



September 30, 2018

Manager of Licensing
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0

Water Resources Officer, INAC
Nunavut District, Nunavut Region
P.O. Box 100
Iqaluit, NU X0A 0H0

RE: Water Licence 2AM-MRY1325 Monthly SNP Report – August 2018

The following is the monthly report for August 2018 as required under Part I, Item 21 of the Type 'A' Water Licence 2AM-MRY1325 (the Licence). Part I, Item 21 of the above referenced Water Licence states:

"The Licensee shall submit to the Board, within thirty (30) days following the month being reported, a Monthly Monitoring Report. The Report shall include:

- a. All data and information required by this Part and generated by the Monitoring Program in the tables of Schedule I;*
- b. An assessment of data to identified area of non-compliance with regulated discharge parameters referred to in Part F"*

Monitoring Program

During the month of August 2018, water samples were collected as part of the Water Licence Monitoring Program.

Table 1 presents a list of samples/monitoring required under the Licence and the details concerning which water quality samples were collected along with sample date/laboratory identification number as appropriate. Analytical water quality testing results received are presented in Table 2. Volumes consumed for domestic and industrial water purposes and the volumes of effluent discharged at the Mary River Mine Site and Milne Port Camp are presented in the attached Table 3.

Monitoring Program Results

A) Water Sampling and Analysis Results

Table 2 provides the analytical results related to the Monitoring Program sampling requirements for August 2018. There were no exceedences of the applicable criteria during the sampling period.

B) Flow and Volume Measurements

Table 3 provides a breakdown of volume measurements as requested in Part I, Item 9 of the Water Licence for August 2018.

We trust that the information provided in this monthly report is acceptable and should you have any questions regarding this report please contact myself, William Bowden (ext. 6016), or Timothy Ray Sewell at 416.364.8820 ext. 6054.

Regards,

A handwritten signature in black ink, appearing to read "Connor Devereaux".

Connor Devereaux
Environmental Superintendent

Reviewed by:

A handwritten signature in black ink, appearing to read "Christopher Murray".

Christopher Murray
Environmental & Regulatory Compliance Manager

Attach: Tables 1, 2, and 3

Cc: Jonathon Mesher, Ian Parsons (CIRNAC); Grant Goddard, Megan Lord-Hoyle, Timothy Ray Sewell, Sylvain Proulx, Gerald Rogers, Francois Gaudrau, William Bowden (Baffinland); Fai Ndofo, Sean Joseph (QIA)

Table 1: Monitoring Program Water Sampling Summary for August 2018

Monitoring Program Station	Sampling Date	Lab ID#	Comment
Milne Port			
MP-01 (Sewage Treatment Facility)	8/22/2018	L2152768-1	Discharge volume reported daily
MP-01a (Polishing Waste Stabilization Pond)	8/28/2018	L2155757-1	Volume reported daily during discharge
MP-MRY-3 (Freshwater Intake from Km 32 Lake - Winter)	N/A	N/A	Volume reported daily during discharge
MP-MRY-04 (RBC at Exploration Camp)	N/A	N/A	Facility Inactive
MP-03 (Bulk Fuel Storage Facility Stormwater)	8/16/2018	L2151335-1	Volume reported daily during discharge
MP-04 (Landfarm Facility & Snow Containment Facility)	N/A	N/A	Volume reported daily during discharge. No discharge occurred.
MP-05 (Ore Stockpile Sedimentation Pond (East))	8/8/2018	L2143845-1	Volume reported daily during discharge
MP-06 (Ore Stockpile Sedimentation Pond (West))	8/8/2018	L2143845-2	Volume reported daily during discharge
MP-MRY-12 (Bulk Sample Stockpile Area Seepage)	N/A	N/A	No flow, location is being retired due to lack of flow
MP-C-A (Downstream of Construction Area)	N/A	N/A	No flow, location is being retired due to lack of flow
MP-C-B (Downstream of Construction Area)	8/7/2018 8/14/2018 8/21/2018 8/27/2018	L2143614-7 L2148774-6 L2152813-4 L2157679-9	
MP-C-B01 (Downstream of Construction Area)	8/7/2018 8/14/2018 8/21/2018 8/27/2018	L2143614-6 L2148774-3 L2152813-3 L2157679-10	
MP-C-B0101 (Field Duplicate of MP-C-B01)	8/7/2018	L2143614-3	
MP-C-D (Downstream of Construction Area)	N/A	N/A	No flow, location is being retired due to lack of flow.
MP-C-E (Downstream of Construction Area)	N/A	N/A	No flow, location is being retired due to lack of flow.
MP-C-F (Downstream of Construction Area)	N/A	N/A	No flow.
MP-C-H (Downstream of Construction Area)	8/7/2018 8/14/2018 8/21/2018 8/27/2018	L2143614-1 L2148774-7 L2152813-6 L2157679-1	

Monitoring Program Station	Sampling Date	Lab ID#	Comment
MP-C-H01 (Field Duplicate of MP-C-H)	8/14/2018 8/21/2018	L2148774-8 L2152813-7	
MP-C-H03 (Travel Blank of MP-C-H)	8/27/2018	L2157679-2	
MP-Q1-01 (Downstream of Q1 Quarry)	8/7/2018 8/14/2018 8/21/2018 8/27/2018	L2143614-9 L2148774-2 L2152813-8 L2157679-5	
MP-Q1-02 (Downstream of Q1 Quarry)	8/7/2018 8/14/2018 8/21/2018 8/27/2018	L2143614-2 L2148774-9 L2152813-9 L2157679-3	
MP-Q1-0201 (Field Duplicate of MP-Q1-02)	8/27/2018	L2157679-4	

Mary River Mine Site			
MS-01 (Sewage Treatment Facility)	8/22/2018	L2152761-1	Discharge volume reported daily
MS-01b (Sewage Treatment Facility)	8/22/2018	L2152764-1	Discharge volume reported daily
MS-MRY-1 (Freshwater Intake Camp Lake)	N/A	N/A	Withdrawal volume reported daily
MS-MRY-04a	N/A	N/A	Volume reported daily during discharge. No discharge occurred.
MS-MRY-04b	N/A	N/A	Volume reported daily during discharge. No discharge occurred.
MS-MRY-04c	N/A	N/A	Volume reported daily during discharge. No discharge occurred.
MS-03 (Milne Site Bulk Fuel Storage Facility Stormwater)	N/A	N/A	Volume reported daily during discharge
MS-06 (Ore Stockpile Pond Stormwater)	8/1/2018 8/7/2018 8/18/2018 8/28/2018	L2139790-1 L2142460-1 L2151324-1 L2154892-3	Volume reported daily during discharge
MS-08 (Mine Waste Rock Stockpile pond)	8/1/2018 8/10/2018 8/15/2018 8/21/2018 8/27/2018	L2139794-1 L2145073-1 L2148404-1 L2150213-1 L2153611-1	Volume reported daily during discharge
MS-0801 (Field Duplicate of MS-08)	8/10/2018 8/21/2018	L2145073-2 L2150213-2	Volume reported daily during discharge
MS-MRY-6 (Exploration Camp Bladder Farm Stormwater)	8/25/2018	L2161343-1	Volume reported daily during discharge
MS-MRY-09 (Bulk Sample Pit)	N/A	N/A	No flow.
MS-MRY-10 (Weathered Ore Bulk Sample Stockpile)	N/A	N/A	No flow.
MS-MRY-11 (Processing Bulk Sample Stockpile)	N/A	N/A	Area is being retired due to lack of flows

MS-MRY-13A (Downstream Non-Hazardous Landfill)	8/9/2018 8/13/2018	L2145415-2 L2148365-6	
MS-MRY-13B (Downstream Non-Hazardous Landfill)	8/9/2018 8/13/2018 8/27/2018	L2145415-1 L2148365-16 L2157682-17	
MS-MRY-13B01 (Field Duplicate of MS-MRY- 13B)	8/27/2018	L2157682-19	
MS-MRY-13B02 (Field Blank of MS-MRY-13B)	8/13/2018	L2148365-10	
MS-C-A (Downstream of Construction and Borrow Areas)	8/10/2018 8/14/2018 8/23/2018 8/28/2018	L2145426-7 L2148365-9 L2152561-4 L2157682-6	
MS-C-A01 (Field Duplicate of MS-C-A)	8/13/2018	L2148365-12	
MS-C-B (Downstream of Construction and Borrow Areas)	8/10/2018 8/13/2018 8/23/2018 8/28/2018	L2145426-8 L2148365-18 L2152561-3 L2157682-8	
MS-C-C (Downstream of Construction and Borrow Areas)	8/10/2018 8/13/2018 8/24/2018 8/28/2018	L2145426-6 L2148365-7 L2153239-2 L2157682-14	
MS-C-C03 (Travel Blank of MS-C-C)	8/24/2018	L2153239-3	
MS-C-D (Downstream of Construction and Borrow Areas)	8/10/2018 8/13/2018 8/23/2018 8/28/2018	L2145426-10 L2148365-8 L2152561-2 L2157682-9	
MS-C-D02 (Field Blank of MS-C-D)	8/28/2018	L2157682-7	
MS-C-E (Downstream of Construction and Borrow Areas)	8/10/2018 8/13/2018 8/23/2018	L2145426-9 L2148365-11 L2152561-1	
MS-C-F (Downstream of Construction and Borrow Areas)	8/10/2018 8/13/2018 8/22/2018 8/27/2018	L2145426-11 L2148365-2 L2152564-1 L2157682-18	
MS-C-F01 (Field Duplicate of MS-C-F)	8/10/2018	L2145426-12	
MS-C-G (Downstream of Construction and Borrow Areas)	8/9/2018 8/13/2018 8/23/2018 8/27/2018	L2145415-5 L2148365-3 L2152561-5 L2157682-16	
MS-C-H (Downstream of Construction and Borrow Areas)	8/9/2018 8/13/2018 8/23/2018 8/27/2018	L2145415-3 L2148365-1 L2152561-6 L2157682-12	
MS-C-H01 (Field Duplicate of MS-C-H)	8/23/2018	L2152561-7	
MQ-C-A (Downstream of QMR2 Quarry)	8/9/2018 8/13/2018 8/22/2018 8/28/2018	L2145415-4 L2148365-17 L2152564-4 L2157682-5	
MQ-C-A01 (Field Duplicate of MQ-C-A)	8/28/2018	L2157682-4	

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MQ-C-B (Downstream of QMR2 Quarry)	8/9/2018 8/14/2018 8/15/2018 8/22/2018 8/28/2018	L2145415-6 L2148365-19 L2148408-1 L2152564-3 L2157682-10	
MQ-C-B01 (Field Duplicate of MQ-C-B)	8/9/2018	L2145415-7	
MQ-C-D (Downstream of QMR2 Quarry)	8/9/2018 8/13/2018 8/22/2018 8/28/2018	L2145415-8 L2148365-13 L2152564-2 L2157682-15	
MQ-C-E (Downstream of QMR2 Quarry)	8/10/2018 8/15/2018 8/24/2018 8/27/2018	L2145426-5 L2148408-2 L2153239-4 L2157682-11	
Steensby Port			
Steensby Exploration Camp is presently not active.	N/A	N/A	

TABLE 2.1 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MP-01

Analyte	Sample ID			MP-01
	ALS Laboratory Sample ID			L2152768-1
	Sample Date & Time			8/22/2018 1:45:00 PM
	QA/QC Sample Type			N/A
	Units	LOR	Water Licence Criteria ¹	
pH	pH units	0.1	6.0 - 9.5	7.52
Total Suspended Solids	mg/L	2	<120	<2.0
Alkalinity, Total (as CaCO ₃)	mg/L	10	-	61
Ammonia, Total (as N)	mg/L	0.02	-	0.053
Total Kjeldahl Nitrogen	mg/L	0.15	-	1.58
Phosphorus, Total	mg/L	0.003	-	8.78
Fecal Coliforms	CFU/100mL	0	10,000	0
BOD	mg/L	2	100	<2.0
COD	mg/L	10	-	45
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 5: Effluent Quality Discharge Limits for Sewage Treatment Facilities to the Ocean

TABLE 2.2 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MP-01A

Analyte	Sample ID			MP-01A
	ALS Laboratory Sample ID			L2155757-1
	Sample Date & Time			8/28/2018 3:10:00 PM
	QA/QC Sample Type			N/A
	Units	LOR	Water Licence Criteria ¹	
pH	pH units	0.1	6.0 - 9.5	7.79
Total Suspended Solids	mg/L	2	<120	85.2
Alkalinity, Total (as CaCO ₃)	mg/L	10	-	295
Ammonia, Total (as N)	mg/L	0.02	-	3.51
Total Kjeldahl Nitrogen	mg/L	0.15	-	18.2
Phosphorus, Total	mg/L	0.003	-	1.25
Fecal Coliforms	CFU/100mL	0	10,000	125
BOD	mg/L	2	100	23.6
COD	mg/L	10	-	520
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0
Acute Toxicity			Non-lethal	Non-lethal

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 5: Effluent Quality Discharge Limits for Sewage Treatment Facilities to the Ocean

TABLE 2.3 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MP-03

Analyte	Sample ID			MP-03
	ALS Laboratory Sample ID			L2151335-1
	Sample Date & Time			8/16/2018 2:55:00 PM
	QA/QC Sample Type			N/A
	Units	LOR	Water Licence Criteria ¹	
pH	pH units	0.1	6.0 - 9.5	7.88
Total Suspended Solids	mg/L	2	-	9.5
Total Dissolved Solids	mg/L	20	-	462
Turbidity	NTU	0.1	-	0.31
Lead (Pb)-Total	mg/L	0.0005	0.001	<0.0050
Oil and Grease, Total	mg/L	2	15	<2.0
Benzene	ug/L	0.5	370	<0.50
Ethylbenzene	ug/L	0.5	90	<0.50
Toluene	ug/L	0.5	2	<0.50
o-Xylene	ug/L	0.5	-	<0.50
m+p-Xylenes	ug/L	1	-	<1.0
Xylenes (Total)	ug/L	1.1	-	<1.1
4-Bromofluorobenzene	%	Surrogate	-	93.6
1,4-Difluorobenzene	%	Surrogate	-	96.4
F1 (C6-C10)	ug/L	100	-	<100
F1-BTEX	ug/L	100	-	<100
F2 (C10-C16)	ug/L	100	-	<100
F3 (C16-C34)	ug/L	250	-	<250
F4 (C34-C50)	ug/L	250	-	<250
Total Hydrocarbons (C6-C50)	ug/L	380	-	<380
Chrom. to baseline at nC50		n/a	-	YES
2-Bromobenzotrifluoride	%	Surrogate	-	74.8
3,4-Dichlorotoluene	%	Surrogate	-	103

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 5: Effluent Quality Discharge

Limits for Sewage Treatment Facilities to the Ocean

TABLE 2.4 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MP-05

Analyte	Sample ID			MP-05
	ALS Laboratory Sample ID			L2143845-1
	Sample Date & Time			8/8/2018 2:40:00 PM
	QA/QC Sample Type			N/A
	Units	LOR	Water Licence Criteria ¹	
Hardness (as CaCO3)	mg/L	10	-	363
pH	pH units	0.1	6.0 - 9.5	8.04
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	4.3
Total Dissolved Solids	mg/L	20	-	726
Turbidity	NTU	0.1	-	9.64
Alkalinity, Total (as CaCO3)	mg/L	10	-	166
Ammonia, Total (as N)	mg/L	0.02	-	0.114
Chloride (Cl)	mg/L	0.5	-	219
Fluoride (F)	mg/L	0.02	-	0.198
Nitrate (as N)	mg/L	0.02	-	3.98
Total Kjeldahl Nitrogen	mg/L	0.15	-	1.08
Phosphorus, Total	mg/L	0.003	-	0.0073
Sulfate (SO4)	mg/L	0.3	-	105
Dissolved Organic Carbon	mg/L	1	-	14.3
Total Organic Carbon	mg/L	1	-	16.3
Aluminum (Al)-Total	mg/L	0.01	-	0.137
Arsenic (As)-Total	mg/L	0.0001	0.5	0.00024
Cadmium (Cd)-Total	mg/L	0.00001	-	<0.000010
Calcium (Ca)-Total	mg/L	0.5	-	84.3
Copper (Cu)-Total	mg/L	0.001	0.3	0.0021
Iron (Fe)-Total	mg/L	0.05	-	0.179
Lead (Pb)-Total	mg/L	0.0001	0.2	0.00022
Magnesium (Mg)-Total	mg/L	0.05	-	42.8
Manganese (Mn)-Total	mg/L	0.0005	-	0.0424
Mercury (Hg)-Total	mg/L	0.00001	-	<0.000010
Molybdenum (Mo)-Total	mg/L	0.00005	-	0.00314
Nickel (Ni)-Total	mg/L	0.0005	0.5	0.00114
Potassium (K)-Total	mg/L	0.05	-	8.74
Selenium (Se)-Total	mg/L	0.00005	-	0.00018
Sodium (Na)-Total	mg/L	0.5	-	75.5
Thallium (Tl)-Total	mg/L	0.00001	-	0.000014
Uranium (U)-Total	mg/L	0.00001	-	0.0165
Zinc (Zn)-Total	mg/L	0.003	0.5	0.0101
Aluminum (Al)-Dissolved	mg/L	0.005	-	0.0116
Arsenic (As)-Dissolved	mg/L	0.0001	-	0.00019
Cadmium (Cd)-Dissolved	mg/L	0.00001	-	<0.000010
Calcium (Ca)-Dissolved	mg/L	0.05	-	80.6
Copper (Cu)-Dissolved	mg/L	0.0002	-	0.00143
Iron (Fe)-Dissolved	mg/L	0.01	-	<0.010
Lead (Pb)-Dissolved	mg/L	0.00005	-	<0.000050
Magnesium (Mg)-Dissolved	mg/L	0.05	-	39.2
Manganese (Mn)-Dissolved	mg/L	0.0005	-	0.0273
Mercury (Hg)-Dissolved	mg/L	0.00001	-	<0.000010
Molybdenum (Mo)-Dissolved	mg/L	0.00005	-	0.00297
Nickel (Ni)-Dissolved	mg/L	0.0005	-	0.00086
Potassium (K)-Dissolved	mg/L	0.05	-	8.06
Selenium (Se)-Dissolved	mg/L	0.00005	-	0.000172
Sodium (Na)-Dissolved	mg/L	0.5	-	71.9
Thallium (Tl)-Dissolved	mg/L	0.00001	-	0.000015
Uranium (U)-Dissolved	mg/L	0.00001	-	0.0164
Zinc (Zn)-Dissolved	mg/L	0.001	-	0.0071

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 10: Effluent Quality Discharge Limits for Open Pit, Stockpiles, and Sedimentation Ponds

TABLE 2.5 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MP-06

Analyte	Sample ID			MP-06
	ALS Laboratory Sample ID			L2143845-2
	Sample Date & Time			8/8/2018 5:40:00 PM
	QA/QC Sample Type			N/A
	Units	LOR	Water Licence Criteria ¹	
Hardness (as CaCO3)	mg/L	10	-	621
pH	pH units	0.1	6.0 - 9.5	8.01
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	<2.0
Total Dissolved Solids	mg/L	20	-	1010
Turbidity	NTU	0.1	-	2.07
Alkalinity, Total (as CaCO3)	mg/L	10	-	91
Ammonia, Total (as N)	mg/L	0.02	-	0.023
Chloride (Cl)	mg/L	0.5	-	84.4
Fluoride (F)	mg/L	0.02	-	0.111
Nitrate (as N)	mg/L	0.02	-	6.3
Total Kjeldahl Nitrogen	mg/L	0.15	-	0.5
Phosphorus, Total	mg/L	0.003	-	0.011
Sulfate (SO4)	mg/L	0.3	-	536
Dissolved Organic Carbon	mg/L	1	-	2.67
Total Organic Carbon	mg/L	1	-	3.28
Aluminum (Al)-Total	mg/L	0.01	-	0.011
Arsenic (As)-Total	mg/L	0.0001	0.5	0.00013
Cadmium (Cd)-Total	mg/L	0.00001	-	<0.000010
Calcium (Ca)-Total	mg/L	0.5	-	101
Copper (Cu)-Total	mg/L	0.001	0.3	0.0011
Iron (Fe)-Total	mg/L	0.05	-	<0.050
Lead (Pb)-Total	mg/L	0.0001	0.2	0.00011
Magnesium (Mg)-Total	mg/L	0.05	-	101
Manganese (Mn)-Total	mg/L	0.0005	-	0.202
Mercury (Hg)-Total	mg/L	0.00001	-	<0.000010
Molybdenum (Mo)-Total	mg/L	0.00005	-	0.00173
Nickel (Ni)-Total	mg/L	0.0005	0.5	0.00152
Potassium (K)-Total	mg/L	0.05	-	6.43
Selenium (Se)-Total	mg/L	0.00005	-	0.00152
Sodium (Na)-Total	mg/L	0.5	-	40.6
Thallium (Tl)-Total	mg/L	0.00001	-	0.00002
Uranium (U)-Total	mg/L	0.00001	-	0.00749
Zinc (Zn)-Total	mg/L	0.003	0.5	<0.0030
Aluminum (Al)-Dissolved	mg/L	0.005	-	<0.0050
Arsenic (As)-Dissolved	mg/L	0.0001	-	0.00011
Cadmium (Cd)-Dissolved	mg/L	0.00001	-	<0.000010
Calcium (Ca)-Dissolved	mg/L	0.05	-	102
Copper (Cu)-Dissolved	mg/L	0.0002	-	0.00073
Iron (Fe)-Dissolved	mg/L	0.01	-	<0.010
Lead (Pb)-Dissolved	mg/L	0.00005	-	0.000074
Magnesium (Mg)-Dissolved	mg/L	0.05	-	88.7
Manganese (Mn)-Dissolved	mg/L	0.0005	-	0.172
Mercury (Hg)-Dissolved	mg/L	0.00001	-	<0.000010
Molybdenum (Mo)-Dissolved	mg/L	0.00005	-	0.00172
Nickel (Ni)-Dissolved	mg/L	0.0005	-	0.00136
Potassium (K)-Dissolved	mg/L	0.05	-	5.84
Selenium (Se)-Dissolved	mg/L	0.00005	-	0.0016
Sodium (Na)-Dissolved	mg/L	0.5	-	37.4
Thallium (Tl)-Dissolved	mg/L	0.00001	-	0.000022
Uranium (U)-Dissolved	mg/L	0.00001	-	0.00802
Zinc (Zn)-Dissolved	mg/L	0.001	-	<0.0010

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 10: Effluent Quality Discharge Limits for Open Pit, Stockpiles, and Sedimentation Ponds

TABLE 2.6 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MP-C-B

Analyte	Sample ID			MP-C-B	MP-C-B	MP-C-B	MP-C-B
	ALS Laboratory Sample ID			L2143614-7	L2148774-6	L2152813-4	L2157679-9
	Sample Date & Time			8/7/2018 5:05:00 PM	8/14/2018 4:35:00 PM	8/21/2018 3:25:00 PM	8/27/2018 11:30:00 AM
	QA/QC Sample Type			N/A	N/A	N/A	N/A
	Units	LOR	Water Licence Criteria ¹				
Conductivity	umhos/cm	3	-	537	-	556	-
pH	pH units	0.1	6.0 - 9.5	8.17	8.33	8.27	8.24
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	5.2	3.2	4.2	<2.0
Total Dissolved Solids	mg/L	10	-	317	376	344	386
Turbidity	NTU	0.1	-	21.7	4.16	10.7	3.53
Ammonia, Total (as N)	mg/L	0.02	-	0.647	-	0.551	-
Nitrate (as N)	mg/L	0.02	-	5.09	-	5.32	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-	<2.0	-

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project

TABLE 2.7 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MP-C-B01

Analyte	Sample ID			MP-C-B01	MP-C-B0101	MP-C-B01	MP-C-B01	MP-C-B01
	ALS Laboratory Sample ID			L2143614-6	L2143614-3	L2148774-3	L2152813-3	L2157679-10
	Sample Date & Time			8/7/2018 4:45:00 PM	8/7/2018 4:45:00 PM	8/14/2018 4:20:00 PM	8/21/2018 2:30:00 PM	8/27/2018 11:45:00 AM
	QA/QC Sample Type			N/A	Duplicate	N/A	N/A	N/A
	Units	LOR	Water Licence Criteria ¹					
Conductivity	umhos/cm	3	-	532	529	-	541	-
pH	pH units	0.1	6.0 - 9.5	8.15	8.15	8.24	8.24	8.25
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	6.7	5.7	4	3.5	<2.0
Total Dissolved Solids	mg/L	10	-	322	314	340	336	366
Turbidity	NTU	0.1	-	24.9	24.5	4.94	11.1	4.5
Ammonia, Total (as N)	mg/L	0.02	-	0.644	0.698	-	0.558	-
Nitrate (as N)	mg/L	0.02	-	5.19	5.12	-	5.23	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	<2.0	-	<2.0	-

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project

TABLE 2.8 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MP-C-H

Analyte	Sample ID			MP-C-H	MP-C-H	MP-C-H01	MP-C-H
	ALS Laboratory Sample ID			L2143614-1	L2148774-7	L2148774-8	L2152813-6
	Sample Date & Time			8/7/2018 1:00:00 PM	8/14/2018 9:10:00 AM	8/14/2018 9:10:00 AM	8/21/2018 5:00:00 PM
	QA/QC Sample Type			N/A	N/A	Duplicate	N/A
	Units	LOR	Water Licence Criteria ¹				
Conductivity	umhos/cm	3	-	256	-	-	247
pH	pH units	0.1	6.0 - 9.5	8.19	8.22	8.23	8.28
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	<2.0	<2.0	<2.0	<2.0
Total Dissolved Solids	mg/L	10	-	142	161	157	150
Turbidity	NTU	0.1	-	0.58	0.34	0.54	0.31
Ammonia, Total (as N)	mg/L	0.02	-	<0.020	-	-	0.029
Nitrate (as N)	mg/L	0.02	-	0.03	-	-	0.029
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-	-	<2.0

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project

TABLE 2.8 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MP-C-H

Analyte	Sample ID			MP-C-H01	MP-C-H	MP-C-H03
	ALS Laboratory Sample ID			L2152813-7	L2157679-1	L2157679-2
	Sample Date & Time			8/21/2018 5:00:00 PM	8/27/2018 8:40:00 AM	8/27/2018 8:40:00 AM
	QA/QC Sample Type			Duplicate	N/A	Travel Blank
	Units	LOR	Water Licence Criteria ¹			
Conductivity	umhos/cm	3	-	247	-	-
pH	pH units	0.1	6.0 - 9.5	8.29	8.20	5.99
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	<2.0	<2.0	<2.0
Total Dissolved Solids	mg/L	10	-	142	201	11
Turbidity	NTU	0.1	-	0.23	0.16	0.19
Ammonia, Total (as N)	mg/L	0.02	-	0.031	-	-
Nitrate (as N)	mg/L	0.02	-	0.03	-	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-	-

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project

TABLE 2.9 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MP-Q1-01

Analyte	Sample ID			MP-Q1-01	MP-Q1-01	MP-Q1-01	MP-Q1-01
	ALS Laboratory Sample ID			L2143614-9	L2148774-2	L2152813-8	L2157679-5
	Sample Date & Time			8/7/2018 6:35:00 PM	8/14/2018 10:20:00 AM	8/21/2018 6:45:00 PM	8/27/2018 9:10:00 AM
	QA/QC Sample Type			N/A	N/A	N/A	N/A
	Units	LOR	Water Licence Criteria ¹				
Conductivity	umhos/cm	3	-	279	-	264	-
pH	pH units	0.1	6.0 - 9.5	8.05	8.02	8.2	8.18
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	5.3	2.4	<2.0	<2.0
Total Dissolved Solids	mg/L	10	-	176	200	159	191
Turbidity	NTU	0.1	-	5.67	0.89	1.54	0.92
Ammonia, Total (as N)	mg/L	0.02	-	0.299	-	0.136	-
Nitrate (as N)	mg/L	0.02	-	3.11	-	2.37	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-	<2.0	-
Acute Toxicity			Non-lethal	Non-lethal	-	-	-

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project

TABLE 2.10 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MP-Q1-02

Analyte	Sample ID			MP-Q1-02	MP-Q1-02	MP-Q1-02	MP-Q1-02	MP-Q1-0201
	ALS Laboratory Sample ID			L2143614-2	L2148774-9	L2152813-9	L2157679-3	L2157679-4
	Sample Date & Time			8/7/2018 1:40:00 PM	8/14/2018 10:19:00 AM	8/21/2018 6:50:00 PM	8/27/2018 9:05:00 AM	8/27/2018 9:05:00 AM
	QA/QC Sample Type			N/A	N/A	N/A	N/A	Duplicate
	Units	LOR	Water Licence Criteria ¹					
Conductivity	umhos/cm	3	-	720	-	762	-	-
pH	pH units	0.1	6.0 - 9.5	7.92	7.88	8.07	7.99	8.01
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	<2.0	<2.0	4.8	<2.0	<2.0
Total Dissolved Solids	mg/L	10	-	458	548	597	548	543
Turbidity	NTU	0.1	-	3.85	0.59	4.95	0.67	0.96
Ammonia, Total (as N)	mg/L	0.02	-	4	-	4.09	-	-
Nitrate (as N)	mg/L	0.02	-	36.7	-	15.6	-	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-	<2.0	-	-
Acute Toxicity			Non-lethal	-	-	-	-	-

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project

TABLE 2.11 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-01

Analyte	Sample ID			MS-01
	ALS Laboratory Sample ID			L2152761-1
	Sample Date & Time			8/22/2018 3:00:00 PM
	QA/QC Sample Type			N/A
	Units	LOR	Water Licence Criteria ¹	
pH	pH units	0.1	6.0 - 9.5	7.79
Total Suspended Solids	mg/L	2	35	<2.0
Alkalinity, Total (as CaCO ₃)	mg/L	10	-	80
Ammonia, Total (as N)	mg/L	0.02	4	0.083
Total Kjeldahl Nitrogen	mg/L	0.15	-	3.27
Phosphorus, Total	mg/L	0.003	4	1.13
Fecal Coliforms	CFU/100mL	0	1,000	78
BOD	mg/L	2	30	<2.0
COD	mg/L	10	-	49
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 4: Effluent Quality Discharge Limits for Sewage Treatment Facilities to Freshwater Receiving Environment

TABLE 2.12 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-01B

Analyte	Sample ID			MS-01B
	ALS Laboratory Sample ID			L2152764-1
	Sample Date & Time			8/22/2018 2:00:00 PM
	QA/QC Sample Type			N/A
	Units	LOR	Water Licence Criteria ¹	
pH	pH units	0.1	6.0 - 9.5	7.41
Total Suspended Solids	mg/L	2	35	<2.0
Alkalinity, Total (as CaCO ₃)	mg/L	10	-	23
Ammonia, Total (as N)	mg/L	0.02	4	0.126
Total Kjeldahl Nitrogen	mg/L	0.15	-	1.52
Phosphorus, Total	mg/L	0.003	4	0.476
Fecal Coliforms	CFU/100mL	0	1,000	0
BOD	mg/L	2	30	<2.0
COD	mg/L	10	-	30
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 4: Effluent Quality Discharge Limits for Sewage Treatment Facilities to Freshwater Receiving Environment

TABLE 2.13 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-06

Analyte	Sample ID			MS-06	MS-06	MS-06	MS-06
	ALS Laboratory Sample ID			L2139790-1	L2142460-1	L2151324-1	L2154892-3
	Sample Date & Time			8/1/2018 11:55:00 AM	8/7/2018 5:30:00 PM	8/18/2018 5:10:00 PM	8/28/2018 4:25:00 PM
	QA/QC Sample Type			N/A	N/A	N/A	N/A
	Units	LOR	Water Licence Criteria ¹				
Conductivity	umhos/cm	3	6.0 - 9.5	1140	921	1120	1060
Hardness (as CaCO3)	mg/L	10	-	-	-	-	574
pH	pH units	0.1	-	7.46	7.3	6.84	7.37
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	<2.0	2.8	2.4	4
Total Dissolved Solids	mg/L	10	-	645	740	878	900
Turbidity	NTU	0.1	-	4.85	11	9.77	-
Acidity (as CaCO3)	mg/L	2	-	-	-	-	3
Alkalinity, Total (as CaCO3)	mg/L	10	-	-	-	-	24
Ammonia, Total (as N)	mg/L	0.02	-	0.024	<0.020	0.03	0.04
Chloride (Cl)	mg/L	0.5	-	-	-	-	15.3
Fluoride (F)	mg/L	0.02	-	-	-	-	0.044
Nitrate (as N)	mg/L	0.02	-	-	-	-	4.35
Total Kjeldahl Nitrogen	mg/L	0.15	-	-	-	-	<0.15
Phosphorus, Total	mg/L	0.003	-	-	-	-	<0.030
Sulfate (SO4)	mg/L	0.3	-	-	-	-	539
Cyanide, Total	mg/L	0.002	-	<0.020 *	<0.0020	<0.0020	<0.0020
Dissolved Organic Carbon	mg/L	1	-	-	-	-	0.85
Total Organic Carbon	mg/L	1	-	-	-	-	1.01
Aluminum (Al)-Total	mg/L	0.01	-	0.025	0.0442	0.0171	0.0842
Antimony (Sb)-Total	mg/L	0.0001	-	<0.00010	<0.00010	<0.00010	<0.00010
Arsenic (As)-Total	mg/L	0.0001	0.5	0.00011	0.00011	0.00011	<0.00010
Barium (Ba)-Total	mg/L	0.0001	-	0.0141	0.0133	0.0175	0.017
Beryllium (Be)-Total	mg/L	0.0001	-	<0.00010	<0.00010	<0.00010	<0.00010
Bismuth (Bi)-Total	mg/L	0.00005	-	<0.000050	<0.000050	<0.000050	<0.000050
Boron (B)-Total	mg/L	0.01	-	0.03	0.024	0.032	0.023
Cadmium (Cd)-Total	mg/L	0.00001	-	0.0000289	0.0000222	0.0000685	0.0000553
Calcium (Ca)-Total	mg/L	0.5	-	54	45.3	59.9	49.7
Cesium (Cs)-Total	mg/L	0.00001	-	0.000014	0.000013	0.000014	0.000016
Chromium (Cr)-Total	mg/L	0.0005	-	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Total	mg/L	0.0001	0.3	0.00664	0.00448	0.0168	0.00903
Copper (Cu)-Total	mg/L	0.001	-	<0.0010	<0.0010	<0.0010	0.0113
Iron (Fe)-Total	mg/L	0.05	-	0.171	0.176	2.09	0.333
Lead (Pb)-Total	mg/L	0.0001	0.2	<0.000050	<0.000050	<0.000050	0.000572
Lithium (Li)-Total	mg/L	0.001	-	0.0199	0.0148	0.019	0.0142
Magnesium (Mg)-Total	mg/L	0.05	-	103	92.9	109	101
Manganese (Mn)-Total	mg/L	0.0005	-	1.44	1.09	1.9	1.62
Mercury (Hg)-Total	mg/L	0.00001	-	-	-	-	<0.000010
Molybdenum (Mo)-Total	mg/L	0.00005	-	0.000129	0.0002	0.000084	0.000123
Nickel (Ni)-Total	mg/L	0.0005	0.5	0.0118	0.00827	0.0235	0.0168
Phosphorus (P)-Total	mg/L	0.05	-	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	mg/L	0.05	-	9.99	8.77	10.3	8.84
Rubidium (Rb)-Total	mg/L	0.0002	-	0.00895	0.00831	0.0108	0.0114
Selenium (Se)-Total	mg/L	0.00005	-	0.00113	0.00105	0.00103	0.00087
Silicon (Si)-Total	mg/L	0.1	-	0.17	0.15	0.13	0.19
Silver (Ag)-Total	mg/L	0.00005	-	<0.000050	<0.000050	<0.000050	<0.000050
Sodium (Na)-Total	mg/L	0.5	-	6.24	5.62	6.13	5.02
Strontium (Sr)-Total	mg/L	0.001	-	0.0761	0.0664	0.077	0.0714
Sulfur (S)-Total	mg/L	0.5	-	182	181	221	181
Tellurium (Te)-Total	mg/L	0.0002	-	<0.00020	<0.00020	<0.00020	<0.00020
Thallium (Tl)-Total	mg/L	0.00001	-	0.000034	0.000027	0.000038	0.000035
Thorium (Th)-Total	mg/L	0.0001	-	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L	0.0001	-	<0.00010	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Total	mg/L	0.0008	-	<0.00070	<0.00070	<0.00030	<0.0035
Tungsten (W)-Total	mg/L	0.0001	-	<0.00010	<0.00010	<0.00010	<0.00010
Uranium (U)-Total	mg/L	0.00001	-	0.000451	0.000314	0.000196	0.00013
Vanadium (V)-Total	mg/L	0.0005	-	<0.00050	<0.00050	<0.00050	<0.00050
Zinc (Zn)-Total	mg/L	0.003	0.5	0.0034	<0.0030	0.004	0.0073
Zirconium (Zr)-Total	mg/L	0.0003	-	<0.00030	<0.00030	<0.00030	<0.00030
Aluminum (Al)-Dissolved	mg/L	0.005	-	-	-	-	<0.0050
Antimony (Sb)-Dissolved	mg/L	0.0001	-	-	-	-	<0.00010
Arsenic (As)-Dissolved	mg/L	0.0001	-	-	-	-	<0.00010
Barium (Ba)-Dissolved	mg/L	0.0001	-	-	-	-	0.0163
Beryllium (Be)-Dissolved	mg/L	0.0001	-	-	-	-	<0.00010
Bismuth (Bi)-Dissolved	mg/L	0.00005	-	-	-	-	<0.000050
Boron (B)-Dissolved	mg/L	0.01	-	-	-	-	0.024
Cadmium (Cd)-Dissolved	mg/L	0.00001	-	-	-	-	0.0000568
Calcium (Ca)-Dissolved	mg/L	0.05	-	-	-	-	54.9
Cesium (Cs)-Dissolved	mg/L	0.00001	-	-	-	-	0.000013
Chromium (Cr)-Dissolved	mg/L	0.0005	-	-	-	-	<0.00050
Cobalt (Co)-Dissolved	mg/L	0.0001	-	-	-	-	0.00867
Copper (Cu)-Dissolved	mg/L	0.0002	-	-	-	-	0.00038
Iron (Fe)-Dissolved	mg/L	0.01	-	-	-	-	0.013
Lead (Pb)-Dissolved	mg/L	0.00005	-	-	-	-	<0.000050
Lithium (Li)-Dissolved	mg/L	0.001	-	-	-	-	0.0156
Magnesium (Mg)-Dissolved	mg/L	0.05	-	-	-	-	106
Manganese (Mn)-Dissolved	mg/L	0.0005	-	-	-	-	1.54
Mercury (Hg)-Dissolved	mg/L	0.00001	-	-	-	-	<0.000010
Molybdenum (Mo)-Dissolved	mg/L	0.00005	-	-	-	-	0.000096
Nickel (Ni)-Dissolved	mg/L	0.0005	-	-	-	-	0.0162
Phosphorus (P)-Dissolved	mg/L	0.05	-	-	-	-	<0.050
Potassium (K)-Dissolved	mg/L	0.05	-	-	-	-	9.37
Rubidium (Rb)-Dissolved	mg/L	0.0002	-	-	-	-	0.0111
Selenium (Se)-Dissolved	mg/L	0.00005	-	-	-	-	0.00088
Silicon (Si)-Dissolved	mg/L	0.05	-	-	-	-	<0.050
Silver (Ag)-Dissolved	mg/L	0.00005	-	-	-	-	<0.000050
Sodium (Na)-Dissolved	mg/L	0.5	-	-	-	-	5.34
Strontium (Sr)-Dissolved	mg/L	0.001	-	-	-	-	0.0705
Sulfur (S)-Dissolved	mg/L	0.5	-	-	-	-	196
Tellurium (Te)-Dissolved	mg/L	0.0002	-	-	-	-	<0.00020
Thallium (Tl)-Dissolved	mg/L	0.00001	-	-	-	-	0.000031
Thorium (Th)-Dissolved	mg/L	0.0001	-	-	-	-	<0.00010
Tin (Sn)-Dissolved	mg/L	0.0001	-	-	-	-	<0.00010
Titanium (Ti)-Dissolved	mg/L	0.0003	-	-	-	-	<0.00030
Tungsten (W)-Dissolved	mg/L	0.0001	-	-	-	-	<0.00010
Uranium (U)-Dissolved	mg/L	0.00001	-	-	-	-	0.000091
Vanadium (V)-Dissolved	mg/L	0.0005	-	-	-	-	<0.00050
Zinc (Zn)-Dissolved	mg/L	0.001	-	-	-	-	0.0047
Zirconium (Zr)-Dissolved	mg/L	0.0003	-	-	-	-	<0.00030
Ra-226	Bq/L	0.0048	-	0.011	0.0053	0.012	IP
Acute Toxicity			Non-lethal	-	-	-	Non-lethal

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (ZAM-MRY1325 - Amend. 1) - Table 10: Effluent Quality Discharge Limits for Open Pit, Stockpiles and Sedimentation Ponds

TABLE 2.14 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-08

Analyte	Sample ID			MS-08	MS-08	MS-0801	MS-08	MS-08	MS-0801	MS-08
	ALS Laboratory Sample ID			L2139794-1	L2145073-1	L2145073-2	L2148404-1	L2150213-1	L2150213-2	L2153611-1
	Sample Date & Time			8/1/2018 8:55:00 AM	8/10/2018 1:55:00 PM	8/10/2018 1:55:00 PM	8/15/2018 5:00:00 PM	8/21/2018 9:00:00 AM	8/21/2018 9:00:00 AM	8/27/2018 11:05:00 AM
	QA/QC Sample Type			N/A	N/A	Duplicate	N/A	N/A	Duplicate	N/A
	Units	LOR	Water Licence Criteria ¹							
Conductivity	umhos/cm	3	-	2360	5010	5030	5290	3890	3960	5460
Hardness (as CaCO3)	mg/L	10	-	-	4120	4310	-	2760	2550	-
pH	pH units	0.1	6.0-9.5	8.83	9.23	9.27	8.57	8.83	8.85	8.78
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	4.4	19.3	14.9	12	7.2	6	9.6
Total Dissolved Solids	mg/L	20	-	2580	6370	5040	7000	3920	3800	6710
Turbidity	NTU	0.1	-	4.91	-	-	13	-	-	1.81
Acidity (as CaCO3)	mg/L	2	-	-	<2.0	<2.0	-	<2.0	<2.0	-
Alkalinity, Total (as CaCO3)	mg/L	10	-	-	57	55	-	48	50	-
Ammonia, Total (as N)	mg/L	0.1	-	1.32	2.98	2.99	3.49	1.52	1.58	2.89
Chloride (Cl)	mg/L	0.5	-	-	12	10.1	-	7.9	8.6	-
Fluoride (F)	mg/L	0.02	-	-	<0.20	<0.20	-	<0.20	<0.20	-
Nitrate (as N)	mg/L	0.02	-	-	18.7	15.6	-	9.76	10.3	-
Total Kjeldahl Nitrogen	mg/L	0.15	-	-	3.5	3.86	-	2.19	2.17	-
Phosphorus, Total	mg/L	0.03	-	-	<0.0030	<0.0030	-	<0.030	<0.030	-
Sulfate (SO4)	mg/L	0.3	-	-	4930	4100	-	2700	2830	-
Cyanide, Total	mg/L	0.002	-	0.0121	0.022	0.0234	0.48	<0.020	0.0145	<0.020
Dissolved Organic Carbon	mg/L	0.5	-	-	2.04	1.9	-	2.94	3	-
Total Organic Carbon	mg/L	0.5	-	-	2.4	2.75	-	3.18	3.08	-
Aluminum (Al)-Total	mg/L	0.05	-	<0.050	0.088	0.091	0.072	0.057	0.060	0.116
Antimony (Sb)-Total	mg/L	0.001	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic (As)-Total	mg/L	0.001	0.5	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium (Ba)-Total	mg/L	0.001	-	0.0221	0.0201	0.0206	0.0220	0.0182	0.0178	0.0209
Beryllium (Be)-Total	mg/L	0.001	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	mg/L	0.0005	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Boron (B)-Total	mg/L	0.1	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium (Cd)-Total	mg/L	0.00005	-	0.000142	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000055
Calcium (Ca)-Total	mg/L	0.5	-	109	321	330	365	206	214	304
Cesium (Cs)-Total	mg/L	0.0001	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Chromium (Cr)-Total	mg/L	0.005	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cobalt (Co)-Total	mg/L	0.001	-	0.0317	0.0271	0.0284	0.0348	0.0189	0.0191	0.0344
Copper (Cu)-Total	mg/L	0.01	0.3	<0.010	0.034	0.034	0.027	0.012	0.012	0.018
Iron (Fe)-Total	mg/L	0.1	-	1.16	4.04	4.18	2.71	1.71	1.70	3.57
Lead (Pb)-Total	mg/L	0.0005	0.2	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Lithium (Li)-Total	mg/L	0.01	-	0.03	0.061	0.058	0.063	0.040	0.041	0.067
Magnesium (Mg)-Total	mg/L	0.05	-	346	800	829	986	617	620	931
Manganese (Mn)-Total	mg/L	0.005	-	7.27	6.92	7.07	10.5	5.61	5.72	9.44
Mercury (Hg)-Total	mg/L	0.00001	-	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Molybdenum (Mo)-Total	mg/L	0.0005	-	<0.00050	<0.00050	<0.00050	<0.00050	0.00063	0.00057	<0.00050
Nickel (Ni)-Total	mg/L	0.005	0.5	0.0436	0.0280	0.0297	0.0402	0.0247	0.0247	0.0437
Phosphorus (P)-Total	mg/L	0.5	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium (K)-Total	mg/L	0.5	-	4.13	4.76	4.78	5.60	4.99	5.05	5.43
Rubidium (Rb)-Total	mg/L	0.002	-	0.0057	0.0092	0.0091	0.0095	0.0070	0.0072	0.0097
Selenium (Se)-Total	mg/L	0.0005	-	0.00413	0.00956	0.00935	0.0100	0.00620	0.00660	0.0108
Silicon (Si)-Total	mg/L	1	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver (Ag)-Total	mg/L	0.0005	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Sodium (Na)-Total	mg/L	0.5	-	6.89	4.75	4.78	5.81	4.76	4.78	5.37
Strontium (Sr)-Total	mg/L	0.01	-	0.146	0.655	0.667	0.751	0.379	0.390	0.576
Sulfur (S)-Total	mg/L	5	-	542	1530	1500	1780	1010	1030	1620
Tellurium (Te)-Total	mg/L	0.002	-	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Thallium (Tl)-Total	mg/L	0.0001	-	<0.00010	0.00017	0.00017	0.00017	<0.00010	<0.00010	0.00015
Thorium (Th)-Total	mg/L	0.001	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Tin (Sn)-Total	mg/L	0.001	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	mg/L	0.003	-	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Tungsten (W)-Total	mg/L	0.001	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Uranium (U)-Total	mg/L	0.0001	-	0.00033	0.00073	0.00066	0.00061	0.00061	0.00063	0.00055
Vanadium (V)-Total	mg/L	0.005	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zinc (Zn)-Total	mg/L	0.03	0.5	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Zirconium (Zr)-Total	mg/L	0.003	-	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Aluminum (Al)-Dissolved	mg/L	0.05	-	-	<0.050	<0.050	-	<0.050	<0.050	-
Antimony (Sb)-Dissolved	mg/L	0.001	-	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Arsenic (As)-Dissolved	mg/L	0.001	-	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Barium (Ba)-Dissolved	mg/L	0.001	-	-	0.0206	0.0194	-	0.0155	0.0144	-
Beryllium (Be)-Dissolved	mg/L	0.001	-	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Bismuth (Bi)-Dissolved	mg/L	0.0005	-	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Boron (B)-Dissolved	mg/L	0.1	-	-	<0.10	<0.10	-	<0.10	<0.10	-
Cadmium (Cd)-Dissolved	mg/L	0.00005	-	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Calcium (Ca)-Dissolved	mg/L	0.5	-	-	316	328	-	194	177	-
Cesium (Cs)-Dissolved	mg/L	0.0001	-	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Chromium (Cr)-Dissolved	mg/L	0.005	-	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cobalt (Co)-Dissolved	mg/L	0.001	-	-	0.0047	0.0049	-	0.0060	0.0054	-
Copper (Cu)-Dissolved	mg/L	0.002	-	-	0.0323	0.0331	-	0.0103	0.0092	-
Iron (Fe)-Dissolved	mg/L	0.1	-	-	<0.10	<0.10	-	<0.10	<0.10	-
Lead (Pb)-Dissolved	mg/L	0.0005	-	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Lithium (Li)-Dissolved	mg/L	0.01	-	-	0.054	0.06	-	0.040	0.034	-
Magnesium (Mg)-Dissolved	mg/L	0.05	-	-	809	846	-	553	512	-
Manganese (Mn)-Dissolved	mg/L	0.005	-	-	6.33	6.5	-	4.47	4.09	-
Mercury (Hg)-Dissolved	mg/L	0.00001	-	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Molybdenum (Mo)-Dissolved	mg/L	0.0005	-	-	<0.00050	<0.00050	-	0.00062	0.00063	-
Nickel (Ni)-Dissolved	mg/L	0.005	-	-	0.006	0.0065	-	0.0091	0.0080	-
Phosphorus (P)-Dissolved	mg/L	0.5	-	-	<0.50	<0.50	-	<0.50	<0.50	-
Potassium (K)-Dissolved	mg/L	0.5	-	-	4.66	4.79	-	4.56	4.05	-
Rubidium (Rb)-Dissolved	mg/L	0.002	-	-	0.0087	0.0094	-	0.0067	0.0062	-
Selenium (Se)-Dissolved	mg/L	0.0005	-	-	0.00859	0.00846	-	0.00571	0.00504	-
Silicon (Si)-Dissolved	mg/L	0.5	-	-	<0.50	<0.50	-	<0.50	<0.50	-
Silver (Ag)-Dissolved	mg/L	0.0005	-	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Sodium (Na)-Dissolved	mg/L	0.5	-	-	4.74	4.83	-	4.38	3.96	-
Strontium (Sr)-Dissolved	mg/L	0.01	-	-	0.616	0.65	-	0.355	0.324	-
Sulfur (S)-Dissolved	mg/L	5	-	-	1460	1460	-	913	848	-
Tellurium (Te)-Dissolved	mg/L	0.002	-	-	<0.0020	<0.0020	-	<0.0020	<0.0020	-
Thallium (Tl)-Dissolved	mg/L	0.0001	-	-	0.00016	0.00017	-	<0.00010	<0.00010	-
Thorium (Th)-Dissolved	mg/L	0.001	-	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Tin (Sn)-Dissolved	mg/L	0.001	-	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Titanium (Ti)-Dissolved	mg/L	0.003	-	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-
Tungsten (W)-Dissolved	mg/L	0.001	-	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Uranium (U)-Dissolved	mg/L	0.0001	-	-	0.00036	0.00033	-	0.00036	0.00033	-
Vanadium (V)-Dissolved	mg/L	0.005	-	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Zinc (Zn)-Dissolved	mg/L	0.01	-	-	<0.010	<0.010	-	<0.010	<0.010	-
Zirconium (Zr)-Dissolved	mg/L	0.003	-	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-
Ra-226	Bq/L	0.0044	-	0.019	0.041	0.045	0.033	IP	IP	IP
Acute Toxicity			Non-lethal	-	Non-lethal	-	-	-	-	-

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 10: Effluent Quality Discharge Limits for Open Pit, Stockpiles and Sedimentation Ponds

TABLE 2.15 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-MRY-6

Analyte	Sample ID			MS-MRY-6
	ALS Laboratory Sample ID			L2161343-1
	Sample Date & Time			8/25/2018 11:50:00 AM
	QA/QC Sample Type			N/A
	Units	LOR	Water Licence Criteria ¹	
pH	pH units	0.1	6.0 - 9.5	8.28
Total Suspended Solids	mg/L	2	-	12.2
Total Dissolved Solids	mg/L	20	-	137
Turbidity	NTU	0.1	-	5.11
Lead (Pb)-Total	mg/L	0.0005	0.001	0.00036
Oil and Grease, Total	mg/L	2	15	<2.0
Benzene	ug/L	0.5	370	<0.50
Ethylbenzene	ug/L	0.5	90	<0.50
Toluene	ug/L	0.5	2	<0.50
o-Xylene	ug/L	0.5	-	<0.50
m+p-Xylenes	ug/L	1	-	<0.50
Xylenes (Total)	ug/L	1.1	-	<1.1
4-Bromofluorobenzene	%	Surrogate	-	89
1,4-Difluorobenzene	%	Surrogate	-	95.6
F1 (C6-C10)	ug/L	100	-	<100
F1-BTEX	ug/L	100	-	<100
F2 (C10-C16)	ug/L	100	-	<100
F3 (C16-C34)	ug/L	250	-	<250
F4 (C34-C50)	ug/L	250	-	<250
Total Hydrocarbons (C6-C50)	ug/L	380	-	<380
Chrom. to baseline at nC50		n/a	-	YES
2-Bromobenzotrifluoride	%	Surrogate	-	88
3,4-Dichlorotoluene	%	Surrogate	-	92.5

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 5: Effluent Quality Discharge

Limits for Sewage Treatment Facilities to the Ocean

TABLE 2.16 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-MRY-13A

Analyte	Sample ID			MS-MRY-13A	MS-MRY-13A
	ALS Laboratory Sample ID			L2145415-2	L2148365-6
	Sample Date & Time			8/9/2018 4:30:00 PM	8/13/2018 11:55:00 AM
	QA/QC Sample Type			N/A	N/A
	Units	LOR	Water Licence Criteria ¹		
Conductivity	umhos/cm	3	-	730	-
pH	pH units	0.1	6.0 - 9.5	8.1	8.06
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	<2.0	<2.0
Total Dissolved Solids	mg/L	10	-	460	560
Turbidity	NTU	0.1	-	-	0.44
Alkalinity, Total (as CaCO3)	mg/L	10	-	145	-
Dissolved Organic Carbon	mg/L	1	-	4.98	-
Total Organic Carbon	mg/L	1	-	5.33	-
Aluminum (Al)-Total	mg/L	0.005	-	0.0272	-
Antimony (Sb)-Total	mg/L	0.0001	-	0.00011	-
Arsenic (As)-Total	mg/L	0.0001	0.5	0.00017	-
Barium (Ba)-Total	mg/L	0.0002	-	0.0504	-
Beryllium (Be)-Total	mg/L	0.0001	-	<0.00010	-
Bismuth (Bi)-Total	mg/L	0.00005	-	<0.000050	-
Boron (B)-Total	mg/L	0.01	-	0.02	-
Cadmium (Cd)-Total	mg/L	0.00001	-	0.0000144	-
Calcium (Ca)-Total	mg/L	0.5	-	63.2	-
Chromium (Cr)-Total	mg/L	0.0005	-	0.00072	-
Cobalt (Co)-Total	mg/L	0.0001	-	<0.00010	-
Copper (Cu)-Total	mg/L	0.001	0.3	0.0014	-
Iron (Fe)-Total	mg/L	0.05	-	0.04	-
Lead (Pb)-Total	mg/L	0.00005	0.2	0.00011	-
Lithium (Li)-Total	mg/L	0.001	-	0.007	-
Magnesium (Mg)-Total	mg/L	0.05	-	41.2	-
Manganese (Mn)-Total	mg/L	0.0005	-	0.00171	-
Mercury (Hg)-Total	mg/L	0.00001	-	<0.000010	-
Molybdenum (Mo)-Total	mg/L	0.00005	-	0.000363	-
Nickel (Ni)-Total	mg/L	0.0005	0.5	0.00971	-
Potassium (K)-Total	mg/L	0.05	-	2.05	-
Selenium (Se)-Total	mg/L	0.00005	-	0.00005	-
Silicon (Si)-Total	mg/L	0.1	-	4.22	-
Silver (Ag)-Total	mg/L	0.00005	-	<0.000050	-
Sodium (Na)-Total	mg/L	0.5	-	10.9	-
Strontium (Sr)-Total	mg/L	0.001	-	0.0691	-
Thallium (Tl)-Total	mg/L	0.00001	-	0.000013	-
Tin (Sn)-Total	mg/L	0.0001	-	<0.00010	-
Titanium (Ti)-Total	mg/L	0.0003	-	0.00138	-
Tungsten (W)-Total	mg/L	0.0001	-	0.00013	-
Uranium (U)-Total	mg/L	0.00001	-	0.00136	-
Vanadium (V)-Total	mg/L	0.0005	-	<0.00050	-
Zinc (Zn)-Total	mg/L	0.003	0.5	0.0054	-
Zirconium (Zr)-Total	mg/L	0.0003	-	<0.00030	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-
Phenols (4AAP)	mg/L	0.001	-	0.0019	-
F1 (C6-C10)	ug/L	100	-	<100	-
F2 (C10-C16)	ug/L	100	-	<100	-
F3 (C16-C34)	ug/L	250	-	<250	-
F4 (C34-C50)	ug/L	250	-	<250	-
Total Hydrocarbons (C6-C50)	ug/L	380	-	<380	-
Chrom. to baseline at nC50		n/a	-	YES	-
2-Bromobenzotrifluoride	%	Surrogate	-	84.2	-
3,4-Dichlorotoluene	%	Surrogate	-	99.8	-

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 7: Effluent Quality Discharge Limits for the Landfill Facilities

TABLE 2.17 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-MRY-13B

Analyte	Sample ID			MS-MRY-13B	MS-MRY-13B	MS-MRY-13B02	MS-MRY-13B	MS-MRY-13B01
	ALS Laboratory Sample ID			L2145415-1	L2148365-16	L2148365-10	L2157682-17	L2157682-19
	Sample Date & Time			8/9/2018 4:00:00 PM	8/13/2018 11:45:00 AM	8/13/2018 11:45:00 AM	8/27/2018 5:40:00 PM	8/27/2018 5:40:00 PM
	QA/QC Sample Type			N/A	N/A	Field Blank	N/A	Duplicate
	Units	LOR	Water Licence Criteria ¹					
Conductivity	umhos/cm	3	-	1180	-	-	-	-
pH	pH units	0.1	6.0 - 9.5	8.15	8	5.97	8.06	8.06
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	<2.0	<2.0	<2.0	<2.0	<2.0
Total Dissolved Solids	mg/L	10	-	820	1100	<20	1300	1360
Turbidity	NTU	0.1	-	-	0.32	0.18	0.19	0.52
Alkalinity, Total (as CaCO3)	mg/L	10	-	115	-	-	-	-
Dissolved Organic Carbon	mg/L	1	-	5.4	-	-	-	-
Total Organic Carbon	mg/L	1	-	5.07	-	-	-	-
Aluminum (Al)-Total	mg/L	0.005	-	0.0063	-	-	-	-
Antimony (Sb)-Total	mg/L	0.0001	-	<0.00010	-	-	-	-
Arsenic (As)-Total	mg/L	0.0001	0.5	0.00014	-	-	-	-
Barium (Ba)-Total	mg/L	0.0002	-	0.0868	-	-	-	-
Beryllium (Be)-Total	mg/L	0.0001	-	<0.00010	-	-	-	-
Bismuth (Bi)-Total	mg/L	0.00005	-	<0.000050	-	-	-	-
Boron (B)-Total	mg/L	0.01	-	0.037	-	-	-	-
Cadmium (Cd)-Total	mg/L	0.00001	-	0.0000113	-	-	-	-
Calcium (Ca)-Total	mg/L	0.5	-	113	-	-	-	-
Chromium (Cr)-Total	mg/L	0.0005	-	0.00052	-	-	-	-
Cobalt (Co)-Total	mg/L	0.0001	-	<0.00010	-	-	-	-
Copper (Cu)-Total	mg/L	0.001	0.3	0.0012	-	-	-	-
Iron (Fe)-Total	mg/L	0.05	-	0.019	-	-	-	-
Lead (Pb)-Total	mg/L	0.00005	0.2	<0.000050	-	-	-	-
Lithium (Li)-Total	mg/L	0.001	-	0.0226	-	-	-	-
Magnesium (Mg)-Total	mg/L	0.05	-	60.6	-	-	-	-
Manganese (Mn)-Total	mg/L	0.0005	-	0.00104	-	-	-	-
Mercury (Hg)-Total	mg/L	0.00001	-	<0.000010	-	-	-	-
Molybdenum (Mo)-Total	mg/L	0.00005	-	0.000172	-	-	-	-
Nickel (Ni)-Total	mg/L	0.0005	0.5	0.00784	-	-	-	-
Potassium (K)-Total	mg/L	0.05	-	2.26	-	-	-	-
Selenium (Se)-Total	mg/L	0.00005	-	0.000054	-	-	-	-
Silicon (Si)-Total	mg/L	0.1	-	3.68	-	-	-	-
Silver (Ag)-Total	mg/L	0.00005	-	<0.000050	-	-	-	-
Sodium (Na)-Total	mg/L	0.5	-	13.1	-	-	-	-
Strontium (Sr)-Total	mg/L	0.001	-	0.128	-	-	-	-
Thallium (Tl)-Total	mg/L	0.00001	-	0.000012	-	-	-	-
Tin (Sn)-Total	mg/L	0.0001	-	<0.00010	-	-	-	-
Titanium (Ti)-Total	mg/L	0.0003	-	<0.00030	-	-	-	-
Tungsten (W)-Total	mg/L	0.0001	-	<0.00010	-	-	-	-
Uranium (U)-Total	mg/L	0.00001	-	0.0012	-	-	-	-
Vanadium (V)-Total	mg/L	0.0005	-	<0.00050	-	-	-	-
Zinc (Zn)-Total	mg/L	0.003	0.5	<0.0030	-	-	-	-
Zirconium (Zr)-Total	mg/L	0.0003	-	<0.00030	-	-	-	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-	-	-	-
Phenols (4AAP)	mg/L	0.001	-	0.0012	-	-	-	-
F1 (C6-C10)	ug/L	100	-	<100	-	-	-	-
F2 (C10-C16)	ug/L	100	-	<100	-	-	-	-
F3 (C16-C34)	ug/L	250	-	<250	-	-	-	-
F4 (C34-C50)	ug/L	250	-	<250	-	-	-	-
Total Hydrocarbons (C6-C50)	ug/L	380	-	<380	-	-	-	-
Chrom. to baseline at nC50		n/a	-	YES	-	-	-	-
2-Bromobenzotrifluoride	%	Surrogate	-	89.7	-	-	-	-
3,4-Dichlorotoluene	%	Surrogate	-	95.7	-	-	-	-

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 7: Effluent Quality Discharge Limits for the Landfill Facilities

TABLE 2.18 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-C-A

Analyte	Sample ID			MS-C-A	MS-C-A	MS-C-A01	MS-C-A	MS-C-A
	ALS Laboratory Sample ID			L2145426-7	L2148365-9	L2148365-12	L2152561-4	L2157682-6
	Sample Date & Time			8/10/2018 9:40:00 AM	8/13/2018 10:00:00 AM	8/13/2018 10:00:00 AM	8/23/2018 10:20:00 AM	8/28/2018 9:25:00 AM
	QA/QC Sample Type			N/A	N/A	Duplicate	N/A	N/A
	Units	LOR	Water Licence Criteria ¹					
Conductivity	umhos/cm	3	-	160	-	-	190	-
pH	pH units	0.1	6.0 - 9.5	7.92	7.88	7.85	7.93	7.9
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	2.8	<2.0	<2.0	<2.0	<2.0
Total Dissolved Solids	mg/L	10	-	90	104	105	80	108
Turbidity	NTU	0.1	-	6.55	3.3	3.16	1.59	0.65
Ammonia, Total (as N)	mg/L	0.02	-	<0.020	-	-	<0.020	-
Nitrate (as N)	mg/L	0.02	-	0.26	-	-	0.232	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-	-	<2.0	-

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project

TABLE 2.19 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-C-B

Analyte	Sample ID			MS-C-B	MS-C-B	MS-C-B	MS-C-B
	ALS Laboratory Sample ID			L2145426-8	L2148365-18	L2152561-3	L2157682-8
	Sample Date & Time			8/10/2018 10:30:00 AM	8/13/2018 10:20:00 AM	8/23/2018 10:50:00 AM	8/28/2018 9:50:00 AM
	QA/QC Sample Type			N/A	N/A	N/A	N/A
	Units	LOR	Water Licence Criteria ¹				
Conductivity	umhos/cm	3	-	177	-	181	-
pH	pH units	0.1	6.0 - 9.5	7.92	7.84	7.92	7.91
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	<2.0	<2.0	<2.0	<2.0
Total Dissolved Solids	mg/L	10	-	90	105	81	123
Turbidity	NTU	0.1	-	7.33	3.45	1.77	0.72
Ammonia, Total (as N)	mg/L	0.02	-	<0.020	-	<0.020	-
Nitrate (as N)	mg/L	0.02	-	0.279	-	0.259	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-	<2.0	-

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project

TABLE 2.20 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-C-C

Analyte	Sample ID			MS-C-C	MS-C-C	MS-C-C	MS-C-C03
	ALS Laboratory Sample ID			L2145426-6	L2148365-7	L2153239-2	L2153239-3
	Sample Date & Time			8/10/2018 9:10:00 AM	8/13/2018 11:20:05 AM	8/24/2018 10:45:00 AM	8/24/2018 10:45:00 AM
	QA/QC Sample Type			N/A	N/A	N/A	Travel Blank
	Units	LOR	Water Licence Criteria ¹				
Conductivity	umhos/cm	3	-	781	-	1020	<3.0
pH	pH units	0.1	6.0 - 9.5	7.98	7.93	8.01	5.77
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	<2.0	<2.0	<2.0	<2.0
Total Dissolved Solids	mg/L	10	-	545	677	725	<20
Turbidity	NTU	0.1	-	0.9	0.24	0.21	<0.10
Ammonia, Total (as N)	mg/L	0.02	-	<0.020	-	<0.020	<0.020
Nitrate (as N)	mg/L	0.02	-	4.17	-	4.93	<0.020
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-	<2.0	<2.0

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project

TABLE 2.20 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-C-C

Analyte	Sample ID			MS-C-C
	ALS Laboratory Sample ID			L2157682-14
	Sample Date & Time			8/28/2018 10:35:00 AM
	QA/QC Sample Type			N/A
	Units	LOR	Water Licence Criteria ¹	
Conductivity	umhos/cm	3	-	-
pH	pH units	0.1	6.0 - 9.5	8.09
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	3.1
Total Dissolved Solids	mg/L	10	-	786
Turbidity	NTU	0.1	-	0.54
Ammonia, Total (as N)	mg/L	0.02	-	-
Nitrate (as N)	mg/L	0.02	-	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	-

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project

TABLE 2.21 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-C-D

Analyte	Sample ID			MS-C-D	MS-C-D	MS-C-D	MS-C-D	MS-C-D02
	ALS Laboratory Sample ID			L2145426-10	L2148365-8	L2152561-2	L2157682-9	L2157682-7
	Sample Date & Time			8/10/2018 9:00:00 AM	8/13/2018 11:10:00 AM	8/23/2018 4:35:00 PM	8/28/2018 10:20:00 AM	8/28/2018 10:20:00 AM
	QA/QC Sample Type			N/A	N/A	N/A	N/A	Field Blank
	Units	LOR	Water Licence Criteria ¹					
Conductivity	umhos/cm	3	-	684	-	888	-	-
pH	pH units	0.1	6.0 - 9.5	8.34	8.29	8.36	8.26	6
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	2	2.8	<2.0	<2.0	<2.0
Total Dissolved Solids	mg/L	10	-	450	490	575	597	11
Turbidity	NTU	0.1	-	5.47	5.77	2.34	1.82	0.2
Ammonia, Total (as N)	mg/L	0.02	-	0.02	-	<0.020	-	-
Nitrate (as N)	mg/L	0.02	-	3.87	-	4.33	-	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-	<2.0	-	-

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project

TABLE 2.22 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-C-E

Analyte	Sample ID			MS-C-E	MS-C-E	MS-C-E
	ALS Laboratory Sample ID			L2145426-9	L2148365-11	L2152561-1
	Sample Date & Time			8/10/2018 7:50:00 AM	8/13/2018 10:55:00 AM	8/23/2018 4:05:00 PM
	QA/QC Sample Type			N/A	N/A	N/A
	Units	LOR	Water Licence Criteria ¹			
Conductivity	umhos/cm	3	-	1380	-	1380
pH	pH units	0.1	6.0 - 9.5	7.66	7.83	7.97
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	<2.0	2.8	<2.0
Total Dissolved Solids	mg/L	10	-	1200	1130	1040
Turbidity	NTU	0.1	-	2.93	1.42	0.61
Ammonia, Total (as N)	mg/L	0.02	-	0.334	-	0.154
Nitrate (as N)	mg/L	0.02	-	4.69	-	5.75
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-	<2.0

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project

TABLE 2.23 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-C-F

Analyte	Sample ID			MS-C-F	MS-C-F01	MS-C-F	MS-C-F	MS-C-F
	ALS Laboratory Sample ID			L2145426-11	L2145426-12	L2148365-2	L2152564-1	L2157682-18
	Sample Date & Time			8/10/2018 6:05:00 PM	8/10/2018 6:05:00 PM	8/13/2018 6:10:00 PM	8/22/2018 12:10:00 PM	8/27/2018 6:10:00 PM
	QA/QC Sample Type			N/A	Duplicate	N/A	N/A	N/A
	Units	LOR	Water Licence Criteria ¹					
Conductivity	umhos/cm	3	-	189	188	-	195	-
pH	pH units	0.1	6.0 - 9.5	7.96	7.97	7.89	7.93	7.98
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	3.6	3.2	4	<2.0	<2.0
Total Dissolved Solids	mg/L	10	-	105	95	100	80	110
Turbidity	NTU	0.1	-	28.2	32.8	17	6.98	4.48
Ammonia, Total (as N)	mg/L	0.02	-	<0.020	<0.020	-	0.026	-
Nitrate (as N)	mg/L	0.02	-	0.378	0.396	-	0.327	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	<2.0	-	<2.0	-

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project

TABLE 2.24 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-C-G

Analyte	Sample ID			MS-C-G	MS-C-G	MS-C-G	MS-C-G
	ALS Laboratory Sample ID			L2145415-5	L2148365-3	L2152561-5	L2157682-16
	Sample Date & Time			8/9/2018 2:40:00 PM	8/13/2018 5:15:00 PM	8/23/2018 12:10:00 PM	8/27/2018 4:50:00 PM
	QA/QC Sample Type			N/A	N/A	N/A	N/A
	Units	LOR	Water Licence Criteria ¹				
Conductivity	umhos/cm	3	-	177	-	194	-
pH	pH units	0.1	6.0 - 9.5	8.21	7.96	8	8
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	<2.0	<2.0	<2.0	<2.0
Total Dissolved Solids	mg/L	10	-	105	119	70	112
Turbidity	NTU	0.1	-	0.23	0.22	1.86	0.26
Ammonia, Total (as N)	mg/L	0.02	-	<0.020	-	<0.020	-
Nitrate (as N)	mg/L	0.02	-	1.25	-	1.27	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-	<2.0	-

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project

TABLE 2.25 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-C-H

Analyte	Sample ID			MS-C-H	MS-C-H	MS-C-H	MS-C-H01	MS-C-H
	ALS Laboratory Sample ID			L2145415-3	L2148365-1	L2152561-6	L2152561-7	L2157682-12
	Sample Date & Time			8/9/2018 3:20:00 PM	8/13/2018 5:40:00 PM	8/23/2018 11:40:00 AM	8/23/2018 11:40:00 AM	8/27/2018 5:10:00 PM
	QA/QC Sample Type			N/A	N/A	N/A	Duplicate	N/A
	Units	LOR	Water Licence Criteria ¹					
Conductivity	umhos/cm	3	-	192	-	216	215	-
pH	pH units	0.1	6.0 - 9.5	8.23	8.13	8.21	8.2	8.13
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	<2.0	<2.0	<2.0	<2.0	<2.0
Total Dissolved Solids	mg/L	10	-	105	121	125	95	118
Turbidity	NTU	0.1	-	0.19	0.22	1.84	1.55	0.26
Ammonia, Total (as N)	mg/L	0.02	-	<0.020	-	<0.020	<0.020	-
Nitrate (as N)	mg/L	0.02	-	0.246	-	0.057	0.057	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-	<2.0	<2.0	-

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project

TABLE 2.26 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MQ-C-A

Analyte	Sample ID			MQ-C-A	MQ-C-A	MQ-C-A	MQ-C-A	MQ-C-A01
	ALS Laboratory Sample ID			L2145415-4	L2148365-17	L2152564-4	L2157682-5	L2157682-4
	Sample Date & Time			8/9/2018 12:10:00 PM	8/13/2018 9:25:00 AM	8/22/2018 10:50:00 AM	8/28/2018 8:25:00 AM	8/28/2018 8:25:00 AM
	QA/QC Sample Type			N/A	N/A	N/A	N/A	Duplicate
	Units	LOR	Water Licence Criteria ¹					
Conductivity	umhos/cm	3	-	231	-	269	-	-
pH	pH units	0.1	6.0 - 9.5	8.26	8.14	8.18	8.16	8.17
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	<2.0	<2.0	<2.0	7	<2.0
Total Dissolved Solids	mg/L	10	-	140	157	141	174	183
Turbidity	NTU	0.1	-	0.27	0.43	0.31	0.21	0.28
Ammonia, Total (as N)	mg/L	0.02	-	0.047	-	0.036	-	-
Nitrate (as N)	mg/L	0.02	-	<0.020	-	<0.020	-	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-	<2.0	-	-
Acute Toxicity			Non-lethal	-	-	-	-	-

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project

TABLE 2.27 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MQ-C-B

Analyte	Sample ID			MQ-C-B	MQ-C-B01	MQ-C-B	MQ-C-B
	ALS Laboratory Sample ID			L2145415-6	L2145415-7	L2148408-1	L2148365-19
	Sample Date & Time			8/9/2018 5:10:00 PM	8/9/2018 5:10:00 PM	8/15/2018 2:55:00 PM	8/14/2018 2:15:00 PM
	QA/QC Sample Type			N/A	Duplicate	N/A	N/A
	Units	LOR	Water Licence Criteria ¹				
Conductivity	umhos/cm	3	-	291	289	368	-
pH	pH units	0.1	6.0 - 9.5	8.28	8.27	8.2	8.21
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	2	2.4	<2.0	2
Total Dissolved Solids	mg/L	10	-	175	180	223	210
Turbidity	NTU	0.1	-	5.25	4.87	1.75	1.28
Ammonia, Total (as N)	mg/L	0.02	-	0.278	0.258	3.42	-
Nitrate (as N)	mg/L	0.02	-	3.47	3.46	5.79	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	<2.0	<2.0	-
Acute Toxicity			Non-lethal	-	-	Non-lethal	-

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality
Discharge Limits for Contact Water during the Operations Phase and the Early Revenue
Phase of the Project

TABLE 2.27 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MQ-C-B

Analyte	Sample ID			MQ-C-B	MQ-C-B
	ALS Laboratory Sample ID			L2152564-3	L2157682-10
	Sample Date & Time			8/22/2018 11:45:00 AM	8/28/2018 9:05:00 AM
	QA/QC Sample Type			N/A	N/A
	Units	LOR	Water Licence Criteria ¹		
Conductivity	umhos/cm	3	-	354	-
pH	pH units	0.1	6.0 - 9.5	8.16	8.13
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	<2.0	<2.0
Total Dissolved Solids	mg/L	10	-	198	239
Turbidity	NTU	0.1	-	1.11	0.99
Ammonia, Total (as N)	mg/L	0.02	-	0.258	-
Nitrate (as N)	mg/L	0.02	-	4.61	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-
Acute Toxicity			Non-lethal	-	-

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality
Discharge Limits for Contact Water during the Operations Phase and the Early Revenue
Phase of the Project

TABLE 2.28 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MQ-C-D

Analyte	Sample ID			MQ-C-D	MQ-C-D	MQ-C-D	MQ-C-D
	ALS Laboratory Sample ID			L2145415-8	L2148365-13	L2152564-2	L2157682-15
	Sample Date & Time			8/9/2018 12:20:00 PM	8/13/2018 9:35:00 AM	8/22/2018 11:10:00 PM	8/28/2018 8:40:00 AM
	QA/QC Sample Type			N/A	N/A	N/A	N/A
	Units	LOR	Water Licence Criteria ¹				
Conductivity	umhos/cm	3	-	306	-	335	-
pH	pH units	0.1	6.0 - 9.5	8.26	8.11	8.07	8.09
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	6.4	9.6	3.2	<2.0
Total Dissolved Solids	mg/L	10	-	195	190	176	196
Turbidity	NTU	0.1	-	38	17.7	11.2	7.53
Ammonia, Total (as N)	mg/L	0.02	-	0.268	-	0.12	-
Nitrate (as N)	mg/L	0.02	-	3.85	-	3.5	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-	<2.0	-

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project

TABLE 2.29 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MQ-C-E

Analyte	Sample ID			MQ-C-E	MQ-C-E	MQ-C-E	MQ-C-E
	ALS Laboratory Sample ID			L2145426-5	L2148408-2	L2153239-4	L2157682-11
	Sample Date & Time			8/10/2018 12:20:00 PM	8/15/2018 5:45:00 PM	8/24/2018 9:30:00 AM	8/27/2018 6:20:00 PM
	QA/QC Sample Type			N/A	N/A	N/A	N/A
	Units	LOR	Water Licence Criteria ¹				
Conductivity	umhos/cm	3	-	543	-	516	-
pH	pH units	0.1	6.0 - 9.5	7.46	8.06	7.99	7.98
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	<2.0	6.4	<2.0	<2.0
Total Dissolved Solids	mg/L	10	-	355	345	320	346
Turbidity	NTU	0.1	-	1.23	3.64	2.13	1.54
Ammonia, Total (as N)	mg/L	0.02	-	<0.020	-	<0.020	-
Nitrate (as N)	mg/L	0.02	-	3.85	-	4.3	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-	<2.0	-

Notes:

Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project

Table 3: Flow and Volume Measurements-Part I Item 11 - August 2018

DATE	Camp Lake Freshwater Use (Mine Site Camp) - Daily Potable Water (m³) MS-MRY-1	Treated Sewage Effluent (m³) from MS-01 to Discharge Location #1	Treated Sewage Effluent (m³) from MS-01b to Discharge Location #1	Sewage Sludge Removed (m³) from Mine Site WWTPs to Incinerator	Sewage Sludge Removed (m³) from Lift Stations to PWSP at Mine Site - MS-MRY-4b	Km 32 Lake Milne Port Camp Daily Potable Water (m³) MP-MRY-3	Treated Sewage Effluent (m³) from MP-01 to Milne Port	Sewage Sludge Removed (m³) from Milne Port WWTP to Incinerator	Sewage Sludge Removed (m³) from Milne Port WWTP to PWSP at Milne Port - MP- 01a	Treated Sewage Effluent (m3) from MP-01a to Milne Port	Effluent Discharge (m³) from Mine Site Crusher Pad Sedimentation Pond (MS-06)	Effluent Discharge (m³) from Mine Site Waste Rock Stockpile Pond (MS-08)	Effluent Discharge (m³) from Milne Port Ore Stockpile Sedimentation Pond (East) to Milne Port (MP-05)	Effluent Discharge (m³) from Milne Port Ore Stockpile Sedimentation Pond (West) to Milne Port (MP-06)	Water Use for Dust Suppression from Authorized Sources	Treated Oily Water (m³) from Exploration Camp Bulk Fuel Storage Facility to Tundra (MS-MRY-6)	Effluent Discharge (m³) from Milne Port Bulk Fuel Tank farm Facility to Milne Port (MP-03)
1-Aug-18	145.0	107.2	37.8	1.0	0.0	49.4	58.0	0.4	0.0	0.0	53.2	1018.5	0.0	0.0	0.0	0.0	0.0
2-Aug-18	123.0	85.2	37.8	1.1	0.0	50.4	58.0	0.4	0.0	0.0	52.2	2071.4	0.0	0.0	0.0	0.0	0.0
3-Aug-18	112.3	77.7	34.6	1.1	0.0	53.3	48.0	0.5	0.0	0.0	99.1	4648.7	0.0	0.0	0.0	0.0	0.0
4-Aug-18	145.0	111.3	33.7	1.1	0.0	48.6	62.0	0.5	0.0	0.0	48.6	2348.6	0.0	0.0	0.0	0.0	0.0
5-Aug-18	95.4	63.1	32.3	0.7	0.0	61.3	54.0	0.5	0.0	0.0	49.0	4916.1	0.0	0.0	0.0	0.0	0.0
6-Aug-18	128.1	93.9	34.2	1.1	0.0	49.2	59.0	0.5	0.0	0.0	0.0	3872.4	0.0	0.0	0.0	0.0	0.0
7-Aug-18	127.0	78.4	48.6	1.1	0.0	56.5	61.0	0.2	0.0	0.0	180.2	2315.1	0.0	0.0	90.8	0.0	0.0
8-Aug-18	130.4	81.9	48.5	1.3	0.0	65.7	57.0	0.5	0.0	0.0	142.7	1126.9	119.5	122.8	0.0	0.0	0.0
9-Aug-18	119.1	81.7	37.4	1.1	0.0	56.2	64.0	0.5	0.0	0.0	128.6	33.6	400.4	225.8	0.0	0.0	0.0
10-Aug-18	78.8	41.9	36.9	1.1	0.0	47.8	48.0	0.5	0.0	0.0	0.0	481.8	719.0	779.1	0.0	0.0	0.0
11-Aug-18	141.3	107.3	34.0	0.7	0.0	35.2	47.0	0.3	0.0	0.0	20.1	1937.4	7.9	389.4	212.0	0.0	0.0
12-Aug-18	97.7	52.2	45.5	1.1	0.0	60.4	59.0	0.8	8.5	0.0	0.0	2238.6	0.0	150.2	181.7	0.0	0.0
13-Aug-18	147.3	112.5	34.8	1.0	0.0	63.0	60.0	0.6	2.8	0.0	0.0	1817.3	0.0	0.0	272.5	0.0	0.0
14-Aug-18	106.8	73.7	33.1	1.1	0.0	53.8	60.0	0.5	0.0	0.0	0.0	1626.0	0.0	0.0	151.4	0.0	0.0
15-Aug-18	138.5	91.2	47.3	0.7	0.0	44.3	56.0	0.3	0.0	0.0	0.0	843.7	0.0	0.0	242.3	0.0	0.0
16-Aug-18	105.5	76.6	28.9	0.8	0.0	39.8	49.0	0.7	0.0	0.0	0.0	769.4	0.0	0.0	212.0	0.0	550.8
17-Aug-18	153.8	108.5	45.3	0.8	0.0	48.8	47.0	0.7	0.0	0.0	6.7	907.0	0.0	0.0	60.6	0.0	379.2
18-Aug-18	169.7	122.7	47.0	0.9	0.0	49.6	54.0	0.7	0.0	0.0	0.0	279.1	0.0	0.0	30.3	0.0	47.6
19-Aug-18	165.2	115.9	49.3	0.9	0.0	47.2	49.0	0.7	0.0	0.0	0.0	1186.9	0.0	0.0	0.0	0.0	0.0
20-Aug-18	167.4	138.8	28.6	0.9	0.0	45.6	56.0	0.7	0.0	0.0	0.0	284.0	0.0	0.0	0.0	0.0	0.0
21-Aug-18	159.4	115.2	44.2	0.6	0.0	49.6	54.0	0.7	0.0	0.0	0.0	562.0	0.0	0.0	0.0	0.0	0.0
22-Aug-18	165.8	113.8	52.0	0.6	0.0	49.1	51.0	0.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23-Aug-18	119.9	93.1	26.8	0.6	0.0	54.2	62.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24-Aug-18	147.0	96.3	50.7	0.6	0.0	48.4	47.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25-Aug-18	110.0	65.4	44.6	0.4	0.0	62.4	56.0	0.3	0.0	0.0	0.0	0.4	42.9	0.0	151.4	31.9	0.0
26-Aug-18	135.9	87.3	48.6	0.3	0.0	43.4	55.0	0.5	0.0	0.0	0.0	1662.9	46.4	0.0	121.1	19.4	0.0
27-Aug-18	205.4	160.3	45.1	0.5	2.0	53.9	47.0	0.7	0.0	0.0	0.0	825.0	0.0	0.0	0.0	19.0	0.0
28-Aug-18	138.6	104.0	34.6	0.1	0.0	62.7	47.0	0.3	0.0	66.5	3.2	0.0	0.0	0.0	0.0	16.7	0.0
29-Aug-18	159.0	121.3	37.7	0.1	0.0	52.8	60.0	0.6	0.0	165.8	0.0	912.8	0.0	0.0	90.8	6.2	0.0
30-Aug-18	209.0	168.6	40.4	0.9	0.0	47.9	55.0	0.6	0.0	164.9	0.0	618.0	0.0	0.0	242.3	9.3	0.0
31-Aug-18	175.6	131.3	44.3	1.0	0.0	58.3	69.0	0.4	0.0	165.9	0.0	44.4	0.0	0.0	234.7	22.1	0.0
Total	4322.8	3078.2	1244.6	24.8	2.0	1608.8	1709.0	16.5	12.3	563.0	783.4	39347.8	1336.2	1667.4	2293.9	124.6	977.6

Notes:

WWTP - Waste Water Treatment Plant
PWSP - Polishing Waste Stabilization Pond