	88.0	
CUG 00 169-2	Thursday, 11 July 2019	05:15:00	12/08/2019	20/08/2019	1	95	0.12	88.0	
786-5	Thursday, 11 July 2019	12:39:32	12/08/2019	20/08/2019	1	115	0.13	91.5	
CUG 00 169-3	Thursday, 11 July 2019	18:29:00	12/08/2019	20/08/2019	2	105	0.12	88.0	
CUG 00 170	Friday, 12 July 2019	01:00:00	12/08/2019	20/08/2019	1	95	0.12	88.0	
786-503	Friday, 12 July 2019	12:32:20	12/08/2019	20/08/2019	1	115	0.13	91.5	
CUG 00 170-1	Friday, 12 July 2019	18:00:00	12/08/2019	20/08/2019	1	115	0.13	88.0	
CUG 00 171	Saturday, 13 July 2019	09:30:00	12/08/2019	20/08/2019	1	95	0.12	100.0	Localised environmental factors
CUG 00 172	Saturday, 13 July 2019	12:10:00	12/08/2019	20/08/2019	1	115	0.13	91.5	
CUG 00 173	Sunday, 14 July 2019	01:00:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
786-1	Sunday, 14 July 2019	10:17:03	12/08/2019	20/08/2019	1	95	0.13	88.0	
CUG 00 174	Sunday, 14 July 2019	12:30:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
CUG 00 175	Monday, 15 July 2019	01:05:00	12/08/2019	20/08/2019	1	95	0.12	88.0	
786-7	Monday, 15 July 2019	15:00:27	12/08/2019	20/08/2019	1	115	0.13	91.5	
CUG 00 175-1	Monday, 15 July 2019	20:30:00	12/08/2019	20/08/2019	2	105	0.12	88.0	
CUG 00 177	Tuesday, 16 July 2019	05:05:00	12/08/2019	20/08/2019	1	95	0.12	88.0	
CUG 00 176-1	Tuesday, 16 July 2019	06:15:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
CUG 00 176	Tuesday, 16 July 2019	18:29:00	12/08/2019	20/08/2019	2	105	0.12	88.0	
CUG 00 178	Wednesday, 17 July 2019	06:30:00	12/08/2019	20/08/2019	1	95	0.12	88.0	
786-8	Wednesday, 17 July 2019	12:28:34	12/08/2019	20/08/2019	1	115	0.11	88.0	
CUG 00 179	Thursday, 18 July 2019	04:40:00	12/08/2019	20/08/2019	1	95	0.12	88.0	
786-10	Thursday, 18 July 2019	12:16:43	12/08/2019	20/08/2019	1	115	0.12	88.0	
CUG 00 180	Thursday, 18 July 2019	18:35:15	12/08/2019	20/08/2019	2	105	0.12	88.0	
CUG 00 180-1	Friday, 19 July 2019	06:30:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
CUG 00 180-2	Friday, 19 July 2019	12:45:00	12/08/2019	20/08/2019	1	95	0.12	88.0	
786-8	Saturday, 20 July 2019	12:28:38	12/08/2019	20/08/2019	1	115	0.11	88.0	
CUG 00 181	Saturday, 20 July 2019	18:05:00	12/08/2019	20/08/2019	2	105	0.12	88.0	
1092-1496	Saturday, 20 July 2019	12:39:22	12/08/2019	20/08/2019	1	115	0.13	91.5	
CUG 00 184	Sunday, 21 July 2019	20:25:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
CUG 00 187	Monday, 22 July 2019	17:50:00	12/08/2019	20/08/2019	1	115	0.11	88.0	
CUG 00 188	Tuesday, 23 July 2019	02:25:00	12/08/2019	20/08/2019	1	95	0.12	88.0	
1092-1498	Tuesday, 23 July 2019	12:40:29	12/08/2019	20/08/2019	1	115	0.10	88.0	
CUG 00 189	Tuesday, 23 July 2019	17:50:00	12/08/2019	20/08/2019	1	115	0.11	88.0	
CUG 00 190	Wednesday, 24 July 2019	06:00:00	12/08/2019	20/08/2019	1	95	0.12	88.0	
CUG 00 191	Thursday, 25 July 2019	04:40:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
CUG 00 192	Thursday, 25 July 2019	18:24:00	12/08/2019	20/08/2019	2	105	0.12	88.0	
CUG 00 193	Friday, 26 July 2019	06:30:00	12/08/2019	20/08/2019	1	95	0.12	88.0	
1092-1489	Friday, 26 July 2019	12:43:30	12/08/2019	20/08/2019	1	115	0.11	88.0	
1092-1490	Friday, 26 July 2019	18:08:53	12/08/2019	20/08/2019	1	115	0.12	91.5	
CUG 00 194	Friday, 26 July 2019	18:00:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
CUG 00 195	Saturday, 27 July 2019	01:40:00	12/08/2019	20/08/2019	1	95	0.12	88.0	
CUG 00 196	Saturday, 27 July 2019	16:30:00	12/08/2019	20/08/2019	1	115	0.11	88.0	
CUG 00 197	Saturday, 27 July 2019	06:40:00	12/08/2019	20/08/2019	1	95	0.12	88.0	
786-2 Preliminary	Sunday, 28 July 2019	13:11:03	12/08/2019	20/08/2019	1	95	0.10	88.0	
ATC-2 Preliminary	Sunday, 28 July 2019	18:31:00	12/08/2019	20/08/2019	1	95	0.10	88.0	
CUG 00 198	Sunday, 28 July 2019	18:00:00	12/08/2019	20/08/2019	1	95	0.13	88.0	
CUG 00 199	Monday, 29 July 2019	09:35:00	12/08/2019	20/08/2019	1	95	0.12	88.0	
786-3	Monday, 29 July 2019	11:22:33	12/08/2019	20/08/2019	1	115	0.12	88.0	
CUG 00 200	Monday, 29 July 2019	18:28:00	12/08/2019	20/08/2019	1	115	0.12	88.0	
CUG 00 201	Tuesday, 30 July 2019	02:30:00	12/08/2019	20/08/2019	1	95	0.12	88.0	
CUG 00 203	Wednesday, 31 July 2019	02:30:00	12/08/2019	20/08/2019	1	95	0.12	88.0	
CUG 00 203-1	Wednesday, 31 July 2019	17:29:00	12/08/2019	20/08/2019	1	115	0.11	88.0	

August									
CUG 00 203-2	Thursday, 1 August 2019	05:45:00	09/09/2019	20/09/2019	1	95	0.12	88.0	
786-504	Thursday, 1 August 2019	12:40:01	09/09/2019	20/09/2019	1	115	0.15	94.0	
CUG 00 204	Thursday, 1 August 2019	12:40:01	09/09/2019	20/09/2019	1	115	0.15	94.0	
CUG 00 204	Thursday, 1 August 2019	17:45:00	09/09/2019	20/09/2019	1	115	0.12	91.5	
CUG 00 205	Friday, 2 August 2019	04:30:00	09/09/2019	20/09/2019	1	95	0.12	88.0	
CUG 00 206	Friday, 2 August 2019	15:25:00	09/09/2019	20/09/2019	1	95	0.10	88.0	
CUG 00 207	Saturday, 3 August 2019	04:45:00	09/09/2019	20/09/2019	1	95	0.12	88.0	
786-506-507	Saturday, 3 August 2019	10:00:00	09/09/2019	20/09/2019	1	115	0.12	88.0	
CUG 00 208	Saturday, 3 August 2019	17:38:00	09/09/2019	20/09/2019	1	115	0.11	88.0	
CUG 00 209	Sunday, 4 August 2019	03:10:00	09/09/2019	20/09/2019	1	95	0.13	88.0	
CUG 00 210	Sunday, 4 August 2019	16:06:00	09/09/2019	20/09/2019	1	95	0.10	91.5	
CUG 00 211	Monday, 5 August 2019	03:45:00	09/09/2019	20/09/2019	1	95	0.13	88.0	
777-1	Monday, 5 August 2019	12:08:16	09/09/2019	20/09/2019	1	115	0.13	91.5	
CUG 00 212	Monday, 5 August 2019	15:35:00	09/09/2019	20/09/2019	1	115	0.11	88.0	
CUG 00 213	Tuesday, 6 August 2019	01:30:00	09/09/2019	20/09/2019	1	95	0.12	88.0	
786-5	Tuesday, 6 August 2019	09:36:24	09/09/2019	20/09/2019	1	115	0.12	88.0	
CUG 00 214	Tuesday, 6 August 2019	15:15:00	09/09/2019	20/09/2019	1	115	0.10	88.0	
CUG 00 215	Wednesday, 7 August 2019	02:45:00	09/09/2019	20/09/2019	1	95	0.12	88.0	
786-6	Wednesday, 7 August 2019	01:10:00	09/09/2019	20/09/2019	1	95	0.12	88.0	
786-6	Wednesday, 7 August 2019	09:20:27	09/09/2019	20/09/2019	1	115	0.12	88.0	
CUG 00 217	Wednesday, 7 August 2019	21:05:00	09/09/2019	20/09/2019	1	95	0.12	88.0	
786-7 Preliminary	Thursday, 8 August 2019	15:00:00	09/09/2019	20/09/2019	1	115	0.10	88.0	
CUG 00 218	Thursday, 8 August 2019	16:25:00	09/09/2019	20/09/2019	1	115	0.10	100.0	
CUG 00 219	Friday, 9 August 2019	06:25:00	09/09/2019	20/09/2019	1	95	0.12	88.0	
786-508	Friday, 9 August 2019	11:46:12	09/09/2019	20/09/2019	1	115	0.10	103.5	
786-7	Friday, 9 August 2019	11:46:12	09/09/2019	20/09/2019	1	115	0.10	103.5	
CUG 00 220	Friday, 9 August 2019	18:29:00	09/09/2019	20/09/2019	1	105	0.13	88.0	
CUG 00 221	Saturday, 10 August 2019	07:00:00	09/09/2019	20/09/2019	1	95	0.12	88.0	
786-509	Saturday, 10 August 2019	12:43:30	09/09/2019	20/09/2019	1	115	0.11	91.5	
CUG 00 222	Saturday, 10 August 2019	18:29:00	09/09/2019	20/09/2019	1	95	0.13	88.0	
CUG 00 221-A	Sunday, 11 August 2019	01:45:00	09/09/2019	20/09/2019	1	95	0.12	88.0	
CUG 00 222-A	Sunday, 11 August 2019	05:15:00	09/09/2019	20/09/2019	1	95	0.12	91.5	
CUG 00 224	Sunday, 11 August 2019	18:29:00	09/09/2019	20/09/2019	1	95	0.13		

Account ID	Day	Start Date	End Date	Start Time	End Time	Start Day	End Day	Start Time	End Time	Notes
CGUS 00 381	Friday, 1 November 2019	06:22:00	06/12/2019	20:12/2019	1	95	0.10	88.0		
CGUS 00 382	Friday, 1 November 2019	11:45:00	06/12/2019	20:12/2019	1	115	0.07	91.5		
CGUS 00 383	Saturday, 2 November 2019	04:55:00	06/12/2019	20:12/2019	1	95	0.09	88.0		
1110-154	Saturday, 2 November 2019	12:44:28	06/12/2019	20:12/2019	1	115	0.07	106.9		
CGUS 00 384	Saturday, 2 November 2019	14:55:00	06/12/2019	20:12/2019	1	115	0.09	91.5		
CGUS 00 384-2	Saturday, 2 November 2019	18:30:00	06/12/2019	20:12/2019	2	105	0.09	91.5		
CGUS 00 385	Sunday, 3 November 2019	01:05:00	06/12/2019	20:12/2019	1	95	0.10	88.0		
CGUS 00 385-2	Sunday, 3 November 2019	02:45:00	06/12/2019	20:12/2019	1	95	0.09	88.0		Localised environmental factors
CGUS 00 385-3	Sunday, 3 November 2019	16:25:00	06/12/2019	20:12/2019	1	95	0.09	88.0		
CGUS 00 386	Sunday, 3 November 2019	21:50:00	06/12/2019	20:12/2019	1	95	0.11	88.0		
CGUS 00 387	Monday, 4 November 2019	02:05:00	06/12/2019	20:12/2019	1	115	0.10	91.5		
CGUS 00 388	Monday, 4 November 2019	07:42:00	06/12/2019	20:12/2019	1	115	0.10	88.0		
CGUS 00 387-2	Monday, 4 November 2019	08:45:00	06/12/2019	20:12/2019	1	115	0.11	88.0		
1074-138	Monday, 4 November 2019	12:34:05	06/12/2019	20:12/2019	1	115	0.12	91.5		
CGUS 00 387-3	Monday, 4 November 2019	14:55:00	06/12/2019	20:12/2019	1	115	0.08	88.0		
CGUS 00 389-2	Tuesday, 5 November 2019	05:56:00	06/12/2019	20:12/2019	1	115	0.12	91.5		
CGUS 00 389-3	Tuesday, 5 November 2019	12:13:00	06/12/2019	20:12/2019	1	115	0.09	100.0		
1092-137	Tuesday, 5 November 2019	13:04:21	06/12/2019	20:12/2019	1	115	0.10	97.5		
CGUS 00 389-3	Tuesday, 5 November 2019	18:00:00	06/12/2019	20:12/2019	1	115	0.09	95.0		
CGUS 00 390	Tuesday, 5 November 2019	21:45:00	06/12/2019	20:12/2019	1	95	0.11	88.0		
CGUS 00 391	Wednesday, 6 November 2019	06:00:00	06/12/2019	20:12/2019	1	95	0.12	88.0		
CGUS 00 391	Wednesday, 6 November 2019	20:30:00	06/12/2019	20:12/2019	1	95	0.09	100.0		Localised environmental factors
1101-142	Thursday, 7 November 2019	13:09:51	06/12/2019	20:12/2019	1	115	0.09	91.5		
1101-135	Thursday, 7 November 2019	13:09:51	06/12/2019	20:12/2019	1	115	0.09	91.5		
CGUS 00 391	Thursday, 7 November 2019	16:25:00	06/12/2019	20:12/2019	1	115	0.07	88.0		
CGUS 00 394	Friday, 8 November 2019	01:50:00	06/12/2019	20:12/2019	1	115	0.08	88.0		
CGUS 00 395	Friday, 8 November 2019	11:45:00	06/12/2019	20:12/2019	1	115	0.08	88.0		
CGUS 00 396	Friday, 8 November 2019	21:00:00	06/12/2019	20:12/2019	1	95	0.10	88.0		
CGUS 00 396	Saturday, 9 November 2019	06:00:00	06/12/2019	20:12/2019	1	95	0.12	91.5		
1101-133	Saturday, 9 November 2019	12:31:11	06/12/2019	20:12/2019	1	115	0.12	88.0		
CGUS 00 396	Saturday, 9 November 2019	13:15:00	06/12/2019	20:12/2019	1	115	0.07	100.0		
CGUS 00 399	Sunday, 10 November 2019	03:10:00	06/12/2019	20:12/2019	1	95	0.11	88.0		
CGUS 00 400	Sunday, 10 November 2019	10:35:00	06/12/2019	20:12/2019	1	95	0.09	101.9		Localised environmental factors
CGUS 00 401	Sunday, 10 November 2019	16:30:00	06/12/2019	20:12/2019	1	95	0.10	88.0		
CGUS 00 402	Monday, 11 November 2019	05:10:00	06/12/2019	20:12/2019	1	95	0.11	88.0		
CGUS 00 401	Monday, 11 November 2019	15:35:00	06/12/2019	20:12/2019	1	115	0.07	88.0		
CGUS 00 404	Tuesday, 12 November 2019	06:50:00	06/12/2019	20:12/2019	1	95	0.12	88.0		
1074-129	Tuesday, 12 November 2019	12:43:23	06/12/2019	20:12/2019	1	115	0.09	94.0		
1083-156	Tuesday, 12 November 2019	12:43:23	06/12/2019	20:12/2019	1	115	0.09	94.0		
CGUS 00 405	Tuesday, 12 November 2019	13:20:00	06/12/2019	20:12/2019	1	115	0.08	88.0		
CGUS 00 406	Wednesday, 13 November 2019	00:01:00	06/12/2019	20:12/2019	1	95	0.11	95.9		Localised environmental factors
CGUS 00 407	Wednesday, 13 November 2019	14:30:00	06/12/2019	20:12/2019	1	115	0.08	97.5		
CGUS 00 408	Thursday, 14 November 2019	06:00:00	06/12/2019	20:12/2019	1	95	0.11	88.0		
CGUS 00 409	Thursday, 14 November 2019	18:08:00	06/12/2019	20:12/2019	2	105	0.07	88.0		
CGUS 00 410	Friday, 15 November 2019	06:20:00	06/12/2019	20:12/2019	1	95	0.11	88.0		
1101-137	Friday, 15 November 2019	12:01:44	06/12/2019	20:12/2019	1	115	0.08	88.0		
CGUS 00 411	Saturday, 16 November 2019	02:15:00	06/12/2019	20:12/2019	1	95	0.11	88.0		
CGUS 00 412	Saturday, 16 November 2019	18:00:00	06/12/2019	20:12/2019	2	105	0.08	94.0		
CGUS 00 413	Sunday, 17 November 2019	05:30:00	06/12/2019	20:12/2019	1	95	0.12	91.5		
CGUS 00 414	Monday, 18 November 2019	09:00:00	06/12/2019	20:12/2019	1	95	0.10	88.0		
CGUS 00 415	Monday, 18 November 2019	06:15:00	06/12/2019	20:12/2019	1	95	0.12	88.0		
1101-139	Monday, 18 November 2019	12:42:48	06/12/2019	20:12/2019	1	115	0.07	88.0		
CGUS 00 416	Monday, 18 November 2019	18:05:00	06/12/2019	20:12/2019	2	105	0.07	88.0		
CGUS 00 417	Tuesday, 19 November 2019	01:30:00	06/12/2019	20:12/2019	1	95	0.10	88.0		
CGUS 00 418	Tuesday, 19 November 2019	17:50:00	06/12/2019	20:12/2019	1	115	0.08	88.0		
CGUS 00 419	Wednesday, 20 November 2019	01:45:00	06/12/2019	20:12/2019	1	95	0.10	88.0		
CGUS 00 421	Thursday, 21 November 2019	06:15:00	06/12/2019	20:12/2019	1	95	0.10	88.0		
1092-131-616	Thursday, 21 November 2019	12:35:42	06/12/2019	20:12/2019	1	115	0.07	88.0		
1083-157	Thursday, 21 November 2019	12:35:42	06/12/2019	20:12/2019	1	115	0.07	94.0		
1101-147	Thursday, 21 November 2019	12:35:42	06/12/2019	20:12/2019	1	115	0.07	94.0		
CGUS 00 422	Thursday, 21 November 2019	14:45:00	06/12/2019	20:12/2019	1	115	0.09	91.5		
CGUS 00 420	Thursday, 21 November 2019	21:25:00	06/12/2019	20:12/2019	1	95	0.09	88.0		
CGUS 00 423	Friday, 22 November 2019	04:45:00	06/12/2019	20:12/2019	1	95	0.09	88.0		
CGUS 00 424	Friday, 22 November 2019	16:35:00	06/12/2019	20:12/2019	1	115	0.07	88.0		
CGUS 00 425	Saturday, 23 November 2019	01:55:00	06/12/2019	20:12/2019	1	95	0.11	88.0		
CGUS 00 424	Saturday, 23 November 2019	12:48:00	06/12/2019	20:12/2019	1	115	0.07	88.0		
CGUS 00 425-2	Saturday, 23 November 2019	21:05:00	06/12/2019	20:12/2019	1	95	0.09	88.0		Blat occurred when monitor was uploading results
CGUS 00 427	Sunday, 24 November 2019	08:45:00	06/12/2019	20:12/2019	1	115	0.07	88.0		
1083-155	Sunday, 24 November 2019	12:28:46	06/12/2019	20:12/2019	1	95	0.08	95.9		Localised environmental factors
1092-147	Sunday, 24 November 2019	12:28:46	06/12/2019	20:12/2019	1	95	0.08	91.5		
CGUS 00 428	Sunday, 24 November 2019	17:35:00	06/12/2019	20:12/2019	1	95	0.08	88.0		
CGUS 00 429	Monday, 25 November 2019	04:05:00	06/12/2019	20:12/2019	1	95	0.08	88.0		
1092-157	Monday, 25 November 2019	15:39:16	06/12/2019	20:12/2019	1	115	0.09	91.5		
CGUS 00 430	Monday, 25 November 2019	14:25:00	06/12/2019	20:12/2019	1	115	0.09	91.5		
CGUS 00 430-2	Monday, 25 November 2019	21:20:00	06/12/2019	20:12/2019	1	95	0.08	88.0		
CGUS 00 431	Tuesday, 26 November 2019	16:05:00	06/12/2019	20:12/2019	1	115	0.09	88.0		
1085-199	Tuesday, 26 November 2019	12:21:33	06/12/2019	20:12/2019	1	115	0.08	91.5		
CGUS 00 432	Tuesday, 26 November 2019	06:15:00	06/12/2019	20:12/2019	1	95	0.10	100.0		Localised environmental factors
CGUS 00 433	Wednesday, 27 November 2019	06:00:00	06/12/2019	20:12/2019	2	105	0.11	81.9		
1092-158	Wednesday, 27 November 2019	12:31:20	06/12/2019	20:12/2019	1	115	0.08	97.5		
CGUS 00 434	Thursday, 28 November 2019	06:00:00	06/12/2019	20:12/2019	1	105	0.08	91.9		
CGUS 00 436-2	Thursday, 28 November 2019	11:25:00	06/12/2019	20:12/2019	1	115	0.07	81.9		
CGUS 00 435	Thursday, 28 November 2019	12:30:00	06/12/2019	20:12/2019	1	115	0.08	88.0		
1085-158	Thursday, 28 November 2019	12:36:14	06/12/2019	20:12/2019	1	115	0.07	105.9		
CGUS 00 437	Friday, 29 November 2019	12:05:00	06/12/2019	20:12/2019	1	115	0.08	88.0		
CGUS 00 438	Friday, 29 November 2019	18:30:00	06/12/2019	20:12/2019	1	115	0.07	88.0		
CGUS 00 439	Saturday, 30 November 2019	01:05:00	06/12/2019	20:12/2019	1	95	0.07	94.0		
1074-136	Saturday, 30 November 2019	12:35:17	06/12/2019	20:12/2019	1	115	0.07	88.0		
CGUS 00 440	Saturday, 30 November 2019	18:15:00	06/12/2019	20:12/2019	1	115	0.08	91.5		
CGUS 00 440-2	Saturday, 30 November 2019	23:40:00	06/12/2019	20:12/2019	1	95	0.11	88.0		
December										
CGUS 00 441	Sunday, 1 December 2019	06:02:00	07/12/2019	17/01/2020	1	95	0.11	88.0		
1092-139	Sunday, 1 December 2019	12:28:50	07/12/2019	17/01/2020	1	95	0.11	114.2		Could not be ruled out as arising from localised environmental factors
CGUS 00 441-2	Sunday, 1 December 2019	12:45:00	07/12/2019	17/01/2020	1	95	0.07	91.5		
CGUS 00 442	Sunday, 1 December 2019	18:16:00	07/12/2019	17/01/2020	1	95	0.09	94.0		
CGUS 00 442-2	Monday, 2 December 2019	02:25:00	07/12/2019	17/01/2020	1	95	0.11	88.0		
CGUS 00 443	Monday, 2 December 2019	06:23:00	07/12/2019	17/01/2020	1	95	0.11	81.9		
CGUS 00 444	Monday, 2 December 2019	16:30:00	07/12/2019	17/01/2020	1	105	0.08	91.5		
CGUS 00 445	Tuesday, 3 December 2019	01:30:00	07/12/2019	17/01/2020	1	95	0.12	88.0		
CGUS 00 446	Tuesday, 3 December 2019	11:00:00	07/12/2019	17/01/2020	1	115	0.07	94.0		
1092-138	Tuesday, 3 December 2019	12:30:05	07/12/2019	17/01/2020	1	115	0.10	88.0		
1092-159	Tuesday, 3 December 2019	12:31:19	07/12/2019	17/01/2020	1	115	0.07	95.9		
CGUS 00 447	Wednesday, 4 December 2019	18:10:00	07/12/2019	17/01/2020	2	105	0.08	88.0		
CGUS 00 448	Thursday, 5 December 2019	12:30:00	07/12/2019	17/01/2020	1	115	0.08	88.0		
1092-140	Thursday, 5 December 2019	12:40:12	07/12/20							

Monitoring Point: BM08.1 <Cwall North>

Blast monitoring. Airblast overpressure and ground vibration peak particle velocity recorded at private residence to the north, north east of M1535 boundary

Blast Number	Day/Date	Time	Date Obtained	Date Published	Trigger Threshold		BM08.1 at Blast Time		Comments
					Ground Vibration (mm/s)	Airblast Overpressure (dB(L))	Ground Vibration (mm/s)	Airblast Overpressure (dB(L))	
JANUARY									
1146-106	Tuesday, 1 January 2019	12:36:21	06/02/2019	20/02/2019	5	95	0.02	95.9	Localised environmental factors
1146-100	Wednesday, 2 January 2019	12:34:25	06/02/2019	20/02/2019	5	115	0.04	106.0	
822-4	Thursday, 3 January 2019	12:32:00	06/02/2019	20/02/2019	5	115	0.03	97.5	
1146-86A	Friday, 4 January 2019	12:32:00	06/02/2019	20/02/2019	5	115	0.03	97.5	
831-20	Saturday, 5 January 2019	12:40:42	06/02/2019	20/02/2019	5	115	0.01	108.8	
822-2001-2008	Saturday, 5 January 2019	12:40:42	06/02/2019	20/02/2019	5	115	0.03	108.8	
822-6A	Sunday, 6 January 2019	12:39:37	06/02/2019	20/02/2019	1	95	0.07	98.8	Localised environmental factors
1146-102	Sunday, 6 January 2019	12:39:37	06/02/2019	20/02/2019	1	95	0.05	100.0	Localised environmental factors
815-8	Monday, 7 January 2019	12:39:44	06/02/2019	20/02/2019	5	115	0.04	98.8	
1137-102	Tuesday, 8 January 2019	12:38:41	06/02/2019	20/02/2019	5	115	0.03	97.5	
822-15-16	Thursday, 10 January 2019	12:36:21	06/02/2019	20/02/2019	5	115	0.07	95.9	
1138-101	Friday, 11 January 2019	12:36:48	06/02/2019	20/02/2019	5	115	0.05	98.8	
1083-135	Monday, 14 January 2019	12:42:03	06/02/2019	20/02/2019	5	115	0.51	102.8	
1137-101	Tuesday, 15 January 2019	12:42:52	06/02/2019	20/02/2019	1	115	0.04	101.0	
1083-134	Wednesday, 16 January 2019	12:32:56	06/02/2019	20/02/2019	5	115	0.09	98.8	
1137-94	Thursday, 17 January 2019	12:33:15	06/02/2019	20/02/2019	5	115	0.20	98.8	
822-9-10	Saturday, 19 January 2019	12:45:28	06/02/2019	20/02/2019	5	115	0.05	98.8	
1446-18-24	Saturday, 19 January 2019	12:45:28	06/02/2019	20/02/2019	5	115	0.05	98.8	
831-15	Monday, 21 January 2019	12:29:40	06/02/2019	20/02/2019	1	115	0.05	97.5	
1037-105	Monday, 21 January 2019	12:29:40	06/02/2019	20/02/2019	1	115	0.05	97.5	
1137-82-83	Monday, 21 January 2019	12:52:41	06/02/2019	20/02/2019	5	115	0.04	97.5	
1137-100	Tuesday, 22 January 2019	12:34:57	06/02/2019	20/02/2019	5	115	0.03	95.9	
1037-14	Tuesday, 22 January 2019	12:34:57	06/02/2019	20/02/2019	5	115	0.03	95.9	
1146-103	Thursday, 24 January 2019	12:47:18	06/02/2019	20/02/2019	5	115	0.03	98.8	
1146-105	Friday, 25 January 2019	12:35:43	06/02/2019	20/02/2019	5	115	0.02	95.9	
1146-108A	Friday, 25 January 2019	12:14:18	06/02/2019	20/02/2019	5	115	0.03	97.5	
1083-136	Monday, 28 January 2019	13:00:12	06/02/2019	20/02/2019	1	95	0.07	109.9	Localised environmental factors
1137-103	Monday, 28 January 2019	13:00:12	06/02/2019	20/02/2019	1	95	0.07	109.9	Localised environmental factors
822-20	Wednesday, 30 January 2019	15:08:36	06/02/2019	20/02/2019	5	115	0.32	104.2	
822-13	Wednesday, 30 January 2019	15:08:36	06/02/2019	20/02/2019	5	115	0.32	104.2	
FEBRUARY									
1137-101-114	Friday, 1 February 2019	12:30:04	08/03/2019	20/03/2019	5	115	0.06	95.9	
1137-105	Monday, 4 February 2019	12:31:02	08/03/2019	20/03/2019	5	115	0.03	91.5	
1128-102	Monday, 4 February 2019	12:31:02	08/03/2019	20/03/2019	5	115	0.03	91.5	
1137-95	Tuesday, 5 February 2019	12:34:55	08/03/2019	20/03/2019	1	115	0.05	91.5	
822-12	Friday, 8 February 2019	12:07:18	08/03/2019	20/03/2019	5	115	0.03	95.9	
822-7	Friday, 8 February 2019	12:07:18	08/03/2019	20/03/2019	5	115	0.03	95.9	
1137-113	Saturday, 9 February 2019	12:45:17	08/03/2019	20/03/2019	5	115	0.06	102.8	
1138-135	Sunday, 10 February 2019	12:45:17	08/03/2019	20/03/2019	5	115	0.03	98.8	Localised environmental factors
822-17	Monday, 11 February 2019	12:42:31	08/03/2019	20/03/2019	5	115	0.06	98.8	
1137-110-111	Wednesday, 13 February 2019	12:40:21	08/03/2019	20/03/2019	5	115	0.04	98.8	
1137-99	Wednesday, 13 February 2019	12:40:21	08/03/2019	20/03/2019	5	115	0.04	98.8	
822-18	Thursday, 14 February 2019	12:35:24	08/03/2019	20/03/2019	5	115	0.04	98.8	
1137-531	Thursday, 14 February 2019	12:35:24	08/03/2019	20/03/2019	5	115	0.02	97.5	
1137-532	Friday, 15 February 2019	12:41:17	08/03/2019	20/03/2019	5	115	0.03	97.5	
1128-109	Friday, 15 February 2019	12:46:10	08/03/2019	20/03/2019	5	115	0.07	97.5	
822-19	Monday, 18 February 2019	12:45:56	08/03/2019	20/03/2019	5	115	1.17	112.8	non-related to blasting practices and resulted from localised activity
1137-112	Monday, 18 February 2019	12:45:56	08/03/2019	20/03/2019	5	115	1.25	105.5	
813-501-502	Friday, 22 February 2019	12:26:24	08/03/2019	20/03/2019	5	115	0.08	94.0	
813-4	Friday, 22 February 2019	12:26:24	08/03/2019	20/03/2019	5	115	0.08	94.0	
1137-97-98	Saturday, 23 February 2019	12:31:19	08/03/2019	20/03/2019	5	115	0.05	101.0	
1137-109	Saturday, 23 February 2019	12:31:19	08/03/2019	20/03/2019	5	115	0.08	104.2	
1137-114	Saturday, 23 February 2019	12:31:19	08/03/2019	20/03/2019	5	115	0.06	101.0	
1074-121	Monday, 25 February 2019	12:40:25	08/03/2019	20/03/2019	5	115	0.05	98.8	
813-4	Tuesday, 26 February 2019	12:35:30	08/03/2019	20/03/2019	5	115	0.07	91.5	
1137-204	Wednesday, 27 February 2019	12:41:40	08/03/2019	20/03/2019	5	115	0.03	88.0	
1125-122	Wednesday, 27 February 2019	12:45:58	08/03/2019	20/03/2019	5	115	0.05	88.0	
1137-132	Thursday, 28 February 2019	12:35:07	08/03/2019	20/03/2019	5	115	0.02	91.5	
MARCH									
813-3	Saturday, 2 March 2019	12:38:50	10/04/2019	11/04/2019	5	115	0.02	100.0	
1137-106	Sunday, 3 March 2019	12:37:10	10/04/2019	11/04/2019	5	95	0.03	88.0	
813-506A	Monday, 4 March 2019	12:04:55	10/04/2019	11/04/2019	5	115	0.02	88.0	
1128-104	Monday, 4 March 2019	12:31:21	10/04/2019	11/04/2019	5	115	0.04	88.0	
1137-107	Tuesday, 5 March 2019	12:38:10	10/04/2019	11/04/2019	5	115	0.03	97.5	
1128-120	Thursday, 7 March 2019	12:39:29	10/04/2019	11/04/2019	5	115	0.02	95.9	
813-5	Friday, 8 March 2019	12:30:02	10/04/2019	11/04/2019	5	115	0.06	95.9	
1128-109-110	Saturday, 9 March 2019	12:32:15	10/04/2019	11/04/2019	5	95	0.03	91.5	
1128-119	Tuesday, 12 March 2019	12:41:40	10/04/2019	11/04/2019	5	115	0.04	95.9	
1119-136	Tuesday, 12 March 2019	12:41:40	10/04/2019	11/04/2019	5	115	0.04	95.9	
1120-136	Wednesday, 13 March 2019	12:38:51	10/04/2019	11/04/2019	5	115	0.04	94.0	
CGUS 001	Friday, 15 March 2019	12:36:51	10/04/2019	11/04/2019	5	115	0.03	91.5	
1119-159	Saturday, 16 March 2019	12:20:26	10/04/2019	11/04/2019	5	115	0.05	91.5	
CGUS 002	Saturday, 16 March 2019	12:27:16	10/04/2019	11/04/2019	5	115	0.03	101.0	
813-13	Monday, 18 March 2019	12:41:06	10/04/2019	11/04/2019	5	115	0.04	95.9	
CGUS 003	Monday, 18 March 2019	12:54:44	10/04/2019	11/04/2019	5	115	0.04	105.5	
1119-135	Monday, 18 March 2019	12:54:44	10/04/2019	11/04/2019	5	115	0.04	105.5	
813-6	Wednesday, 20 March 2019	12:33:47	10/04/2019	11/04/2019	5	115	0.04	88.0	
CGUS 004	Wednesday, 20 March 2019	12:43:23	10/04/2019	11/04/2019	5	115	0.01	88.0	
1119-516B	Wednesday, 20 March 2019	12:46:15	10/04/2019	11/04/2019	5	115	0.02	91.5	
1119-516A	Friday, 22 March 2019	12:09:54	10/04/2019	11/04/2019	5	115	0.02	91.5	
CGUS 005	Friday, 22 March 2019	12:11:10	10/04/2019	11/04/2019	5	115	0.03	91.5	
813-14	Saturday, 23 March 2019	12:03:51	10/04/2019	11/04/2019	5	115	0.03	98.8	
1119-137	Saturday, 23 March 2019	12:12:02	10/04/2019	11/04/2019	5	115	0.03	88.0	
1119-138	Sunday, 24 March 2019	12:28:56	10/04/2019	11/04/2019	1	95	0.03	91.5	
CGUS 006	Sunday, 24 March 2019	12:30:38	10/04/2019	11/04/2019	5	115	0.03	88.0	
CGUS 007	Monday, 25 March 2019	12:30:00	10/04/2019	11/04/2019	5	115	0.01	88.0	
813-7	Tuesday, 26 March 2019	12:31:52	10/04/2019	11/04/2019	5	115	0.04	101.0	
1137-500-507	Tuesday, 26 March 2019	12:31:52	10/04/2019	11/04/2019	5	115	0.04	101.0	
CGUS 008	Wednesday, 27 March 2019	12:38:00	10/04/2019	11/04/2019	5	115	0.02	98.8	
CGUS 009	Thursday, 28 March 2019	12:36:15	10/04/2019	11/04/2019	5	115	0.01	97.5	
813-8	Friday, 29 March 2019	12:26:04	10/04/2019	11/04/2019	5	115	0.06	88.0	
813-505	Friday, 29 March 2019	12:26:04	10/04/2019	11/04/2019	5	115	0.06	88.0	
CGUS 010	Friday, 29 March 2019	12:38:40	10/04/2019	11/04/2019	5	115	0.01	88.0	
1128-111	Saturday, 30 March 2019	12:37:05	10/04/2019	11/04/2019	5	115	0.05	108.8	
CGUS 011	Sunday, 31 March 2019	12:56:11	10/04/2019	11/04/2019	1	95	0.05	91.5	
1110-137	Sunday, 31 March 2019	12:56:11	10/04/2019	11/04/2019	1	95	0.05	91.5	
APRIL									
1119-106	Monday, 1 April 2019	12:44:10	16/04/2019	20/05/2019	5	115	0.02	88.0	
CGUS 012	Monday, 1 April 2019	12:46:00	1						

CUIS ID	Day	Start Time	End Time	Start Date	End Date	Start Time	End Time	Start Date	End Date	Notes
CUIS 00 263	Sunday	01:00:00	08:10:00	18/10/2019	18/10/2019	1	95	0.01	81.9	
CUIS 00 264	Sunday	01:00:00	07:53:00	18/10/2019	18/10/2019	1	95	0.01	81.9	
777.6	Sunday	11:07:58	08/10/2019	18/10/2019	1	95	0.04	95.8	Localised environmental factors	
CUIS 00 264-1	Sunday	11:55:00	08/10/2019	18/10/2019	1	95	0.01	88.0		
CUIS 00 265	Monday	02:00:00	04:10:00	18/10/2019	18/10/2019	1	95	0.01	81.9	
1065.566	Monday	12:23:40	08/10/2019	18/10/2019	5	115	0.09	91.5		
CUIS 00 266	Monday	18:20:00	08/10/2019	18/10/2019	2	105	0.01	88.0		
CUIS 00 267	Tuesday	04:15:00	08/10/2019	18/10/2019	1	95	0.01	81.9		
CUIS 00 268	Tuesday	15:52:00	08/10/2019	18/10/2019	5	115	0.19	106.0		
CUIS 00 269	Wednesday	01:07:00	08/10/2019	18/10/2019	1	95	0.06	88.0		
1074.126	Wednesday	12:37:51	08/10/2019	18/10/2019	1	95	0.03	94.0		
CUIS 00 270	Wednesday	17:30:00	08/10/2019	18/10/2019	5	115	0.01	88.0		
CUIS 00 271	Thursday	15:40:00	08/10/2019	18/10/2019	5	115	0.01	91.5		
CUIS 00 272	Friday	09:46:00	08/10/2019	18/10/2019	1	95	0.03	88.0		
777.4.96	Friday	13:35:45	08/10/2019	18/10/2019	5	115	0.05	102.8		
768	Friday	15:45:36	08/10/2019	18/10/2019	5	115	0.15	104.2		
CUIS 00 274	Friday	16:00:00	08/10/2019	18/10/2019	5	115	0.03	88.0		
CUIS 00 275	Saturday	07:00:00	08/10/2019	18/10/2019	5	115	0.07	95.9		
CUIS 00 276	Saturday	18:10:00	08/10/2019	18/10/2019	2	105	0.02	88.0		
CUIS 00 277	Sunday	03:30:00	08/10/2019	18/10/2019	1	95	0.03	88.0	Localised environmental factors	
CUIS 00 278	Sunday	16:37:12	08/10/2019	18/10/2019	1	95	0.05	101.0	Localised environmental factors	
CUIS 00 279	Monday	06:15:00	08/10/2019	18/10/2019	1	95	0.01	88.0	Localised environmental factors	
1074.135	Monday	12:26:52	08/10/2019	18/10/2019	5	115	0.07	116.1		
CUIS 00 280	Monday	18:30:11	08/10/2019	18/10/2019	2	105	0.04	100.0		
CUIS 00 281	Tuesday	09:30:00	08/10/2019	18/10/2019	5	115	0.01	88.0		
CUIS 00 282	Tuesday	19:11:00	08/10/2019	18/10/2019	2	105	0.03	88.0		
CUIS 00 283	Wednesday	04:56:53	08/10/2019	18/10/2019	1	95	0.01	88.0		
106	Wednesday	16:41:23	08/10/2019	18/10/2019	1	95	0.05	88.0		
CUIS 00 284	Wednesday	17:25:00	08/10/2019	18/10/2019	1	95	0.03	88.0		
CUIS 00 285	Thursday	13:30:00	08/10/2019	18/10/2019	1	95	0.01	88.0		
CUIS 00 285-2	Thursday	17:15:00	08/10/2019	18/10/2019	1	95	0.01	88.0		
CUIS 00 286	Friday	07:45:00	08/10/2019	18/10/2019	1	95	0.01	81.9		
768.2	Friday	10:22:14	08/10/2019	18/10/2019	5	115	0.08	88.0		
108.4	Friday	12:38:14	08/10/2019	18/10/2019	1	95	0.01	88.0		
CUIS 00 287	Friday	19:45:00	08/10/2019	18/10/2019	1	95	0.01	94.0		
CUIS 00 285-3	Friday	21:45:00	08/10/2019	18/10/2019	1	95	0.01	88.0		
CUIS 00 288	Saturday	14:30:00	08/10/2019	18/10/2019	1	95	0.01	88.0		
CUIS 00 288	Saturday	19:15:00	08/10/2019	18/10/2019	5	115	0.03	94.0		
CUIS 00 291	Sunday	16:45:00	08/10/2019	18/10/2019	1	95	0.01	91.5		
CUIS 00 290	Sunday	21:45:00	08/10/2019	18/10/2019	1	95	0.01	88.0		
CUIS 00 292	Monday	04:50:00	08/10/2019	18/10/2019	1	95	0.01	95.8	Localised environmental factors	
CUIS 00 291-2	Monday	14:49:00	08/10/2019	18/10/2019	5	115	0.03	110.2		
108.5	Monday	19:31:12	08/10/2019	18/10/2019	1	95	0.01	88.0		
CUIS 00 293	Monday	19:20:00	08/10/2019	18/10/2019	5	115	0.03	103.5		
1065.567	Tuesday	12:30:00	08/10/2019	18/10/2019	5	115	0.04	95.9		
CUIS 00 294	Tuesday	21:50:00	08/10/2019	18/10/2019	1	95	0.01	88.0		
CUIS 00 295	Wednesday	06:30:00	08/10/2019	18/10/2019	1	95	0.01	91.5		
CUIS 00 296	Wednesday	18:30:00	08/10/2019	18/10/2019	2	105	0.01	94.0		
CUIS 00 297	Thursday	09:10:00	08/10/2019	18/10/2019	1	95	0.01	88.0		
CUIS 00 298	Thursday	18:30:00	08/10/2019	18/10/2019	2	105	0.01	88.0		
CUIS 00 299	Friday	06:20:00	08/10/2019	18/10/2019	1	95	0.01	88.0		
1083.138	Friday	13:20:40	08/10/2019	18/10/2019	1	95	0.01	106.0		
CUIS 00 300	Saturday	09:30:00	08/10/2019	18/10/2019	1	95	0.06	109.5	Localised environmental factors	
CUIS 00 301	Saturday	18:25:00	08/10/2019	18/10/2019	2	105	0.01	88.0		
CUIS 00 302	Sunday	09:30:00	08/10/2019	18/10/2019	1	95	0.01	81.9		
CUIS 00 303	Sunday	16:45:00	08/10/2019	18/10/2019	1	95	0.01	91.5		
CUIS 00 304	Monday	03:30:00	08/10/2019	18/10/2019	1	95	0.01	88.0		
CUIS 00 305	Monday	14:54:00	08/10/2019	18/10/2019	1	95	0.04	88.0		
CUIS 00 306	Tuesday	04:09:00	08/10/2019	18/10/2019	1	95	0.01	88.0		
CUIS 00 307	Tuesday	17:11:00	08/10/2019	18/10/2019	5	115	0.01	88.0		
CUIS 00 308	Wednesday	09:30:00	08/10/2019	18/10/2019	1	95	0.01	88.0		
CUIS 00 309	Wednesday	19:20:00	08/10/2019	18/10/2019	1	95	0.01	81.9		
CUIS 00 310	Wednesday	24:00:00	08/10/2019	18/10/2019	5	115	0.01	88.0		
CUIS 00 312	Thursday	06:20:00	08/10/2019	18/10/2019	1	95	0.01	88.0		
769.1	Thursday	10:45:44	08/10/2019	18/10/2019	1	95	0.01	88.0		
CUIS 00 311	Thursday	18:00:00	08/10/2019	18/10/2019	1	95	0.01	88.0		
CUIS 00 311-3	Thursday	17:22:00	08/10/2019	18/10/2019	1	95	0.01	88.0		
CUIS 00 312	Thursday	20:07:00	08/10/2019	18/10/2019	1	95	0.01	88.0		
CUIS 00 313	Friday	06:10:00	08/10/2019	18/10/2019	1	95	0.01	81.9		
CUIS 00 314	Friday	16:07:00	08/10/2019	18/10/2019	1	95	0.01	91.5		
CUIS 00 315	Saturday	02:55:00	08/10/2019	18/10/2019	1	95	0.01	88.0	Localised environmental factors	
CUIS 00 316	Saturday	16:50:00	08/10/2019	18/10/2019	1	95	0.01	91.5		
CUIS 00 317	Sunday	06:05:00	08/10/2019	18/10/2019	1	95	0.01	88.0		
CUIS 00 318	Sunday	18:13:00	08/10/2019	18/10/2019	1	95	0.01	94.0		
CUIS 00 319	Monday	09:25:00	08/10/2019	18/10/2019	1	95	0.01	88.0		
CUIS 00 320	Monday	19:40:00	08/10/2019	18/10/2019	2	105	0.01	88.0		

CUIS ID	Day	Start Time	End Time	Start Date	End Date	Start Time	End Time	Start Date	End Date	Notes
CUIS 00 321	Tuesday	05:10:00	11/11/2019	19/11/2019	1	95	0.01	81.9		
CUIS 00 322	Tuesday	16:00:00	13/11/2019	19/11/2019	5	115	0.01	88.0		
CUIS 00 323	Wednesday	11:45:00	11/11/2019	19/11/2019	1	95	0.01	81.9		
764.1	Wednesday	12:30:55	11/11/2019	19/11/2019	5	115	0.02	88.0		
CUIS 00 324	Wednesday	13:42:50	13/11/2019	19/11/2019	5	115	0.01	88.0		
CUIS 00 324	Wednesday	21:40:00	11/11/2019	19/11/2019	1	95	0.01	88.0		
CUIS 00 325	Thursday	08:40:00	11/11/2019	19/11/2019	5	115	0.01	91.5		
1083.137	Thursday	13:41:05	11/11/2019	19/11/2019	5	115	0.06	88.0		
1074.126	Thursday	15:41:05	11/11/2019	19/11/2019	1	95	0.01	88.0		
CUIS 00 326	Thursday	21:51:00	11/11/2019	19/11/2019	1	95	0.01	88.0		
CUIS 00 327	Friday	10:30:00	11/11/2019	19/11/2019	5	115	0.09	100.0		
CUIS 00 328	Friday	22:20:00	11/11/2019	19/11/2019	1	95	0.01	88.0		
CUIS 00 329	Saturday	08:15:00	11/11/2019	19/11/2019	5	115	0.01	88.0		
CUIS 00 330	Sunday	01:52:00	11/11/2019	19/11/2019	1	95	0.01	88.0		
CUIS 00 331	Sunday	21:12:00	11/11/2019	19/11/2019	1	95	0.01	88.0		
CUIS 00 332	Monday	08:45:00	11/11/2019	19/11/2019	5	115	0.01	88.0		
CUIS 00 334	Monday	16:30:00	11/11/2019	19/11/2019	5	115	0.03	101.0		
CUIS 00 334	Tuesday	09:40:00	11/11/2019	19/11/2019	1	95	0.01	88.0		
1092.135	Tuesday	12:37:54	11/11/2019	19/11/2019	5	115	0.04	104.9		
1110.149	Tuesday	17:37:54	11/11/2019	19/11/2019	5	115	0.06	104.9		
1119.139	Wednesday	10:36:55	11/11/2019	19/11/2019	5	115	0.01	88.0		
CUIS 00 335	Wednesday	19:05:50	11/11/2019	19/11/2019	5	115	0.01	88.0		
CUIS 00 336	Wednesday	18:30:00	11/11/2019	19/11/2019	5	115	0.06	94.0		
CUIS 00 337	Thursday	03:30:00	11/11/2019	19/11/2019	1	95	0.01	88.0		
CUIS 00 338	Thursday	10:40:00	11/11/2019	19/11/2019	5	115	0.01	88.0		
CUIS 00 339	Thursday	18:30:00	11/11/2019	19/11/2019	5	115	0.01	88.0		
CUIS 00 339-2	Friday	03:30:00	11/11/2019	19/11/2019	1	95	0.01	88.0		
CUIS 00 340	Friday	09:00:00	11/11/2019	19/11/2019	1	95	0.01	88.0		
1119.140	Friday	16:40:11	11/11/2019	19/11/2019	1	95	0.01	91.5		
CUIS 00 340-2	Friday	16:00:00	11/11/2019	19/11/2019	1	95	0.01	88.0		
CUIS 00 340-3	Friday	21:40:00	11/11/2019	19/11/2019	1	95	0.01	88.0		
CUIS 00 341	Saturday	11:00:00	11/11/2019	19/11/2019	5	115	0.01	88.0		
CUIS 00 341-2	Saturday	16:50:00	11/11/2019	19/11/2019	5	115	0.02	88.0		
CUIS 00 342	Saturday	22:30:00	11/11/2019	19/11/2019	1	95	0.01	88.0		
CUIS 00 343	Sunday	11:45:00	11/11/2019	19/11/2019	1	95	0.01	81.9		
1074.127	Sunday	12:28:47	11/11/2019	19/11/2019	1	95	0.13	88.0		
CUIS 00 344	Sunday	18:30:00	11/11/2019	19/11/2019	1	95	0.01	88.0		
CUIS 00 345	Monday	04:15:00	11/11/2019	19/11/2019	1	95	0.01	88.0		
CUIS 00 346	Monday	15:15:00	11/11/2019	19/11/2019	5	115	0.01	88.0		
CUIS 00 346-2	Monday	22:15:00	11/11/2019	19/11/2019	1	95	0.01	88		

Blow ID	Date	Time	Start	End	Pressure	Duration	Notes
1100-130	Friday, 1 November 2019	06:22:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1100-131	Friday, 1 November 2019	11:45:00	06/12/2019	20/12/2019	1	115	0.05 95.8
1100-132	Saturday, 2 November 2019	04:55:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1110-154	Saturday, 2 November 2019	12:44:28	06/12/2019	20/12/2019	1	115	1.14 105.3
1100-134	Saturday, 2 November 2019	15:55:00	06/12/2019	20/12/2019	1	115	0.01 88.0
1100-135	Saturday, 2 November 2019	18:30:00	06/12/2019	20/12/2019	2	105	0.01 88.0
1100-136	Sunday, 3 November 2019	01:05:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1100-137	Sunday, 3 November 2019	05:45:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1100-138	Sunday, 3 November 2019	16:25:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1100-139	Sunday, 3 November 2019	21:50:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1100-140	Monday, 4 November 2019	01:05:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1100-141	Monday, 4 November 2019	07:42:00	06/12/2019	20/12/2019	1	115	0.01 88.0
1100-142	Monday, 4 November 2019	08:45:00	06/12/2019	20/12/2019	1	115	0.01 88.0
1074-138	Monday, 4 November 2019	12:34:05	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-137	Monday, 4 November 2019	14:55:00	06/12/2019	20/12/2019	1	115	0.07 88.8
1092-138	Tuesday, 5 November 2019	05:56:00	06/12/2019	20/12/2019	1	115	0.01 88.0
1092-139	Tuesday, 5 November 2019	12:13:00	06/12/2019	20/12/2019	1	115	0.01 88.0
1092-140	Tuesday, 5 November 2019	14:55:00	06/12/2019	20/12/2019	1	115	0.01 88.0
1092-141	Tuesday, 5 November 2019	18:00:00	06/12/2019	20/12/2019	1	115	0.01 88.0
1092-142	Tuesday, 5 November 2019	21:41:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-143	Wednesday, 6 November 2019	06:00:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-144	Wednesday, 6 November 2019	20:30:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1100-145	Thursday, 7 November 2019	13:09:51	06/12/2019	20/12/2019	1	115	0.01 88.0
1100-146	Thursday, 7 November 2019	13:09:51	06/12/2019	20/12/2019	1	115	0.01 88.0
1092-147	Thursday, 7 November 2019	16:25:00	06/12/2019	20/12/2019	1	115	0.01 88.0
1092-148	Friday, 8 November 2019	01:50:00	06/12/2019	20/12/2019	1	115	0.01 88.0
1092-149	Friday, 8 November 2019	11:45:00	06/12/2019	20/12/2019	1	115	0.01 88.0
1092-150	Friday, 8 November 2019	21:00:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1100-151	Saturday, 9 November 2019	13:31:11	06/12/2019	20/12/2019	1	115	0.01 88.0
1092-152	Saturday, 9 November 2019	15:15:00	06/12/2019	20/12/2019	1	115	0.01 88.0
1092-153	Saturday, 9 November 2019	19:10:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-154	Sunday, 10 November 2019	10:35:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-155	Sunday, 10 November 2019	16:30:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-156	Monday, 11 November 2019	05:10:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-157	Monday, 11 November 2019	15:35:00	06/12/2019	20/12/2019	1	115	0.02 100.0
1092-158	Tuesday, 12 November 2019	06:50:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1074-139	Tuesday, 12 November 2019	12:43:23	06/12/2019	20/12/2019	1	115	0.09 119.7
1083-156	Tuesday, 12 November 2019	12:43:23	06/12/2019	20/12/2019	1	115	0.09 119.7
1092-159	Tuesday, 12 November 2019	13:20:00	06/12/2019	20/12/2019	1	115	0.06 100.0
1092-160	Wednesday, 13 November 2019	00:01:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-161	Wednesday, 13 November 2019	14:30:00	06/12/2019	20/12/2019	1	115	0.06 100.0
1092-162	Thursday, 14 November 2019	06:00:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-163	Thursday, 14 November 2019	18:08:00	06/12/2019	20/12/2019	2	105	0.03 95.8
1092-164	Friday, 15 November 2019	06:20:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1100-157	Friday, 15 November 2019	13:01:44	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-165	Saturday, 16 November 2019	02:15:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-166	Saturday, 16 November 2019	18:00:00	06/12/2019	20/12/2019	2	105	0.02 94.0
1092-167	Sunday, 17 November 2019	08:30:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-168	Monday, 18 November 2019	06:15:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1100-159	Monday, 18 November 2019	12:42:48	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-169	Monday, 18 November 2019	18:05:00	06/12/2019	20/12/2019	2	105	0.01 88.0
1092-170	Tuesday, 19 November 2019	01:30:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-171	Tuesday, 19 November 2019	06:50:00	06/12/2019	20/12/2019	1	115	0.01 88.0
1092-172	Wednesday, 20 November 2019	01:45:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-173	Thursday, 21 November 2019	06:15:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-174	Thursday, 21 November 2019	12:35:42	06/12/2019	20/12/2019	1	115	0.01 88.0
1083-157	Thursday, 21 November 2019	12:35:42	06/12/2019	20/12/2019	1	115	0.01 88.0
1100-161	Thursday, 21 November 2019	12:35:42	06/12/2019	20/12/2019	1	115	0.01 88.0
1092-175	Thursday, 21 November 2019	14:45:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-176	Friday, 22 November 2019	01:35:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-177	Friday, 22 November 2019	06:45:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-178	Saturday, 23 November 2019	01:55:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-179	Saturday, 23 November 2019	12:48:00	06/12/2019	20/12/2019	1	115	0.01 88.0
1092-180	Saturday, 23 November 2019	21:05:00	06/12/2019	20/12/2019	1	115	0.01 88.0
1092-181	Sunday, 24 November 2019	08:45:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1083-158	Sunday, 24 November 2019	12:28:44	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-182	Sunday, 24 November 2019	12:28:44	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-183	Monday, 25 November 2019	17:35:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-184	Monday, 25 November 2019	06:45:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-185	Monday, 25 November 2019	15:39:16	06/12/2019	20/12/2019	1	115	0.03 108.4
1092-186	Monday, 25 November 2019	14:25:00	06/12/2019	20/12/2019	1	115	0.02 91.5
1092-187	Monday, 25 November 2019	21:20:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-188	Tuesday, 26 November 2019	16:05:00	06/12/2019	20/12/2019	1	115	0.11 102.0
1083-159	Tuesday, 26 November 2019	12:21:33	06/12/2019	20/12/2019	1	115	0.15 106.3
1092-189	Tuesday, 26 November 2019	06:15:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1092-190	Wednesday, 27 November 2019	06:00:00	06/12/2019	20/12/2019	2	105	0.01 88.0
1092-191	Wednesday, 27 November 2019	12:31:20	06/12/2019	20/12/2019	1	115	0.01 88.0
1092-192	Thursday, 28 November 2019	06:30:00	06/12/2019	20/12/2019	1	105	0.01 88.0
1092-193	Thursday, 28 November 2019	11:25:00	06/12/2019	20/12/2019	1	115	0.01 88.0
1092-194	Thursday, 28 November 2019	12:30:00	06/12/2019	20/12/2019	1	115	0.01 88.0
1083-158	Thursday, 28 November 2019	12:36:14	06/12/2019	20/12/2019	1	115	0.01 88.0
1092-195	Friday, 29 November 2019	12:05:00	06/12/2019	20/12/2019	1	115	0.01 88.0
1092-196	Friday, 29 November 2019	18:30:00	06/12/2019	20/12/2019	1	115	0.02 91.5
1092-197	Saturday, 30 November 2019	02:15:00	06/12/2019	20/12/2019	1	95	0.01 88.0
1074-136	Saturday, 30 November 2019	13:35:17	06/12/2019	20/12/2019	1	115	0.04 95.8
1092-198	Saturday, 30 November 2019	18:15:00	06/12/2019	20/12/2019	1	115	0.06 97.5
1092-199	Saturday, 30 November 2019	23:40:00	06/12/2019	20/12/2019	1	95	0.01 88.0

Blow ID	Date	Time	Start	End	Pressure	Duration	Notes
1092-199	Sunday, 1 December 2019	06:02:00	07/12/2019	17/01/2020	1	95	0.01 88.0
1092-200	Sunday, 1 December 2019	12:28:50	07/12/2019	17/01/2020	1	95	0.05 104.9
1092-201	Sunday, 1 December 2019	12:45:00	07/12/2019	17/01/2020	1	95	0.05 109.0
1092-202	Sunday, 1 December 2019	19:16:00	07/12/2019	17/01/2020	1	95	0.01 88.0
1092-203	Monday, 2 December 2019	02:25:00	07/12/2019	17/01/2020	1	95	0.01 88.0
1092-204	Monday, 2 December 2019	06:23:00	07/12/2019	17/01/2020	1	95	0.01 88.0
1092-205	Monday, 2 December 2019	18:30:00	07/12/2019	17/01/2020	1	95	0.12 109.0
1092-206	Tuesday, 3 December 2019	01:30:00	07/12/2019	17/01/2020	1	95	0.01 88.0
1092-207	Tuesday, 3 December 2019	11:00:00	07/12/2019	17/01/2020	1	115	0.01 88.0
1092-208	Tuesday, 3 December 2019	12:30:05	07/12/2019	17/01/2020	1	115	0.01 88.0
1092-209	Tuesday, 3 December 2019	12:31:19	07/12/2019	17/01/2020	1	115	0.02 100.0
1092-210	Wednesday, 4 December 2019	18:10:00	07/12/2019	17/01/2020	2	105	0.02 84.0
1092-211	Thursday, 5 December 2019	13:30:00	07/12/2019	17/01/2020	1	115	0.01 88.0
1092-212	Thursday, 5 December 2019	14:40:12	07/12/2019	17/01/2020	1	115	0.16 104.2
1092-213	Thursday, 5 December 2019	14:40:12	07/12/2019	17/01/2020	1	115	0.16 104.2
1092-214	Thursday, 5 December 2019	19:35:00	07/12/2019	17/01/2020	1	115	0.16 104.2
1092-215	Friday, 6 December 2019	18:00:00	07/12/2019	17/01/2020	2	105	0.27 104.9
1092-216	Friday, 6 December 2019	06:15:00	07/12/2019	17/01/2020	1	95	0.01 88.0
1092-217	Friday, 6 December 2019	13:53:13	07/12/2019	17/01/2020	1	115	0.07 88.0
1092-							



Cyanide

Monitoring Point: 48
Water quality monitoring, automated sampler located at the processing plant

Frequency	Month	No Sampled during Month	Total Cyanide (mg/L)				Comments
			Minimum	Mean	Median	Maximum	
Weekly	January	4	21.0	35.4	37.4	45.9	
Weekly	February	4	3.2	16.5	15.6	31.6	
Weekly	March	5	6.1	22.6	25.6	29.3	
Weekly	April	4	4.1	21.9	26.8	29.8	
Weekly	May	4	0.8	13.1	12.1	27.5	
Weekly	June	4	26.2	33.8	34.8	39.5	
Weekly	July	4	12.6	29.8	33.2	40.5	
Weekly	August	4	0.2	3.4	3.8	5.9	
Weekly	September	5	0.1	0.8	0.6	1.5	
Weekly	October	4	0.4	1.4	1.3	2.5	
Weekly	November	4	0.12	1.20	0.58	3.52	
Weekly	December	5	0.87	1.66	1.26	2.74	

Frequency	Month	No Sampled during Month	WAD Cyanide (mg/L)		Concentration Limits		Comments
			Minimum	Maximum	90th Percentile	100th Percentile	
Twice daily	January	56	0	11.1	20ppm	30ppm	Plant shutdown from morning 22/01 to afternoon 24/01
Twice daily	February	54	0	8.7	20ppm	30ppm	Plant shutdown afternoon 13/02 and morning 14/02
Twice daily	March	52	0	8.6	20ppm	30ppm	Plant shutdown 04/03 afternoon to 08/03 afternoon, 21/03 morning
Twice daily	April	56	0.02	6.6	20ppm	30ppm	
Twice daily	May	62	1.11	13.7	20ppm	30ppm	
Twice daily	June	40	0.06	5.6	20ppm	30ppm	Plant shutdown 11/06 afternoon to 21/06 morning
Twice daily	July	62	0	15.1	20ppm	30ppm	
Twice daily	August	52	0.04	7.2	20ppm	30ppm	Plant shutdown 05/08 afternoon to 10/8 afternoon
Twice daily	September	60	0.3	6.4	20ppm	30ppm	
Twice daily	October	62	0	8.9	20ppm	30ppm	Swaped from STSF to NTSF on the 12/10/19
Twice daily	November	57	0	8.4	20ppm	30ppm	Plant shutdown 26/11 morning to 27/11 afternoon
Twice daily	December	62	0	8.5	20ppm	30ppm	



EPL Exceedances

