

September 30, 2024

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

Resource Management Officer, CIRNAC
Nunavut District, Nunavut Region
P.O. Box 100
Iqaluit, NU X0A 0H0

**RE: Water Licence 2AM-MRY1325 Monthly Surveillance Network Program (SNP) Report
August 2024**

The following is the monthly report for August 2024 as required under Part I, Item 21 of the Type 'A' Water Licence 2AM-MRY1325 (the Licence) which 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 identify areas of non-compliance with regulated discharge parameters referred to in Part F"*

Monitoring Program

Table 1.1 presents a list of samples/monitoring conducted in August under the Licence at sites with discharge/flowing water conditions and the details concerning the collected water quality samples, including sample dates and laboratory identification numbers. Analytical water quality testing results are presented in Table 2. Table 3.1 presents water volumes consumed for domestic and industrial water purposes as well as select volumes of effluent and waste discharged and/or disposed at the Mary River Mine Site and Milne Port during August 2024.

Monitoring Program Results

Water Sampling and Analysis Results

Table 2 provides the analytical results related to the Sewage Treatment Plant (STP) facilities and SNP sampling requirements. In August 2024, there were no exceedances of applicable criteria at STP or SNP surface water monitoring stations.

On May 10, 2024, an uncontrolled release from the KM105 Surface Water Management Pond (KM105 Pond) to the isolated adjacent tundra occurred due to seepage upstream of the northwest embankment. A summary of this incident and the actions taken by Baffinland was reported in the May report submitted on June 30, 2024. In addition, details on initial mitigative actions were provided in the follow-up spill report submitted June 10, 2024. Monthly Water Licence samples will continue to be collected at an established representative water quality monitoring station when flowing water is present, and a representative sample can be collected.

Flow and Volume Measurements

Table 3.1 provides a breakdown of volume measurements for August 2024, as required by Part I, Item 9 of the Licence. There were no exceedances of the source specific daily volume withdrawal limits in August 2024.

We trust that the information provided in this monthly report is acceptable. If you have any questions regarding this report, please contact the undersigned.

Prepared by:



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Reviewed by:



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Environmental Superintendent

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Connor Devereaux, Katie Babin, Dale Kristoff, Irniq Lecompte (Baffinland)

Attachments

Attachments – Table 1.1, Table 2, Table 3.1

**Table 1.1: Monitoring Program
Water Sampling Summary**

Location	Location Description	Sample Date	Sample Type	Lab Sample ID
MP-01	Sewage Treatment Facility	2024-08-06	P	WT2422478-001
MP-01B	Sewage Treatment Facility	2024-08-06	P	WT2422478-003
MP-06	Ore Stockpile Sedimentation Pond (West)	2024-08-15	P	BF2400260-001
MP-C-B	Downstream of Construction Area	2024-08-04	P	WT2422925-005
MP-C-B	Downstream of Construction Area	2024-08-11	P	BF2400244-002
MP-C-B	Downstream of Construction Area	2024-08-18	P	BF2400269-003
MP-C-B	Downstream of Construction Area	2024-08-26	FD	BF2400292-002
MP-C-B	Downstream of Construction Area	2024-08-26	P	BF2400292-005
MP-C-K	Downstream of Construction Area	2024-08-04	P	WT2422925-004
MP-C-K	Downstream of Construction Area	2024-08-11	P	BF2400244-004
MP-C-K	Downstream of Construction Area	2024-08-18	P	BF2400269-004
MP-C-K	Downstream of Construction Area	2024-08-26	P	BF2400292-004
MP-C-H	Downstream of Construction Area	2024-08-04	P	WT2422925-001
MP-C-H	Downstream of Construction Area	2024-08-11	P	BF2400244-001
MP-C-H	Downstream of Construction Area	2024-08-18	FD	BF2400269-002
MP-C-H	Downstream of Construction Area	2024-08-18	P	BF2400269-001
MP-C-H	Downstream of Construction Area	2024-08-26	P	BF2400292-001
MP-C-J	Downstream of Construction Area	2024-08-04	FD	WT2422925-003
MP-C-J	Downstream of Construction Area	2024-08-04	P	WT2422925-002
MP-C-J	Downstream of Construction Area	2024-08-11	P	BF2400244-003
MP-C-J	Downstream of Construction Area	2024-08-18	P	BF2400269-006
MP-C-J	Downstream of Construction Area	2024-08-26	P	BF2400292-003
MP-Q1-01	Downstream of Q1 Quarry	2024-08-05	P	WT2422925-007
MP-Q1-01	Downstream of Q1 Quarry	2024-08-11	P	BF2400244-005
MP-Q1-01	Downstream of Q1 Quarry	2024-08-26	P	BF2400292-007
MP-Q1-02	Downstream of Q1 Quarry	2024-08-04	P	WT2422925-006
MP-Q1-02	Downstream of Q1 Quarry	2024-08-11	FD	BF2400244-007
MP-Q1-02	Downstream of Q1 Quarry	2024-08-11	P	BF2400244-006
MP-Q1-02	Downstream of Q1 Quarry	2024-08-18	P	BF2400269-005
MP-Q1-02	Downstream of Q1 Quarry	2024-08-26	P	BF2400292-006
MS-01	Sewage Treatment Facility	2024-08-06	P	WT2422480-001

Notes:
Sample Types:
P - Permitted Sample
FB - Field Blank
FD - Field Duplicate
TB - Trip Blank
NST - No Sample Taken

**Table 1.1: Monitoring Program
Water Sampling Summary**

Location	Location Description	Sample Date	Sample Type	Lab Sample ID
MS-01B	Sewage Treatment Facility	2024-08-06	P	WT2422480-003
MS-03B	Mine Site Bulk Fuel Storage Facility Stormwater	2024-08-25	P	BF2400287-001
MS-08	Mine Waste Rock Stockpile Pond	2024-08-06	P	BF2400227-001
KM105-SWMP-SEEP-04	Mine KM105 Pond	2024-08-14	P	BF2400257-001
MS-MRY-09	Deposit 1 Surface Water Drainage	2024-08-05	P	BF2400228-005
MS-MRY-09	Deposit 1 Surface Water Drainage	2024-08-13	P	BF2400254-001
MS-MRY-09	Deposit 1 Surface Water Drainage	2024-08-20	FB	BF2400274-002
MS-MRY-09	Deposit 1 Surface Water Drainage	2024-08-20	P	BF2400274-001
MS-MRY-09	Deposit 1 Surface Water Drainage	2024-08-26	P	BF2400291-015
MS-MRY-13A	Downstream Non-Hazardous Landfill	2024-08-04	FD	BF2400225-005
MS-MRY-13A	Downstream Non-Hazardous Landfill	2024-08-04	P	BF2400225-004
MS-MRY-13B	Downstream Non-Hazardous Landfill	2024-08-04	P	BF2400225-002
MS-MRY-13B	Downstream Non-Hazardous Landfill	2024-08-11	P	BF2400247-001
MS-MRY-13B	Downstream Non-Hazardous Landfill	2024-08-19	P	BF2400270-010
MS-MRY-13B	Downstream Non-Hazardous Landfill	2024-08-26	P	BF2400291-014
MS-C-A	Downstream of Construction and Borrow Areas	2024-08-05	P	BF2400228-001
MS-C-A	Downstream of Construction and Borrow Areas	2024-08-11	P	BF2400247-010
MS-C-A	Downstream of Construction and Borrow Areas	2024-08-19	P	BF2400270-004
MS-C-A	Downstream of Construction and Borrow Areas	2024-08-25	FB	BF2400291-005
MS-C-A	Downstream of Construction and Borrow Areas	2024-08-25	P	BF2400291-004
MS-C-B	Downstream of Construction and Borrow Areas	2024-08-05	P	BF2400228-002
MS-C-B	Downstream of Construction and Borrow Areas	2024-08-11	P	BF2400247-011
MS-C-B	Downstream of Construction and Borrow Areas	2024-08-19	P	BF2400270-005
MS-C-B	Downstream of Construction and Borrow Areas	2024-08-25	P	BF2400291-006
MS-C-C	Downstream of Construction and Borrow Areas	2024-08-05	P	BF2400228-003
MS-C-C	Downstream of Construction and Borrow Areas	2024-08-11	P	BF2400247-006

Notes:
Sample Types:
P - Permitted Sample
FB - Field Blank
FD - Field Duplicate
TB - Trip Blank
NST - No Sample Taken

**Table 1.1: Monitoring Program
Water Sampling Summary**

Location	Location Description	Sample Date	Sample Type	Lab Sample ID
MS-C-C	Downstream of Construction and Borrow Areas	2024-08-19	P	BF2400270-013
MS-C-C	Downstream of Construction and Borrow Areas	2024-08-26	P	BF2400291-013
MS-C-D	Downstream of Construction and Borrow Areas	2024-08-05	P	BF2400228-004
MS-C-D	Downstream of Construction and Borrow Areas	2024-08-11	P	BF2400247-007
MS-C-D	Downstream of Construction and Borrow Areas	2024-08-19	P	BF2400270-012
MS-C-D	Downstream of Construction and Borrow Areas	2024-08-26	P	BF2400291-012
MS-C-E	Downstream of Construction and Borrow Areas	2024-08-04	FD	BF2400225-011
MS-C-E	Downstream of Construction and Borrow Areas	2024-08-04	P	BF2400225-009
MS-C-E	Downstream of Construction and Borrow Areas	2024-08-11	P	BF2400247-008
MS-C-E	Downstream of Construction and Borrow Areas	2024-08-19	P	BF2400270-011
MS-C-E	Downstream of Construction and Borrow Areas	2024-08-26	P	BF2400291-011
MS-C-F	Downstream of Construction and Borrow Areas	2024-08-04	P	BF2400225-001
MS-C-F	Downstream of Construction and Borrow Areas	2024-08-11	P	BF2400247-009
MS-C-F	Downstream of Construction and Borrow Areas	2024-08-19	P	BF2400270-006
MS-C-F	Downstream of Construction and Borrow Areas	2024-08-25	P	BF2400291-007
MS-C-G	Downstream of Construction and Borrow Areas	2024-08-04	P	BF2400225-008
MS-C-G	Downstream of Construction and Borrow Areas	2024-08-11	FB	BF2400247-003
MS-C-G	Downstream of Construction and Borrow Areas	2024-08-11	P	BF2400247-002
MS-C-G	Downstream of Construction and Borrow Areas	2024-08-19	FD	BF2400270-008
MS-C-G	Downstream of Construction and Borrow Areas	2024-08-19	P	BF2400270-007
MS-C-G	Downstream of Construction and Borrow Areas	2024-08-25	P	BF2400291-008

Notes:
Sample Types:
P - Permitted Sample
FB - Field Blank
FD - Field Duplicate
TB - Trip Blank
NST - No Sample Taken

**Table 1.1: Monitoring Program
Water Sampling Summary**

Location	Location Description	Sample Date	Sample Type	Lab Sample ID
MS-C-H	Downstream of Construction and Borrow Areas	2024-08-04	P	BF2400225-010
MS-C-H	Downstream of Construction and Borrow Areas	2024-08-11	FD	BF2400247-005
MS-C-H	Downstream of Construction and Borrow Areas	2024-08-11	P	BF2400247-004
MS-C-H	Downstream of Construction and Borrow Areas	2024-08-19	P	BF2400270-009
MS-C-H	Downstream of Construction and Borrow Areas	2024-08-25	P	BF2400291-009
MQ-C-A	Downstream of QMR2 Quarry	2024-08-04	P	BF2400225-003
MQ-C-A	Downstream of QMR2 Quarry	2024-08-12	P	BF2400247-014
MQ-C-A	Downstream of QMR2 Quarry	2024-08-19	P	BF2400270-001
MQ-C-A	Downstream of QMR2 Quarry	2024-08-25	P	BF2400291-001
MQ-C-A	Downstream of QMR2 Quarry	2024-08-25	TB	BF2400291-002
MQ-C-B	Downstream of QMR2 Quarry	2024-08-04	P	BF2400225-007
MQ-C-B	Downstream of QMR2 Quarry	2024-08-11	P	BF2400247-012
MQ-C-B	Downstream of QMR2 Quarry	2024-08-19	P	BF2400270-003
MQ-C-B	Downstream of QMR2 Quarry	2024-08-25	P	BF2400291-010
MQ-C-D	Downstream of QMR2 Quarry	2024-08-04	P	BF2400225-006
MQ-C-D	Downstream of QMR2 Quarry	2024-08-11	P	BF2400247-013
MQ-C-D	Downstream of QMR2 Quarry	2024-08-19	P	BF2400270-002
MQ-C-D	Downstream of QMR2 Quarry	2024-08-25	P	BF2400291-003

Notes:
Sample Types:
P - Permitted Sample
FB - Field Blank
FD - Field Duplicate
TB - Trip Blank
NST - No Sample Taken



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-01

		Location Name	MP-01
		Field Sample ID	MP-01_2024-08-06
		ALS Laboratory Work Order	WT2422478
		Sample Date	2024-08-06
		Sample Type	P
Analyte	Units	Criteria	
pH, Lab	pH units	6.0 - 9.5	7.87
Total Suspended Solids	mg/L	120	< 1.0
Total Dissolved Solids	mg/L	-	942
Turbidity	NTU	-	0.50
Alkalinity, Total	mg/L	-	72.3
Ammonia, Total (as N)	mg/L	-	0.0310
Total Kjeldahl Nitrogen	mg/L	-	< 0.050
Fecal Coliforms	CFU/100mL	10000	< 1
BOD	mg/L	100	< 2.0
Oil and Grease, Total	mg/L	-	< 5.0
Phosphorus, Nutrient	mg/L	-	7.06

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-01B

			Location Name	MP-01B
			Field Sample ID	MP-01B_2024-08-06
			ALS Laboratory Work Order	WT2422478
			Sample Date	2024-08-06
			Sample Type	P
Analyte		Units	Criteria	
pH, Lab	pH units	6.0 - 9.5	6.51	
Total Suspended Solids	mg/L	120	< 1.0	
Total Dissolved Solids	mg/L	-	582	
Turbidity	NTU	-	< 0.10	
Alkalinity, Total	mg/L	-	10.1	
Ammonia, Total (as N)	mg/L	-	0.0195	
Total Kjeldahl Nitrogen	mg/L	-	1.21	
Fecal Coliforms	CFU/100mL	10000	2	
BOD	mg/L	100	< 2.0	
Oil and Grease, Total	mg/L	-	< 5.0	
Phosphorus, Nutrient	mg/L	-	8.44	

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



**Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-06**

			Location Name
			MP-06
			Field Sample ID
			MP-06_2024-08-15
			ALS Laboratory Work Order
			BF2400260
			Sample Date
			2024-08-15
			Sample Type
			P
Analyte	Units	Criteria	
Hardness	mg/L	-	336
pH, Lab	pH units	6.0 - 9.5	8.23
Total Suspended Solids	mg/L	15	< 1.0
Total Dissolved Solids	mg/L	-	505
Turbidity	NTU	-	6.22
Alkalinity, Total	mg/L	-	162
Ammonia, Total (as N)	mg/L	-	0.0360
Chloride	mg/L	-	105
Fluoride	mg/L	-	0.196
Nitrate	mg/L	-	3.28
Total Kjeldahl Nitrogen	mg/L	-	0.497
Sulfate	mg/L	-	86.1
Dissolved Organic Carbon	mg/L	-	4.58
Total Organic Carbon	mg/L	-	4.66
Aluminum - Total	mg/L	-	0.0443
Antimony - Total	mg/L	-	< 0.00100
Arsenic - Total	mg/L	0.50	< 0.00100
Barium - Total	mg/L	-	0.0161
Cadmium - Total	mg/L	-	< 0.0000500
Calcium - Total	mg/L	-	73.1
Chromium - Total	mg/L	-	< 0.00500
Cobalt - Total	mg/L	-	< 0.00100
Copper - Total	mg/L	0.30	< 0.00500
Iron - Total	mg/L	-	0.103
Lead - Total	mg/L	0.20	< 0.000500
Lithium - Total	mg/L	-	0.0138
Magnesium - Total	mg/L	-	37.2
Manganese - Total	mg/L	-	0.0191
Mercury - Total	mg/L	-	< 0.0000050
Molybdenum - Total	mg/L	-	0.00493
Nickel - Total	mg/L	0.50	< 0.00500
Phosphorus, Total	mg/L	-	< 0.500
Potassium - Total	mg/L	-	8.06
Selenium - Total	mg/L	-	< 0.000500
Sodium - Total	mg/L	-	43.4
Strontium - Total	mg/L	-	0.208
Thallium - Total	mg/L	-	< 0.000100
Tin - Total	mg/L	-	< 0.00100
Titanium - Total	mg/L	-	< 0.00300
Uranium - Total	mg/L	-	0.144
Vanadium - Total	mg/L	-	< 0.00500
Zinc - Total	mg/L	0.50	< 0.0300
Aluminum - Dissolved	mg/L	-	0.0210
Arsenic - Dissolved	mg/L	-	< 0.00100
Cadmium - Dissolved	mg/L	-	< 0.0000500
Calcium - Dissolved	mg/L	-	70.7
Copper - Dissolved	mg/L	-	< 0.00200
Iron - Dissolved	mg/L	-	< 0.100
Lead - Dissolved	mg/L	-	< 0.000500
Magnesium - Dissolved	mg/L	-	36.2
Manganese - Dissolved	mg/L	-	0.0122
Mercury - Dissolved	mg/L	-	< 0.0000050
Molybdenum - Dissolved	mg/L	-	0.00466
Nickel - Dissolved	mg/L	-	< 0.00500
Potassium - Dissolved	mg/L	-	7.72
Selenium - Dissolved	mg/L	-	< 0.000500
Sodium - Dissolved	mg/L	-	42.5

Notes:

Highlight indicate result exceeded applicable criteria.

Half value used in monthly average when value is less than detection limit.

pH criteria is a range;6.0-9.5.

Sample Type:

P-Permitted

FD-Field Duplicate

FB-Field Blank

TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-06

			Location Name	MP-06
			Field Sample ID	MP-06_2024-08-15
			ALS Laboratory Work Order	BF2400260
			Sample Date	2024-08-15
			Sample Type	P
Analyte	Units	Criteria		
Thallium - Dissolved	mg/L	-		< 0.000100
Uranium - Dissolved	mg/L	-		0.138
Zinc - Dissolved	mg/L	-		< 0.0100
Visible Sheen	-	No Visible Sheen	No Visible Sheen	
Phenols	ug/L	-		< 1.0
Phosphorus, Nutrient	mg/L	-		0.0049

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-C-B

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MP-C-B	MP-C-B	MP-C-B	MP-C-B	MP-C-B
			MP-C-B_2024-08-04	MP-C-B_2024-08-11	MP-C-B_2024-08-18	QP-CC3_2024-08-26	MP-C-B_2024-08-26
			WT2422925	BF2400244	BF2400269	BF2400292	BF2400292
			2024-08-04	2024-08-11	2024-08-18	2024-08-26	2024-08-26
			P	P	P	FD	P
Analyte	Units	Criteria					
Conductivity	umhos/cm		555	-	-	-	-
pH, Lab	pH units	6.0 - 9.5	8.50	8.20	8.08	8.05	8.05
Total Suspended Solids	mg/L	30	2.4	1.2	< 1.0	< 1.0	2.2
Total Dissolved Solids	mg/L	-	310	330	342	150	272
Turbidity	NTU	-	2.50	3.31	2.86	0.48	8.98
Ammonia, Total (as N)	mg/L	-	< 0.0050	-	-	-	-
Nitrate	mg/L	-	3.92	-	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	-	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-C-K

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MP-C-K	MP-C-K	MP-C-K	MP-C-K
			MP-C-K_2024-08-04	MP-C-K_2024-08-11	MP-C-K_2024-08-18	MP-C-K_2024-08-26
			WT2422925	BF2400244	BF2400269	BF2400292
			2024-08-04	2024-08-11	2024-08-18	2024-08-26
			P	P	P	P
Analyte	Units	Criteria				
Conductivity	umhos/cm		786	-	-	-
pH, Lab	pH units	6.0 - 9.5	8.32	8.06	8.01	7.97
Total Suspended Solids	mg/L	30	1.3	< 1.0	< 1.0	< 1.0
Total Dissolved Solids	mg/L	-	483	524	502	726
Turbidity	NTU	-	0.28	0.55	0.53	0.81
Ammonia, Total (as N)	mg/L	-	0.490	-	-	-
Nitrate	mg/L	-	1.21	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-C-H

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MP-C-H	MP-C-H	MP-C-H	MP-C-H	MP-C-H
			MP-C-H_2024-08-04	MP-C-H_2024-08-11	MP-C-H_2024-08-18	QP-CC3_2024-08-18	MP-C-H_2024-08-26
			WT2422925	BF2400244	BF2400269	BF2400269	BF2400292
			2024-08-04	2024-08-11	2024-08-18	2024-08-18	2024-08-26
			P	P	P	FD	P
Analyte	Units	Criteria					
Conductivity	umhos/cm		282	-	-	-	-
pH, Lab	pH units	6.0 - 9.5	8.38	8.21	8.03	8.08	7.93
Total Suspended Solids	mg/L	30	< 1.0	< 1.0	< 1.0	< 1.0	< 1.2
Total Dissolved Solids	mg/L	-	144	185	188	190	160
Turbidity	NTU	-	0.14	0.16	0.27	0.15	0.50
Ammonia, Total (as N)	mg/L	-	< 0.0050	-	-	-	-
Nitrate	mg/L	-	0.065	-	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	-	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-C-J

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MP-C-J	MP-C-J	MP-C-J	MP-C-J	MP-C-J
			MP-C-J_2024-08-04	QP-CC7_2024-08-04	MP-C-J_2024-08-11	MP-C-J_2024-08-18	MP-C-J_2024-08-26
			WT2422925	WT2422925	BF2400244	BF2400269	BF2400292
			2024-08-04	2024-08-04	2024-08-11	2024-08-18	2024-08-26
			P	FD	P	P	P
Analyte	Units	Criteria					
Conductivity	umhos/cm		423	423	-	-	-
pH, Lab	pH units	6.0 - 9.5	8.35	8.24	7.96	7.89	7.98
Total Suspended Solids	mg/L	30	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Dissolved Solids	mg/L	-	217	210	244	240	219
Turbidity	NTU	-	0.14	0.16	0.26	0.46	0.51
Ammonia, Total (as N)	mg/L	-	0.0713	0.0131	-	-	-
Nitrate	mg/L	-	0.065	0.065	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	< 5.0	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-Q1-01

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MP-Q1-01	MP-Q1-01	MP-Q1-01
			MP-Q1-01_2024-08-04	MP-Q1-01_2024-08-11	MP-Q1-01_2024-08-26
			WT2422925	BF2400244	BF2400292
			2024-08-05	2024-08-11	2024-08-26
			P	P	P
Analyte	Units	Criteria			
Conductivity	umhos/cm		282	-	-
pH, Lab	pH units	6.0 - 9.5	8.34	8.02	7.87
Total Suspended Solids	mg/L	30	1.4	< 1.0	< 1.0
Total Dissolved Solids	mg/L	-	149	124	102
Turbidity	NTU	-	1.07	2.61	5.37
Ammonia, Total (as N)	mg/L	-	0.0413	-	-
Nitrate	mg/L	-	0.363	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen
Mean Mortality to Daphnia magna	-	Not Acutely Toxic	Not Acutely Toxic	-	-
Mean Mortality to Rainbow Trout	-	Not Acutely Toxic	Not Acutely Toxic	-	-

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-Q1-02

			Location Name	MP-Q1-02	MP-Q1-02	MP-Q1-02	MP-Q1-02	MP-Q1-02
			Field Sample ID	MP-Q1-02_2024-08-04	MP-Q1-02_2024-08-11	QP-CC3_2024-08-11	MP-Q1-02_2024-08-18	MP-Q1-02_2024-08-26
			ALS Laboratory Work Order	WT2422925	BF2400244	BF2400244	BF2400269	BF2400292
			Sample Date	2024-08-04	2024-08-11	2024-08-11	2024-08-18	2024-08-26
			Sample Type	P	P	FD	P	P
Analyte	Units	Criteria						
Conductivity	umhos/cm		527	-	-	-	-	-
pH, Lab	pH units	6.0 - 9.5	8.32	8.04	8.07	7.91	7.89	
Total Suspended Solids	mg/L	30	2.1	< 1.0	< 1.0	< 1.0	1.2	
Total Dissolved Solids	mg/L	-	303	364	353	322	251	
Turbidity	NTU	-	1.54	1.22	1.24	0.61	3.18	
Ammonia, Total (as N)	mg/L	-	0.164	-	-	-	-	
Nitrate	mg/L	-	17.5	-	-	-	-	
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-	-	
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	-	No Visible Sheen	No Visible Sheen	

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-01

			Location Name	MS-01
			Field Sample ID	MS-01_2024-08-06
			ALS Laboratory Work Order	WT2422480
			Sample Date	2024-08-06
			Sample Type	P
Analyte	Units	Criteria		
pH, Lab	pH units	6.0 - 9.5		8.41
Total Suspended Solids	mg/L	35		1.2
Total Dissolved Solids	mg/L	-		2530
Turbidity	NTU	-		0.86
Alkalinity, Total	mg/L	-		249
Ammonia, Total (as N)	mg/L	4.0		0.0495
Total Kjeldahl Nitrogen	mg/L	-		< 0.050
Fecal Coliforms	CFU/100mL	1000		< 1
BOD	mg/L	30		< 2.0
Oil and Grease, Total	mg/L	-		< 5.0
Phosphorus, Nutrient	mg/L	4.0		0.344

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-01B

			Location Name	MS-01B
			Field Sample ID	MS-01B_2024-08-06
			ALS Laboratory Work Order	WT2422480
			Sample Date	2024-08-06
			Sample Type	P
Analyte		Units	Criteria	
pH, Lab	pH units	6.0 - 9.5		8.20
Total Suspended Solids	mg/L	35		2.6
Total Dissolved Solids	mg/L	-		578
Turbidity	NTU	-		0.66
Alkalinity, Total	mg/L	-		222
Ammonia, Total (as N)	mg/L	4.0		0.0483
Total Kjeldahl Nitrogen	mg/L	-		1.26
Fecal Coliforms	CFU/100mL	1000		3
BOD	mg/L	30		< 2.0
Oil and Grease, Total	mg/L	-		< 5.0
Phosphorus, Nutrient	mg/L	4.0		0.324

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-03B

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-03B
			MS-03B_2024-08-25
			BF2400287
			2024-08-25
			P
Analyte	Units	Criteria	
pH, Lab	pH units	6.0 - 9.5	8.00
Total Suspended Solids	mg/L	-	2.8
Total Dissolved Solids	mg/L	-	178
Turbidity	NTU	-	6.13
Lead - Total	mg/L	0.0010	< 0.000500
Oil and Grease, Total	mg/L	15	< 5.0
Visible Sheen	None	No Visible Sheen	No Visible Sheen
Benzene	ug/L	370	< 0.50
Ethylbenzene	ug/L	90	< 0.50
Toluene	ug/L	2.0	< 0.50
F1-BTEX	ug/L	-	< 25
F1 (C6-C10)	ug/L	-	< 25
F2 (C10-C16)	ug/L	-	< 100
F3 (C16-C34)	ug/L	-	< 250
F4 (C34-C50)	ug/L	-	< 250
Total Petroleum Hydrocarbons (C6-C50)	ug/L	-	< 370

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



**Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-08**

			Location Name
			MS-08
			Field Sample ID
			MS-08_2024-08-06
			ALS Laboratory Work Order
			BF2400227
			Sample Date
			2024-08-06
			Sample Type
			P
Analyte	Units	Criteria	
Hardness	mg/L	-	352
Conductivity	umhos/cm	-	697
pH, Lab	pH units	6.0 - 9.5	7.32
Total Suspended Solids	mg/L	15	1.7
Total Dissolved Solids	mg/L	-	491
Turbidity	NTU	-	3.98
Alkalinity, Total	mg/L	-	21.3
Ammonia, Total (as N)	mg/L	-	0.569
Chloride	mg/L	-	5.45
Fluoride	mg/L	-	0.078
Nitrate	mg/L	-	10.4
Total Kjeldahl Nitrogen	mg/L	-	1.05
Sulfate	mg/L	-	278
Dissolved Organic Carbon	mg/L	-	1.52
Total Organic Carbon	mg/L	-	1.11
Aluminum - Total	mg/L	-	0.0325
Antimony - Total	mg/L	-	< 0.00010
Arsenic - Total	mg/L	0.50	< 0.00010
Barium - Total	mg/L	-	0.0134
Cadmium - Total	mg/L	-	0.0000539
Calcium - Total	mg/L	-	24.2
Chromium - Total	mg/L	-	< 0.00050
Cobalt - Total	mg/L	-	0.0173
Copper - Total	mg/L	0.30	0.00189
Iron - Total	mg/L	-	0.380
Lead - Total	mg/L	0.20	< 0.000050
Lithium - Total	mg/L	-	0.0078
Magnesium - Total	mg/L	-	71.1
Manganese - Total	mg/L	-	1.47
Mercury - Total	mg/L	-	< 0.0000050
Molybdenum - Total	mg/L	-	0.00436
Nickel - Total	mg/L	0.50	0.0276
Phosphorus, Total	mg/L	-	< 0.050
Potassium - Total	mg/L	-	4.54
Selenium - Total	mg/L	-	0.00408
Sodium - Total	mg/L	-	2.17
Strontium - Total	mg/L	-	0.0385
Thallium - Total	mg/L	-	0.000050
Tin - Total	mg/L	-	< 0.00010
Titanium - Total	mg/L	-	< 0.00150
Uranium - Total	mg/L	-	0.000471
Vanadium - Total	mg/L	-	0.00064
Zinc - Total	mg/L	0.50	< 0.0030
Aluminum - Dissolved	mg/L	-	0.0036
Arsenic - Dissolved	mg/L	-	< 0.00010
Cadmium - Dissolved	mg/L	-	0.0000465
Calcium - Dissolved	mg/L	-	23.7
Copper - Dissolved	mg/L	-	0.00055
Iron - Dissolved	mg/L	-	< 0.010
Lead - Dissolved	mg/L	-	< 0.000050
Magnesium - Dissolved	mg/L	-	71.1
Manganese - Dissolved	mg/L	-	1.44
Mercury - Dissolved	mg/L	-	< 0.0000050
Molybdenum - Dissolved	mg/L	-	0.00411
Nickel - Dissolved	mg/L	-	0.0262
Potassium - Dissolved	mg/L	-	4.60
Selenium - Dissolved	mg/L	-	0.00449
Sodium - Dissolved	mg/L	-	2.18

Notes:

Highlight indicate result exceeded applicable criteria.

Half value used in monthly average when value is less than detection limit.

pH criteria is a range;6.0-9.5.

Sample Type:

P-Permitted

FD-Field Duplicate

FB-Field Blank

TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-08

			Location Name	MS-08
			Field Sample ID	MS-08_2024-08-06
			ALS Laboratory Work Order	BF2400227
			Sample Date	2024-08-06
			Sample Type	P
Analyte	Units	Criteria		
Thallium - Dissolved	mg/L	-		0.000049
Uranium - Dissolved	mg/L	-		0.000306
Zinc - Dissolved	mg/L	-		0.0020
Visible Sheen	-	No Visible Sheen	No Visible Sheen	
Mean Mortality to Daphnia magna	-	Not Acutely Toxic	Not Acutely Toxic	
Mean Mortality to Rainbow Trout	-	Not Acutely Toxic	Not Acutely Toxic	
Phosphorus, Nutrient	mg/L			< 0.0040

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



**Table 2 : Water Quality Results for Water Licence
Monitoring Location - KM105-SWMP-SEEP-04**

Location Name			KM105-SWMP-SEEP-04
Field Sample ID			KM105-SWMP-SEEP-04_2024-08-14
ALS Laboratory Sample ID			BF2400257-001
Sample Date & Time			2024-08-14
Sample Type			P
Analyte	Units	Criteria	
pH, Lab	pH units	6.0 - 9.5	7.93
Total Suspended Solids	mg/L	15	3.7
Conductivity, Lab	umhos/cm	-	712
Total Kjeldahl Nitrogen	mg/L	-	0.644
Nitrate	mg/L	-	7.52
Phosphorus, Nutrient	mg/L	-	< 0.0020
Total Alkalinity	mg/L	-	88.9
Sulfate	mg/L	-	192
Fluoride	mg/L	-	0.114
Chloride	mg/L	-	33.4
Ammonia, Total	mg/L	-	0.180
Ammonia, Unionized calculated from field temp etc.	mg/L	-	0.0016
Aluminum - Total	mg/L	-	0.292
Antimony - Total	mg/L	-	< 0.00010
Arsenic - Total	mg/L	0.50	0.00011
Barium - Total	mg/L	-	0.0276
Beryllium - Total	mg/L	-	< 0.000020
Bismuth - Total	mg/L	-	< 0.000050
Boron - Total	mg/L	-	0.023
Cadmium - Total	mg/L	-	0.000494
Calcium - Total	mg/L	-	55.7
Cesium - Total	mg/L	-	0.000033
Chromium - Total	mg/L	-	0.00109
Cobalt - Total	mg/L	-	0.00558
Copper - Total	mg/L	0.30	0.00284
Iron - Total	mg/L	-	0.490
Lead - Total	mg/L	0.20	0.000287
Lithium - Total	mg/L	-	0.0117
Magnesium - Total	mg/L	-	49.5
Manganese - Total	mg/L	-	1.84
Molybdenum - Total	mg/L	-	0.00977
Nickel - Total	mg/L	0.50	0.00421
Phosphorus - Total	mg/L	-	< 0.050
Potassium - Total	mg/L	-	7.60
Rubidium - Total	mg/L	-	0.00800
Selenium - Total	mg/L	-	0.000853
Silicon - Total	mg/L	-	2.47
Silver - Total	mg/L	-	< 0.000010
Sodium - Total	mg/L	-	8.42
Strontium - Total	mg/L	-	0.184
Sulfur - Total	mg/L	-	68.7
Tellurium - Total	mg/L	-	< 0.00020
Thallium - Total	mg/L	-	0.000028
Thorium - Total	mg/L	-	0.00010
Tin - Total	mg/L	-	< 0.00010
Titanium - Total	mg/L	-	0.0127
Tungsten - Total	mg/L	-	0.00016
Uranium - Total	mg/L	-	0.0140
Vanadium - Total	mg/L	-	0.00072
Zinc - Total	mg/L	0.50	0.0031
Zirconium - Total	mg/L	-	0.00025
Total Dissolved Solids	mg/L	-	480
Mercury, Total	mg/L	-	< 0.0000050
Mercury, Dissolved	mg/L	-	< 0.0000050
Aluminum - Dissolved	mg/L	-	0.0042
Antimony - Dissolved	mg/L	-	< 0.00010
Arsenic - Dissolved	mg/L	-	< 0.00010
Barium - Dissolved	mg/L	-	0.0261
Beryllium - Dissolved	mg/L	-	< 0.000020
Bismuth - Dissolved	mg/L	-	< 0.000050
Boron - Dissolved	mg/L	-	0.022

Notes:

Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.

Sample Type:

P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank

			Location Name
			KM105-SWMP-SEEP-04
			Field Sample ID
			04_2024-08-14
			ALS Laboratory Sample ID
			BF2400257-001
			Sample Date & Time
			2024-08-14
			Sample Type
			P
Analyte	Units	Criteria	
Cadmium - Dissolved	mg/L	-	0.000496
Calcium - Dissolved	mg/L	-	56.4
Cesium - Dissolved	mg/L	-	< 0.000010
Chromium - Dissolved	mg/L	-	< 0.00050
Cobalt - Dissolved	mg/L	-	0.00506
Copper - Dissolved	mg/L	-	0.00218
Iron - Dissolved	mg/L	-	< 0.010
Lead - Dissolved	mg/L	-	< 0.000050
Lithium - Dissolved	mg/L	-	0.0117
Manganese - Dissolved	mg/L	-	1.73
Magnesium - Dissolved	mg/L	-	47.3
Molybdenum - Dissolved	mg/L	-	0.00981
Nickel - Dissolved	mg/L	-	0.00344
Phosphorus, Dissolved	mg/L	-	< 0.050
Potassium - Dissolved	mg/L	-	7.37
Rubidium - Dissolved	mg/L	-	0.00710
Selenium - Dissolved	mg/L	-	0.000988
Silver - Dissolved	mg/L	-	< 0.000010
Silicon - Dissolved	mg/L	-	1.98
Sodium - Dissolved	mg/L	-	8.04
Strontium - Dissolved	mg/L	-	0.185
Sulfur - Dissolved	mg/L	-	68.0
Tellurium - Dissolved	mg/L	-	< 0.00020
Thallium - Dissolved	mg/L	-	0.000023
Thorium - Dissolved	mg/L	-	< 0.00010
Tin - Dissolved	mg/L	-	< 0.00010
Titanium - Dissolved	mg/L	-	< 0.00030
Tungsten - Dissolved	mg/L	-	0.00015
Uranium - Dissolved	mg/L	-	0.0135
Vanadium - Dissolved	mg/L	-	< 0.00050
Zirconium - Dissolved	mg/L	-	< 0.00030
Zinc - Dissolved	mg/L	-	0.0018
Visible Sheen	-	No Visible Sheen	No Visible Sheen
Mean Mortality to Daphnia magna	-	Not Acutely Toxic	Not Acutely Toxic
Mean Mortality to Rainbow Trout	-	Not Acutely Toxic	Not Acutely Toxic
Radium-226	Bq/L	-	0.0385

Notes:

Highlight indicate result exceeded applicable criteria.

Half value used in monthly average when value is less than detection limit.

pH criteria is a range;6.0-9.5.

Sample Type:

P-Permitted

FD-Field Duplicate

FB-Field Blank

TB-Trip Blank



**Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-MRY-09**

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-MRY-09	MS-MRY-09	MS-MRY-09	MS-MRY-09	MS-MRY-09
			MS-MRY-09_2024-08-05	MS-MRY-09_2024-08-13	MS-MRY-09_2024-08-20	MS-MRY-09_2024-08-20	MS-MRY-09_2024-08-26
			BF2400228	BF2400254	BF2400274	BF2400274	BF2400291
			2024-08-05	2024-08-13	2024-08-20	2024-08-20	2024-08-26
			P	P	P	FB	P
Analyte	Units	Criteria					
Hardness	mg/L		-	71.6	-	-	-
pH, Lab	pH units	6.0 - 9.5	8.05	8.08	7.98	6.70	8.06
Total Suspended Solids	mg/L	15	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Dissolved Solids	mg/L	-	82	100	100	22	110
Turbidity	NTU	-	1.49	0.41	0.31	< 0.10	0.41
Alkalinity, Total	mg/L	-	-	60.9	-	-	-
Ammonia, Total (as N)	mg/L	-	-	< 0.0050	-	-	-
Chloride	mg/L	-	-	6.70	-	-	-
Fluoride	mg/L	-	-	< 0.020	-	-	-
Nitrate	mg/L	-	-	0.070	-	-	-
Total Kjeldahl Nitrogen	mg/L	-	-	0.064	-	-	-
Sulfate	mg/L	-	-	2.40	-	-	-
Dissolved Organic Carbon	mg/L	-	-	2.11	-	-	-
Total Organic Carbon	mg/L	-	-	2.66	-	-	-
Aluminum - Total	mg/L	-	-	0.0149	-	-	-
Antimony - Total	mg/L	-	-	< 0.00010	-	-	-
Arsenic - Total	mg/L	0.50	-	< 0.00010	-	-	-
Barium - Total	mg/L	-	-	0.00998	-	-	-
Cadmium - Total	mg/L	-	-	< 0.0000050	-	-	-
Calcium - Total	mg/L	-	-	13.7	-	-	-
Chromium - Total	mg/L	-	-	< 0.00050	-	-	-
Cobalt - Total	mg/L	-	-	< 0.00010	-	-	-
Copper - Total	mg/L	0.30	-	0.00246	-	-	-
Iron - Total	mg/L	-	-	0.017	-	-	-
Lead - Total	mg/L	0.20	-	< 0.000050	-	-	-
Lithium - Total	mg/L	-	-	< 0.0010	-	-	-
Magnesium - Total	mg/L	-	-	9.08	-	-	-
Manganese - Total	mg/L	-	-	0.00091	-	-	-
Mercury - Total	mg/L	-	-	< 0.0000050	-	-	-
Molybdenum - Total	mg/L	-	-	0.00114	-	-	-
Nickel - Total	mg/L	0.50	-	< 0.00050	-	-	-
Phosphorus, Total	mg/L	-	-	< 0.050	-	-	-
Potassium - Total	mg/L	-	-	2.28	-	-	-
Selenium - Total	mg/L	-	-	0.000064	-	-	-
Sodium - Total	mg/L	-	-	0.653	-	-	-
Strontium - Total	mg/L	-	-	0.0108	-	-	-
Thallium - Total	mg/L	-	-	0.000015	-	-	-
Tin - Total	mg/L	-	-	< 0.00010	-	-	-
Titanium - Total	mg/L	-	-	0.00048	-	-	-

Notes:

Highlight indicate result exceeded applicable criteria.

Half value used in monthly average when value is less than detection limit.

pH criteria is a range;6.0-9.5.

Sample Type:

P-Permitted

FD-Field Duplicate

FB-Field Blank

TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-MRY-09

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-MRY-09	MS-MRY-09	MS-MRY-09	MS-MRY-09	MS-MRY-09
			MS-MRY-09_2024-08-05	MS-MRY-09_2024-08-13	MS-MRY-09_2024-08-20	MS-MRY-09_2024-08-20	MS-MRY-09_2024-08-26
			BF2400228	BF2400254	BF2400274	BF2400274	BF2400291
			2024-08-05	2024-08-13	2024-08-20	2024-08-20	2024-08-26
			P	P	P	FB	P
Analyte	Units	Criteria					
Uranium - Total	mg/L	-	-	0.00307	-	-	-
Vanadium - Total	mg/L	-	-	< 0.00050	-	-	-
Zinc - Total	mg/L	0.50	-	< 0.0030	-	-	-
Aluminum - Dissolved	mg/L	-	-	0.0061	-	-	-
Arsenic - Dissolved	mg/L	-	-	< 0.00010	-	-	-
Cadmium - Dissolved	mg/L	-	-	< 0.0000050	-	-	-
Calcium - Dissolved	mg/L	-	-	13.8	-	-	-
Copper - Dissolved	mg/L	-	-	0.00239	-	-	-
Iron - Dissolved	mg/L	-	-	< 0.010	-	-	-
Lead - Dissolved	mg/L	-	-	< 0.000050	-	-	-
Magnesium - Dissolved	mg/L	-	-	9.08	-	-	-
Manganese - Dissolved	mg/L	-	-	0.00065	-	-	-
Mercury - Dissolved	mg/L	-	-	< 0.0000050	-	-	-
Molybdenum - Dissolved	mg/L	-	-	0.00109	-	-	-
Nickel - Dissolved	mg/L	-	-	< 0.00050	-	-	-
Potassium - Dissolved	mg/L	-	-	2.48	-	-	-
Selenium - Dissolved	mg/L	-	-	0.000075	-	-	-
Sodium - Dissolved	mg/L	-	-	0.666	-	-	-
Thallium - Dissolved	mg/L	-	-	0.000013	-	-	-
Uranium - Dissolved	mg/L	-	-	0.00324	-	-	-
Zinc - Dissolved	mg/L	-	-	< 0.0010	-	-	-
Visible Sheen	None	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	-	No Visible Sheen
Phenols	ug/L	-	-	< 1.0	-	-	-
Phosphorus, Nutrient	mg/L	-	-	0.0029	-	-	-

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-MRY-13A

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-MRY-13A	MS-MRY-13A
			MS-MRY-13A_2024-08-04	QD-CC8_2024-08-04
			BF2400225	BF2400225
			2024-08-04	2024-08-04
			P	FD
Analyte	Units	Criteria		
Hardness	mg/L	-	377	375
Conductivity	umhos/cm	-	863	868
pH, Lab	pH units	6.0 - 9.5	7.94	8.00
Total Suspended Solids	mg/L	15	< 1.0	< 1.0
Total Dissolved Solids	mg/L	-	495	498
Turbidity	NTU	-	1.48	0.72
Alkalinity, Total	mg/L	-	186	187
Ammonia, Total (as N)	mg/L	-	0.0213	0.0206
Chloride	mg/L	-	87.1	88.2
Fluoride	mg/L	-	0.025	0.025
Nitrate	mg/L	-	2.08	2.12
Total Kjeldahl Nitrogen	mg/L	-	0.501	0.508
Sulfate	mg/L	-	109	110
Dissolved Organic Carbon	mg/L	-	12.0	7.30
Total Organic Carbon	mg/L	-	5.66	5.70
Aluminum - Total	mg/L	-	0.0043	0.0092
Antimony - Total	mg/L	-	0.00013	0.00012
Arsenic - Total	mg/L	0.50	0.00021	0.00017
Barium - Total	mg/L	-	0.0468	0.0454
Cadmium - Total	mg/L	-	0.0000155	0.0000137
Calcium - Total	mg/L	-	66.3	67.4
Chromium - Total	mg/L	-	0.00062	0.00067
Cobalt - Total	mg/L	-	0.00020	0.00020
Copper - Total	mg/L	0.30	0.00142	0.00141
Iron - Total	mg/L	-	< 0.010	0.015
Lead - Total	mg/L	0.20	< 0.000050	< 0.000050
Lithium - Total	mg/L	-	0.0310	0.0317
Magnesium - Total	mg/L	-	51.4	50.3
Manganese - Total	mg/L	-	0.00148	0.00204
Mercury - Total	mg/L	-	< 0.0000050	< 0.0000050
Molybdenum -	mg/L	-	0.000555	0.000556
Nickel - Total	mg/L	0.50	0.0115	0.0115
Phosphorus, Total	mg/L	-	< 0.050	< 0.050
Potassium - Total	mg/L	-	4.60	4.50
Selenium - Total	mg/L	-	< 0.000050	< 0.000050
Sodium - Total	mg/L	-	23.0	22.3
Strontium - Total	mg/L	-	0.0603	0.0600
Thallium - Total	mg/L	-	0.000014	0.000014
Tin - Total	mg/L	-	< 0.00010	< 0.00010
Titanium - Total	mg/L	-	< 0.00030	< 0.00060
Uranium - Total	mg/L	-	0.00591	0.00579
Vanadium - Total	mg/L	-	< 0.00050	< 0.00050
Zinc - Total	mg/L	0.50	< 0.0030	< 0.0030
Aluminum - Dissolved	mg/L	-	0.0019	0.0019
Arsenic - Dissolved	mg/L	-	0.00018	0.00018
Cadmium - Dissolved	mg/L	-	0.0000136	0.0000118
Calcium - Dissolved	mg/L	-	67.8	69.3
Copper - Dissolved	mg/L	-	0.00145	0.00145
Iron - Dissolved	mg/L	-	< 0.010	< 0.010
Lead - Dissolved	mg/L	-	< 0.000050	< 0.000050
Magnesium - Dissolved	mg/L	-	51.8	53.8
Manganese - Dissolved	mg/L	-	0.00079	0.00093
Mercury - Dissolved	mg/L	-	< 0.0000050	< 0.0000050
Molybdenum - Dissolved	mg/L	-	0.000582	0.000557
Nickel - Dissolved	mg/L	-	0.0115	0.0116
Potassium - Dissolved	mg/L	-	4.68	4.81
Selenium - Dissolved	mg/L	-	< 0.000050	0.000055
Sodium - Dissolved	mg/L	-	23.0	24.0
Thallium - Dissolved	mg/L	-	0.000014	0.000014
Uranium - Dissolved	mg/L	-	0.00594	0.00592
Zinc - Dissolved	mg/L	-	0.0024	0.0026
Oil and Grease, Total	mg/L	-	< 5.0	< 5.0
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen
Phenols	ug/L	-	< 1.0	< 1.0
F1 (C6-C10)	ug/L	-	< 25	< 25
F2 (C10-C16)	ug/L	-	< 100	< 100
F3 (C16-C34)	ug/L	-	< 250	< 250
F4 (C34-C50)	ug/L	-	< 250	< 250
Total Petroleum Hydrocarbons (C6-C50)	ug/L	-	< 370	< 370
Phosphorus, Nutrient	mg/L	-	0.0183	0.0185

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-MRY-13B

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-MRY-13B	MS-MRY-13B	MS-MRY-13B	MS-MRY-13B
			MS-MRY-13B_2024-08-04	MS-MRY-13B_2024-08-11	MS-MRY-13B_2024-08-19	MS-MRY-13B_2024-08-26
			BF2400225	BF2400247	BF2400270	BF2400291
			2024-08-04	2024-08-11	2024-08-19	2024-08-26
			P	P	P	P
Analyte	Units	Criteria				
Hardness	mg/L	-	323	-	-	-
Conductivity	umhos/cm	-	762	-	-	-
pH, Lab	pH units	6.0 - 9.5	7.89	7.98	8.11	7.97
Total Suspended Solids	mg/L	15	1.3	< 1.3	< 1.0	< 1.0
Total Dissolved Solids	mg/L	-	464	540	674	698
Turbidity	NTU	-	1.42	0.21	0.38	0.17
Alkalinity, Total	mg/L	-	163	-	-	-
Ammonia, Total (as N)	mg/L	-	0.0230	-	-	-
Chloride	mg/L	-	48.4	-	-	-
Fluoride	mg/L	-	0.027	-	-	-
Nitrate	mg/L	-	1.44	-	-	-
Total Kjeldahl Nitrogen	mg/L	-	0.504	-	-	-
Sulfate	mg/L	-	142	-	-	-
Dissolved Organic Carbon	mg/L	-	7.37	-	-	-
Total Organic Carbon	mg/L	-	5.73	-	-	-
Aluminum - Total	mg/L	-	0.0066	-	-	-
Antimony - Total	mg/L	-	< 0.00010	-	-	-
Arsenic - Total	mg/L	0.50	0.00017	-	-	-
Barium - Total	mg/L	-	0.0358	-	-	-
Cadmium - Total	mg/L	-	0.0000145	-	-	-
Calcium - Total	mg/L	-	70.4	-	-	-
Chromium - Total	mg/L	-	0.00093	-	-	-
Cobalt - Total	mg/L	-	0.00024	-	-	-
Copper - Total	mg/L	0.30	0.00168	-	-	-
Iron - Total	mg/L	-	0.018	-	-	-
Lead - Total	mg/L	0.20	< 0.000050	-	-	-
Lithium - Total	mg/L	-	0.0509	-	-	-
Magnesium - Total	mg/L	-	35.8	-	-	-
Manganese - Total	mg/L	-	0.00167	-	-	-
Mercury - Total	mg/L	-	< 0.0000050	-	-	-
Molybdenum - Total	mg/L	-	0.000489	-	-	-
Nickel - Total	mg/L	0.50	0.0102	-	-	-
Phosphorus, Total	mg/L	-	< 0.050	-	-	-
Potassium - Total	mg/L	-	5.38	-	-	-
Selenium - Total	mg/L	-	0.000073	-	-	-
Sodium - Total	mg/L	-	22.6	-	-	-
Strontium - Total	mg/L	-	0.112	-	-	-
Thallium - Total	mg/L	-	< 0.000010	-	-	-
Tin - Total	mg/L	-	< 0.00010	-	-	-
Titanium - Total	mg/L	-	< 0.00030	-	-	-
Uranium - Total	mg/L	-	0.00708	-	-	-
Vanadium - Total	mg/L	-	< 0.00050	-	-	-
Zinc - Total	mg/L	0.50	< 0.0030	-	-	-
Aluminum - Dissolved	mg/L	-	0.0023	-	-	-
Arsenic - Dissolved	mg/L	-	0.00017	-	-	-
Cadmium - Dissolved	mg/L	-	0.0000132	-	-	-
Calcium - Dissolved	mg/L	-	74.2	-	-	-
Copper - Dissolved	mg/L	-	0.00166	-	-	-
Iron - Dissolved	mg/L	-	< 0.010	-	-	-
Lead - Dissolved	mg/L	-	< 0.000050	-	-	-
Magnesium - Dissolved	mg/L	-	35.7	-	-	-
Manganese - Dissolved	mg/L	-	0.00100	-	-	-
Mercury - Dissolved	mg/L	-	< 0.0000050	-	-	-
Molybdenum - Dissolved	mg/L	-	0.000546	-	-	-
Nickel - Dissolved	mg/L	-	0.0102	-	-	-
Potassium - Dissolved	mg/L	-	5.63	-	-	-
Selenium - Dissolved	mg/L	-	0.000077	-	-	-
Sodium - Dissolved	mg/L	-	23.2	-	-	-
Thallium - Dissolved	mg/L	-	< 0.000010	-	-	-
Uranium - Dissolved	mg/L	-	0.00720	-	-	-
Zinc - Dissolved	mg/L	-	< 0.0010	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen
Phenols	ug/L	-	< 1.0	-	-	-
F1 (C6-C10)	ug/L	-	< 25	-	-	-
F2 (C10-C16)	ug/L	-	< 100	-	-	-
F3 (C16-C34)	ug/L	-	< 250	-	-	-
F4 (C34-C50)	ug/L	-	< 250	-	-	-
Total Petroleum Hydrocarbons (C6-C50)	ug/L	-	< 370	-	-	-
Phosphorus, Nutrient	mg/L	-	0.0105	-	-	-

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-C-A

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-C-A	MS-C-A	MS-C-A	MS-C-A	MS-C-A
			MS-C-A_2024-08-05	MS-C-A_2024-08-11	MS-C-A_2024-08-19	MS-C-A_2024-08-25	QD-BF1_2024-08-25
			BF2400228	BF2400247	BF2400270	BF2400291	BF2400291
			2024-08-05	2024-08-11	2024-08-19	2024-08-25	2024-08-25
			P	P	P	P	FB
Analyte	Units	Criteria					
Conductivity	umhos/cm		535	-	-	-	-
pH, Lab	pH units	6.0 - 9.5	7.50	7.81	7.72	7.68	6.67
Total Suspended Solids	mg/L	30	< 1.2	< 1.0	< 1.0	1.2	< 1.0
Total Dissolved Solids	mg/L	-	325	368	383	350	< 18
Turbidity	NTU	-	2.34	0.50	0.34	2.90	< 0.10
Ammonia, Total (as N)	mg/L	-	0.0387	-	-	-	-
Nitrate	mg/L	-	4.84	-	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	-

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-C-B

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-C-B	MS-C-B	MS-C-B	MS-C-B
			MS-C-B_2024-08-05	MS-C-B_2024-08-11	MS-C-B_2024-08-19	MS-C-B_2024-08-25
			BF2400228	BF2400247	BF2400270	BF2400291
			2024-08-05	2024-08-11	2024-08-19	2024-08-25
			P	P	P	P
Analyte	Units	Criteria				
Conductivity	umhos/cm		545	-	-	-
pH, Lab	pH units	6.0 - 9.5	7.49	7.69	7.75	7.56
Total Suspended Solids	mg/L	30	1.0	< 1.0	< 1.0	1.3
Total Dissolved Solids	mg/L	-	330	372	377	360
Turbidity	NTU	-	2.35	0.56	0.33	3.96
Ammonia, Total (as N)	mg/L	-	0.0366	-	-	-
Nitrate	mg/L	-	5.00	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-C-C

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-C-C	MS-C-C	MS-C-C	MS-C-C
			MS-C-C_2024-08-05	MS-C-C_2024-08-11	MS-C-C_2024-08-19	MS-C-C_2024-08-26
			BF2400228	BF2400247	BF2400270	BF2400291
			2024-08-05	2024-08-11	2024-08-19	2024-08-26
			P	P	P	P
Analyte	Units	Criteria				
Conductivity	umhos/cm		791	-	-	-
pH, Lab	pH units	6.0 - 9.5	7.96	8.08	8.14	7.90
Total Suspended Solids	mg/L	30	2.3	1.2	< 1.0	3.2
Total Dissolved Solids	mg/L	-	483	505	531	486
Turbidity	NTU	-	4.29	2.64	2.87	17.4
Ammonia, Total (as N)	mg/L	-	0.0306	-	-	-
Nitrate	mg/L	-	4.79	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-C-D

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-C-D	MS-C-D	MS-C-D	MS-C-D
			MS-C-D_2024-08-05	MS-C-D_2024-08-11	MS-C-D_2024-08-19	MS-C-D_2024-08-26
			BF2400228	BF2400247	BF2400270	BF2400291
			2024-08-05	2024-08-11	2024-08-19	2024-08-26
			P	P	P	P
Analyte	Units	Criteria				
Conductivity	umhos/cm		777	-	-	-
pH, Lab	pH units	6.0 - 9.5	8.16	8.31	8.39	8.11
Total Suspended Solids	mg/L	30	1.9	1.5	< 1.0	13.6
Total Dissolved Solids	mg/L	-	454	482	490	456
Turbidity	NTU	-	8.41	3.93	4.17	23.2
Ammonia, Total (as N)	mg/L	-	0.0119	-	-	-
Nitrate	mg/L	-	3.47	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-C-E

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-C-E	MS-C-E	MS-C-E	MS-C-E	MS-C-E
			MS-C-E_2024-08-04	QD-BF7_2024-08-04	MS-C-E_2024-08-11	MS-C-E_2024-08-19	MS-C-E_2024-08-26
			BF2400225	BF2400225	BF2400247	BF2400270	BF2400291
			2024-08-04	2024-08-04	2024-08-11	2024-08-19	2024-08-26
			P	FD	P	P	P
Analyte	Units	Criteria					
Conductivity	umhos/cm		750	< 1.0	-	-	-
pH, Lab	pH units	6.0 - 9.5	8.01	8.09	8.10	8.16	7.97
Total Suspended Solids	mg/L	30	1.7	1.2	1.0	5.2	< 1.0
Total Dissolved Solids	mg/L	-	450	150	529	600	553
Turbidity	NTU	-	5.28	0.91	1.66	4.73	4.06
Ammonia, Total (as N)	mg/L	-	< 0.0050	< 0.0050	-	-	-
Nitrate	mg/L	-	3.71	< 0.020	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	< 5.0	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-C-F

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-C-F	MS-C-F	MS-C-F	MS-C-F
			MS-C-F_2024-08-04	MS-C-F_2024-08-11	MS-C-F_2024-08-19	MS-C-F_2024-08-25
			BF2400225	BF2400247	BF2400270	BF2400291
			2024-08-04	2024-08-11	2024-08-19	2024-08-25
			P	P	P	P
Analyte	Units	Criteria				
Conductivity	umhos/cm		616	-	-	-
pH, Lab	pH units	6.0 - 9.5	7.69	7.40	7.85	7.74
Total Suspended Solids	mg/L	30	12.9	3.0	1.2	13.8
Total Dissolved Solids	mg/L	-	376	472	500	386
Turbidity	NTU	-	25.4	9.61	4.04	27.0
Ammonia, Total (as N)	mg/L	-	0.319	-	-	-
Nitrate	mg/L	-	5.79	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



**Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-C-G**

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-C-G	MS-C-G	MS-C-G	MS-C-G	MS-C-G	MS-C-G
			MS-C-G_2024-08-04	MS-C-G_2024-08-11	QD-BF1_2024-08-11	MS-C-G_2024-08-19	QD-CC1_2024-08-19	MS-C-G_2024-08-25
			BF2400225	BF2400247	BF2400247	BF2400270	BF2400270	BF2400291
			2024-08-04	2024-08-11	2024-08-11	2024-08-19	2024-08-19	2024-08-25
			P	P	FB	P	FD	P
Analyte	Units	Criteria						
Conductivity	umhos/cm		233	-	-	-	-	-
pH, Lab	pH units	6.0 - 9.5	7.73	7.61	6.62	7.55	7.75	7.76
Total Suspended Solids	mg/L	30	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Dissolved Solids	mg/L	-	119	198	< 21	189	193	130
Turbidity	NTU	-	0.60	< 0.10	< 0.10	0.11	< 0.10	0.20
Ammonia, Total (as N)	mg/L	-	0.0376	-	-	-	-	-
Nitrate	mg/L	-	6.53	-	-	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	-	No Visible Sheen	-	No Visible Sheen

Notes:

Highlight indicate result exceeded applicable criteria.

Half value used in monthly average when value is less than detection limit.

pH criteria is a range;6.0-9.5.

Sample Type:

P-Permitted

FD-Field Duplicate

FB-Field Blank

TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-C-H

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-C-H	MS-C-H	MS-C-H	MS-C-H	MS-C-H
			MS-C-H_2024-08-04	MS-C-H_2024-08-11	QD-CC1_2024-08-11	MS-C-H_2024-08-19	MS-C-H_2024-08-25
			BF2400225	BF2400247	BF2400247	BF2400270	BF2400291
			2024-08-04	2024-08-11	2024-08-11	2024-08-19	2024-08-25
			P	P	FD	P	P
Analyte	Units	Criteria					
Conductivity	umhos/cm		281	-	-	-	-
pH, Lab	pH units	6.0 - 9.5	7.15	8.06	8.14	8.20	8.12
Total Suspended Solids	mg/L	30	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Dissolved Solids	mg/L	-	< 20	158	162	155	148
Turbidity	NTU	-	0.32	0.23	0.20	0.37	0.27
Ammonia, Total (as N)	mg/L	-	0.0103	-	-	-	-
Nitrate	mg/L	-	2.42	-	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	-	No Visible Sheen	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MQ-C-A

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MQ-C-A	MQ-C-A	MQ-C-A	MQ-C-A	MQ-C-A
			MQ-C-A_2024-08-04	MQ-C-A_2024-08-12	MQ-C-A_2024-08-19	MQ-C-A_2024-08-25	QD-BT1_2024-08-25
			BF2400225	BF2400247	BF2400270	BF2400291	BF2400291
			2024-08-04	2024-08-12	2024-08-19	2024-08-25	2024-08-25
			P	P	P	P	TB
Analyte	Units	Criteria					
Conductivity	umhos/cm		289	316	329	-	-
pH, Lab	pH units	6.0 - 9.5	8.02	8.07	7.92	8.05	6.91
Total Suspended Solids	mg/L	30	< 1.0	< 1.0	< 1.2	1.8	< 1.0
Total Dissolved Solids	mg/L	-	136	186	185	169	< 17
Turbidity	NTU	-	1.04	0.35	0.20	0.24	< 0.10
Ammonia, Total (as N)	mg/L	-	< 0.0050	0.0163	< 0.0050	-	-
Nitrate	mg/L	-	< 0.020	< 0.020	< 0.020	-	-
Oil and Grease, Total	mg/L	-	< 5.0	< 5.0	< 5.0	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	-
Mean Mortality to Daphnia magna	-	Not Acutely Toxic	-	-	Not Acutely Toxic	-	-
Mean Mortality to Rainbow Trout	-	Not Acutely Toxic	-	-	Not Acutely Toxic	-	-

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MQ-C-B

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MQ-C-B	MQ-C-B	MQ-C-B	MQ-C-B
			MQ-C-B_2024-08-04	MQ-C-B_2024-08-11	MQ-C-B_2024-08-19	MQ-C-B_2024-08-25
			BF2400225	BF2400247	BF2400270	BF2400291
			2024-08-04	2024-08-11	2024-08-19	2024-08-25
			P	P	P	P
Analyte	Units	Criteria				
Conductivity	umhos/cm		264	-	-	-
pH, Lab	pH units	6.0 - 9.5	8.08	8.17	7.96	8.05
Total Suspended Solids	mg/L	30	< 1.0	< 1.0	< 1.0	< 1.0
Total Dissolved Solids	mg/L	-	140	178	186	166
Turbidity	NTU	-	2.37	1.55	2.09	1.83
Ammonia, Total (as N)	mg/L	-	< 0.0050	-	-	-
Nitrate	mg/L	-	0.034	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MQ-C-D

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MQ-C-D	MQ-C-D	MQ-C-D	MQ-C-D
			MQ-C-D_2024-08-04	MQ-C-D_2024-08-11	MQ-C-D_2024-08-19	MQ-C-D_2024-08-25
			BF2400225	BF2400247	BF2400270	BF2400291
			2024-08-04	2024-08-11	2024-08-19	2024-08-25
			P	P	P	P
Analyte	Units	Criteria				
Conductivity	umhos/cm		280	-	-	-
pH, Lab	pH units	6.0 - 9.5	8.12	8.05	8.05	7.93
Total Suspended Solids	mg/L	30	3.3	4.8	2.2	3.2
Total Dissolved Solids	mg/L	-	135	167	182	172
Turbidity	NTU	-	5.15	3.16	4.04	5.47
Ammonia, Total (as N)	mg/L	-	< 0.0050	-	-	-
Nitrate	mg/L	-	0.280	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank

Table 3.1: Flow and Volume Measurements - Part I Item 11 - August 2024

DATE	Camp Lake Freshwater for Domestic Use - Daily Water MS-MRY-1 (m³)	Camp Lake Freshwater for Industrial Use - Daily Water MS-MRY-1 (m³)	Treated Sewage Effluent from MS-01 to Discharge Location #1 (m³)	Treated Sewage Effluent from MS-01B to Discharge Location #1 (m³)	Sewage Sludge Removed from Mine Site WWTPs to Incinerator or Disposal Offsite by Backhaul (m³)	Sewage Sludge/Off- Spec Effluent Removed from Mine Site WWTPs to PWSP at Mine Site (m³)	Sewage Sludge Removed from Lift Stations to PWSP at Mine Site (m³)	Km 32 Lake Milne Port Camp Daily Water Use for Domestic Purposes MP- MRY-3 (m³)	Km 32 Lake Milne Port Camp Daily Water Use for Industrial Purposes MP- MRY-3 (m³)	Treated Sewage Effluent from MP-01 to Milne Inlet (m³)	Treated Sewage Effluent from MP-01B to Milne Inlet (m³)	Sewage Sludge Removed from Milne Port WWTPs to Incinerator or Disposal Offsite by Backhaul (m³)	Sewage Sludge Removed from Lift Stations to PWSP at Milne Port (m³)	Water Use for Dust Suppression from Authorized Sources (m³)
1-Aug-24	104.8	29.2	32.0	115.5	1.2	0.0	0.0	66.1	0.0	24.0	35.5	0.2	0.0	0.0
2-Aug-24	114.5	18.2	30.0	122.8	1.6	0.0	0.0	60.7	0.0	24.0	44.0	0.3	0.0	0.0
3-Aug-24	111.7	23.3	17.0	131.7	0.7	0.0	0.0	62.4	0.0	24.0	38.2	0.2	0.0	242.2
4-Aug-24	126.9	23.0	27.0	128.6	1.8	0.0	0.0	71.3	0.0	24.0	40.1	0.0	0.0	696.4
5-Aug-24	114.5	29.4	26.0	141.8	1.3	0.0	0.0	65.4	1.0	24.0	44.7	0.3	0.0	878.1
6-Aug-24	123.1	11.1	25.0	132.3	1.1	0.0	0.0	50.2	0.0	24.0	39.5	0.3	0.0	878.1
7-Aug-24	133.6	27.5	25.0	124.3	1.8	0.0	0.0	56.9	0.0	24.0	44.0	0.2	0.0	787.3
8-Aug-24	116.5	26.8	21.0	147.3	1.5	1.0	1.0	39.3	0.0	24.0	42.8	0.3	0.0	1150.6
9-Aug-24	122.1	20.7	28.0	139.6	1.2	0.0	0.0	85.5	0.0	24.0	39.0	0.3	0.0	817.6
10-Aug-24	120.3	20.2	30.0	130.0	1.0	0.0	0.0	47.1	0.0	24.0	41.6	0.3	0.0	1211.2
11-Aug-24	123.7	16.9	32.0	126.6	0.4	0.0	3.0	84.1	0.0	24.0	38.5	0.2	0.0	1271.8
12-Aug-24	104.8	28.0	33.0	124.6	1.2	0.0	0.0	65.4	0.0	24.0	47.6	0.3	0.0	635.9
13-Aug-24	116.8	25.8	32.0	127.3	1.4	3.0	0.0	62.7	2.0	21.0	34.9	0.3	0.0	151.4
14-Aug-24	129.3	17.7	29.0	129.2	0.2	0.0	0.0	67.2	0.0	21.0	50.6	0.3	0.0	484.5
15-Aug-24	120.2	19.6	31.0	128.0	1.3	0.0	0.0	73.5	0.0	20.0	50.5	0.3	0.0	454.2
16-Aug-24	114.9	40.4	28.0	115.4	1.3	0.0	0.0	60.5	0.0	24.0	42.9	0.3	0.0	878.1
17-Aug-24	122.6	29.1	25.0	127.8	0.4	0.0	0.0	48.0	0.0	24.0	47.2	0.1	0.0	484.5
18-Aug-24	103.3	41.3	25.0	125.6	1.2	0.0	0.0	72.5	0.0	24.0	47.7	0.1	5.7	514.8
19-Aug-24	117.7	2.2	25.0	123.6	0.9	0.0	0.0	63.8	5.0	24.0	45.5	0.1	0.0	575.3
20-Aug-24	124.0	23.3	25.0	116.3	1.4	0.0	0.0	61.7	0.0	19.0	36.4	0.1	0.0	181.7
21-Aug-24	132.0	18.3	23.0	127.8	0.9	0.0	0.0	46.3	0.0	20.0	62.2	0.1	0.0	0.0
22-Aug-24	118.3	9.2	26.0	133.2	1.3	0.0	0.0	59.3	0.0	20.0	54.8	0.0	0.0	0.0
23-Aug-24	133.9	1.3	28.0	133.1	0.9	0.0	0.0	74.8	0.0	20.0	38.4	0.1	0.0	0.0
24-Aug-24	109.5	35.0	25.0	125.1	0.9	0.0	0.0	79.7	0.0	30.0	47.6	0.1	0.0	0.0
25-Aug-24	122.0	14.5	32.0	114.7	1.4	0.0	0.0	65.2	0.0	32.0	39.6	0.0	0.0	0.0
26-Aug-24	116.0	23.1	28.0	120.8	1.5	0.0	0.0	62.7	2.0	21.0	45.2	0.1	0.0	272.5
27-Aug-24	136.0	29.1	27.0	116.9	0.6	0.0	0.0	31.9	0.0	24.0	29.4	0.1	0.0	1059.8
28-Aug-24	115.2	20.8	28.0	121.8	0.9	0.0	0.0	97.8	0.0	24.0	44.8	0.0	0.0	484.5
29-Aug-24	142.1	4.2	29.0	128.7	0.5	0.0	0.0	85.3	0.0	18.0	48.5	0.1	0.0	726.7
30-Aug-24	138.0	12.0	27.0	128.1	0.5	0.0	0.0	77.2	0.0	27.0	36.1	0.3	0.0	757.0
31-Aug-24	125.2	6.5	22.0	118.8	0.4	0.0	0.0	65.0	0.0	29.0	40.6	0.3	0.0	666.2
Total	3,753.6	647.7	841.0	3,927.3	32.4	4.0	4.0	2,009.6	10.0	730.0	1,338.4	5.3	5.7	16,260.4

Notes:

WWTP - Waste Water Treatment Plant

PWSP - Polishing Waste Stabilization Pond

Table 3.1: Flow

DATE	Effluent Discharge from Mine Site Waste Rock Stockpile Pond (MS-08) (m ³)	Effluent Discharge from KM105 Surface Water Management Pond (MS-11) (m ³)	Effluent Discharge from Milne Port Ore Stockpile Sedimentation Pond (West) to Milne Inlet (MP-06) (m ³)	Effluent Discharge from Mine Site Bulk Fuel Storage Facility Stormwater (MS-03B) (m ³)
1-Aug-24	2,134.0	6,079.1	0.0	0.0
2-Aug-24	965.0	12,201.7	0.0	0.0
3-Aug-24	1,401.0	10,167.7	0.0	0.0
4-Aug-24	1,421.0	6,395.0	0.0	0.0
5-Aug-24	2,189.0	4,830.7	0.0	0.0
6-Aug-24	3,477.0	4,055.5	0.0	0.0
7-Aug-24	2,707.0	3,610.3	0.0	0.0
8-Aug-24	1,344.0	3,352.6	0.0	0.0
9-Aug-24	1,786.0	3,041.3	0.0	0.0
10-Aug-24	2,396.0	2,515.6	0.0	0.0
11-Aug-24	1,493.0	1,645.8	0.0	0.0
12-Aug-24	2,168.0	1,211.1	0.0	0.0
13-Aug-24	2,111.0	1,213.9	0.0	0.0
14-Aug-24	1,572.0	1,322.9	0.0	0.0
15-Aug-24	2,151.0	1,698.0	622.0	0.0
16-Aug-24	2,747.0	1,930.1	874.5	0.0
17-Aug-24	1,502.0	1,513.8	923.1	0.0
18-Aug-24	1,758.0	1,143.4	894.7	0.0
19-Aug-24	2,130.0	835.2	547.9	0.0
20-Aug-24	1,422.0	660.9	0.0	0.0
21-Aug-24	1,291.0	661.1	0.0	0.0
22-Aug-24	552.0	2,326.6	0.0	0.0
23-Aug-24	1,146.0	6,181.5	88.8	0.0
24-Aug-24	691.0	8,485.2	0.0	0.0
25-Aug-24	869.0	8,253.5	1387.0	321.0
26-Aug-24	1,691.0	8,219.8	2324.1	562.0
27-Aug-24	1,979.0	6,224.5	410.8	797.0
28-Aug-24	2,511.0	5,216.8	0.0	63.0
29-Aug-24	0.0	4,389.8	847.3	0.0
30-Aug-24	0.0	3,973.1	2694.1	0.0
31-Aug-24	0.0	3,527.0	0.0	0.0
Total	49,604.0	126,883.4	11,614.3	1,743.0

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