

MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY

AUTHORIZATION TO DISCHARGE UNDER THE MONTANA GROUND WATER POLLUTION CONTROL SYSTEM

In compliance with Montana Water Quality Act, Title 75, Chapter 5, Montana Code Annotated (MCA) and the Administrative Rules of Montana (ARM) 17.30 Subchapter 5, Subchapter 7, and Subchapter 10 *et seq.*,

Winston Gold Corporation

is authorized to discharge from,

Winston Mine

SE Section 13, Township 08 North, Range 01 West
Latitude: 46.44705, Longitude: -111.66520
Broadwater County

to receiving **Class I ground water** in accordance with discharge point(s), effluent limitations, monitoring requirements, special conditions, and other conditions set forth herein. Authorization for discharge is limited to those outfalls specifically listed in the permit. The numeric effluent limitations, water quality standards, and special conditions specified herein support the protection of the receiving water.

This permit shall become effective: **January 01, 2022.**

This permit and the authorization to discharge shall expire at midnight, **December 31, 2026.**

FOR THE MONTANA DEPARTMENT OF
ENVIRONMENTAL QUALITY

|S| Jon Kenning

Jon Kenning, Chief
Water Protection Bureau

Issue Date: November 23, 2021

TABLE OF CONTENTS

I. EFFLUENT LIMITATIONS, MONITORING REQUIREMENTS & OTHER CONDITIONS..... 3

- A. DESCRIPTION OF DISCHARGE POINTS AND MIXING ZONES 3
- B. EFFLUENT LIMITATIONS AND PROHIBITIONS..... 4
- C. MONITORING AND REPORTING REQUIREMENTS 4
- D. SPECIAL CONDITIONS 8

II. MONITORING, RECORDING AND REPORTING REQUIREMENTS..... 11

- A. REPRESENTATIVE SAMPLING..... 11
- B. MONITORING PROCEDURES 11
- C. PENALTIES FOR TAMPERING..... 11
- D. REPORTING OF MONITORING RESULTS..... 11
- E. COMPLIANCE SCHEDULES 11
- F. ADDITIONAL MONITORING BY THE PERMITTEE 12
- G. RECORDS CONTENTS 12
- H. RETENTION OF RECORDS..... 12
- I. TWENTY-FOUR HOUR NOTICE OF NONCOMPLIANCE REPORTING 13
- J. OTHER NONCOMPLIANCE REPORTING..... 13
- K. INSPECTION AND ENTRY..... 14

III. COMPLIANCE RESPONSIBILITIES 15

- A. DUTY TO COMPLY 15
- B. PENALTIES FOR VIOLATIONS OF PERMIT CONDITIONS 15
- C. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE 15
- D. DUTY TO MITIGATE..... 15
- E. PROPER OPERATION AND MAINTENANCE 16
- F. REMOVED SUBSTANCES 16
- G. BYPASS OF TREATMENT FACILITIES..... 16

IV. GENERAL REQUIREMENTS..... 18

- A. PLANNED CHANGES..... 18
- B. ANTICIPATED NONCOMPLIANCE 18
- C. PERMIT ACTIONS 18
- D. DUTY TO REAPPLY 18
- E. DUTY TO PROVIDE INFORMATION 18
- F. OTHER INFORMATION..... 18
- G. SIGNATORY REQUIREMENTS 19
- H. PENALTIES FOR FALSIFICATION OF REPORTS 20
- I. AVAILABILITY OF REPORTS..... 20
- J. OIL AND HAZARDOUS SUBSTANCE LIABILITY 20
- K. PROPERTY OR WATER RIGHTS 20
- L. SEVERABILITY 20
- M. TRANSFERS..... 21
- N. FEES..... 21
- O. REOPENER PROVISIONS 22

V. DEFINITIONS 23

I. EFFLUENT LIMITATIONS, MONITORING REQUIREMENTS & OTHER CONDITIONS

A. Description of Discharge Points and Mixing Zones

The authorization to discharge provided under this permit is limited to the outfalls specially designated below as discharge locations. Discharges at any location not authorized under a MGWPCS permit is a violation of the Montana Water Quality Act and could subject the person(s) responsible for such discharge to penalties under the Act. Knowingly discharging from an unauthorized location or failing to report an unauthorized discharge within a reasonable time from first learning of an unauthorized discharge could subject such person to criminal penalties as provided under Part 75-5-632 of the Montana Water Quality Act.

<u>Outfall</u>	<u>Description</u>
001	Subsurface Drainfield NWNW Section 13, Township 08 North, Range 01 West Latitude: 46.45503, Longitude: -111.67872 Broadwater County

Department Standard Mixing Zone

A mixing zone has been authorized. The mixing zone bearing N87°E has a standard 500 length and 15 foot depth. Analytes authorized for dilution includes: Fluoride, Nitrogen, Antimony, Cadmium, Lead, Manganese, Nickle, Strontium, Zinc, Total Dissolved Solids, and Sulfate.

Wastewater Treatment System

A reverse osmosis (RO) system including multimedia filtration.

B. Effluent Limitations and Prohibitions

Upon the effective date of the permit and lasting until the term of the permit; the quality of effluent discharged must meet the limitations set forth in Table 1.

Table 1: Effluent Limitations – Outfall 001		
Parameter	Units	Monthly Average
Fluoride [as F]	mg/L	0.6
Total Nitrogen [as N]	mg/L	7.9
Antimony [as Sb]	mg/L	0.0010
Arsenic [as As]	mg/L	0.001
Cadmium [as Cd]	mg/L	0.00079
Lead [as Pb]	mg/L	0.0024
Mercury [as Hg]	mg/L	0.00009
Nickel [as Ni]	mg/L	0.016
Strontium [as Sr]	mg/L	0.61
Zinc [as Zn]	mg/L	0.32

C. Monitoring and Reporting Requirements

1. Wastewater Monitoring

- Wastewater sampling must be completed in accordance with the DEQ approved Mine Water Monitoring, Analysis, and Reporting Plan.
- Water samples are collected before (**INF-001**) and after treatment (**ENF-001**). The sample locations are to be established by a DEQ approved Mine Water Monitoring, Analysis, and Reporting Plan. The proposed influent samples are to be collected from the Frac/Weir Tank (TK-001) or a respective sample port located on the inflow line in the #1 Tunnel. The proposed effluent samples are to be collected from the Effluent Tank (TK-001) or a respective sample port on the outflow drainfield water line. The proposed effluent flow meter (**FM-001**) is to be located on the outflow drainfield water line (post effluent tank). The final locations of these as-built monitoring points will be documented in the Mine Water Monitoring, Analysis, and Reporting Plan.
- Samples must be representative of the nature of the monitored discharge.
- Wastewater sampling requirements are listed in Table 2, 3 and 4.
- Wastewater samples must be collected and reported if discharge occurred at the outfall at any time during each monitoring period.
- Analytical methods must be in accordance with the Code of Federal Regulations (CFR), Title 40, Part 136, unless specified or otherwise approved by the Department.

- Effluent flow rate measurements are to be recorded and reported in accordance with a DEQ approved Mine Water Monitoring, Analysis, and Reporting Plan.
- The proposed effluent flow meter (**FM-001**) is to be located on the outflow drainfield water line (post effluent tank). The final locations of this as-built monitoring point will be documented in the Mine Water Monitoring, Analysis, and Reporting Plan.
- Effluent flow rate measurements must be representative of the volume of the monitored discharge.
- Effluent flow monitoring requirements are listed in Table 2.

2. Wastewater Reporting

A. Compliance Reporting

- Wastewater compliance reporting must be completed in accordance with the DEQ approved Mine Water Monitoring, Analysis, and Reporting Plan.
- Wastewater compliance reporting requirements are listed in Table 2.
- Submittal of compliance data must be completed in use of discharge monitoring reports (DMRs). The reports are to be electronically submitted in use of the NetDMR reporting tool. Reports are required regardless of the operational status of the facility. The reporting of no discharge is allowed only if discharge or overflow did not occur at any time during the respective monitoring period. Bench records need to support this activity status.

B. Special Condition Reporting

- Wastewater special condition reporting must be completed in accordance with the DEQ approved Mine Water Monitoring, Analysis, and Reporting Plan.
- Wastewater special condition reporting requirements are listed in Table 3 and 4.
- Submittal of the special condition data to DEQ is required on an annual basis. Reports are required regardless of the operational status of the facility. The reporting of no discharge is allowed only if discharge or overflow did not occur at any time during the respective monitoring period. Bench records need to support this activity status.

3. Ground Water Monitoring and Reporting Requirements

- Ground Water Monitoring and Reporting is required for monitoring wells: MW-UG (MW-4), MW-DG#1 (MW-1), MW-DG#2 (MW-2), and MW-SG (MW-3).
- Monitoring well sampling and reporting requirements are listed in Table 5, 6, 7 and 8.
- Monitoring and reporting must be completed in accordance with a Ground Water Monitoring, Analysis, and Reporting Operational Manual. The manual shall provide for the consistent identification, development, monitoring, sampling, calculating, recording, and reporting of each monitoring well.
- Monitoring wells must not be sampled until after they are properly purged. The purge volumes and procedures for each well must be determined within the Ground Water Monitoring, Analysis, and Reporting Operational Manual. Monitoring well development records need to be maintained on-site that document the proper development of the wells for each monitoring event.
- The permittee shall document the methodology and equipment used to sample monitoring wells for each event. Self-monitoring records shall be maintained on-site.
- Monitoring must take place even when the facility is nonoperational.
- Analytical methods must be in accordance with CFR Title 40, Part 136, unless specified or otherwise approved by the Department.

- If any of the monitoring wells are abandoned, destroyed, decommissioned or non-viable; or are no longer able to be sampled due to fluctuations in the ground water table; the permittee shall install (or rehab) a new well to replace the abandoned, destroyed, decommissioned, or non-viable well.
- All wells, piezometers, and boreholes that can create preferential subsurface flows and are located in or near the drainfield shall be properly plugged and abandoned prior to construction of the drainfield. Shallow monitoring of the vadose zone for operation and maintenance purposes may be approved by the Department.

Table 2: Effluent Monitoring and Reporting Requirements - Compliance (DMR)

Analyte/Measurement	Monitor Location	Units	Sample Type ⁽¹⁾	Minimum Sample Frequency	Reporting Requirements ⁽¹⁾⁽²⁾	Report Frequency
Flow Rate, Effluent ⁽³⁾	FM-001	gal/Day	Continuous	Continuous	Monthly Average ⁽⁴⁾	Monthly
	FM-001	gal/Month	Continuous	Continuous	Monthly Total	Monthly
Fluoride [as F]	EFF-001	mg/L	Grab	1/Month	Monthly Average	Monthly
Nitrogen, Total [as N] ⁽⁵⁾	EFF-001	mg/L	Grab	1/Month	Monthly Average	Monthly
Dissolved Metals						
Antimony [as Sb]	EFF-001	mg/L	Grab	1/Month	Monthly Average	Monthly
Arsenic [as As]	EFF-001	mg/L	Grab	1/Month	Monthly Average	Monthly
Cadmium [as Cd]	EFF-001	mg/L	Grab	1/Month	Monthly Average	Monthly
Lead [as Pb]	EFF-001	mg/L	Grab	1/Month	Monthly Average	Monthly
Mercury [as Hg]	EFF-001	mg/L	Grab	1/Month	Monthly Average	Monthly
Nickel [as Ni]	EFF-001	mg/L	Grab	1/Month	Monthly Average	Monthly
Strontium [as Sr]	EFF-001	mg/L	Grab	1/Month	Monthly Average	Monthly
Zinc [as Zn]	EFF-001	mg/L	Grab	1/Month	Monthly Average	Monthly

Footnotes:

Compliance reporting is to be completed using Discharge Monitoring Reports (DMR) via the online NetDMR reporting tool.

EFF-001: Description provided in Table 1 of the Fact Sheet document.

FM-001: Description provided in Table 1 of the Fact Sheet document.

Dissolved: Metal parameters will be analyzed using the dissolved portion (0.45 micron filter).

If no discharge occurs through out the reporting period, "no discharge" shall be recorded on the wastewater Discharge Monitoring Report (DMR) report forms.

Parameter analytical methods shall be in accordance with the Code of Federal Regulations, 40 CFR Part 136, unless specified above or within a deviation authorized by DEQ.

(1) See definitions in Part V of the permit unless defined within this table or by a permit condition.

(2) Monthly Average: The average of all individual daily concentrations (mg/L) analyzed during the Monthly reporting period.

(3) Requires recording device and/or totalizing meter. Equipment must be capable of recording Daily and Monthly effluent volumes.

(4) Monthly Average Flows: Determine total flows (gal/Month) that occurred during the Monthly reporting period. Divide total flow by the number of calendar days in the Monthly reporting period to get a unit of daily flow (gal/day).

(5) Total Nitrogen is the sum of Nitrate + Nitrite and Total Kjeldahl Nitrogen.

Table 3: Influent Monitoring Requirements

Monitoring Locations: INF-001
 Sampling Frequency: Monthly
 Required Laboratory Method: 40 CFR 136⁽¹⁾

Wastewater Reporting Requirements - Special Condition⁽²⁾

Cumulative Record of all Individual Sampling Results through Term of the Current Permit Cycle.
 Statistical Summary Report of all Individual Results through Term of the Current Permit Cycle⁽³⁾
 Report Action Date: To be Updated Annually on January 1st through the Term of the Permit Cycle.
 Each Annual Report must be received by DEQ on or before January 28th.

Analyte/Measurement	Units	Individual Sample Record (Repeat as Necessary)							Permit Cycle Statistical Summary						
		Sample Collection Date	Operational during sampling period? (y/n)	Lab Result ⁽⁴⁾	Laboratory Reporting Level	Non-Detect? (y/n)	Laboratory Method	Laboratory Qualifier Code(s) ⁽⁵⁾	Count of Samples Collected	Lab Results				Count of Non-detects	Average Laboratory Reporting Level
										Minimum	Average	Median	Maximum		
Acidity, Total [as CaCO ₃]	mg/L														
Alkalinity, Total [as CaCO ₃]	mg/L														
Bicarbonate [as HCO ₃]	mg/L														
Hardness [as CaCO ₃]	mg/L														
Oxidation-Reduction Potential	mg/L														
Oxygen, Dissolved	s.u.														
pH	µS/cm														
Solids, Total Dissolved (TDS)	mg/L														
Specific Conductivity [SC] @ 25°C	mg/L														
Calcium [as Ca]	mg/L														
Chloride [as Cl]	mg/L														
Fluoride [as F]	mg/L														
Magnesium [as Mg]	mg/L														
Potassium [as K]	mg/L														
Sodium [as Na]	mg/L														
Sulfate [SO ₄ ²⁻]	mg/L														
Oil & Grease ⁽⁶⁾	mg/L														
Petroleum Hydrocarbons, Total ⁽⁶⁾	mg/L														
Nitrogen, Ammonia [as N]	mg/L														
Nitrogen, Kjeldahl, Total [as N]	mg/L														
Nitrogen, Nitrite + Nitrate [as N]	mg/L														
Nitrogen, Total [as N] ⁽⁷⁾	mg/L														
Phosphorus, Total [as P]	mg/L														
Dissolved Metals (0.45 micron filter)															
Aluminum [as Al]	mg/L														
Antimony [as Sb]	mg/L														
Arsenic [as As]	mg/L														
Barium [as Ba]	mg/L														
Beryllium [Be]	mg/L														
Cadmium [as Cd]	mg/L														
Copper [as Cu]	mg/L														
Iron, Total [as Fe]	mg/L														
Iron, Ferrous [as Fe ²⁺]	mg/L														
Iron, Ferric [as Fe ³⁺]	mg/L														
Lead [as Pb]	mg/L														
Manganese [as Mn]	mg/L														
Mercury [as Hg]	mg/L														
Nickel [as Ni]	mg/L														
Selenium [as Se]	mg/L														
Silver [as Ag]	mg/L														
Strontium [as Sr]	mg/L														
Thallium [as Tl]	mg/L														
Zinc [as Zn]	mg/L														

Footnotes:
 s.u.: standard units
 Dissolved: Metal parameters will be analyzed using the dissolved portion (0.45 micron filter)
 Monitoring and Reporting will be required regardless of the operational status of the facility
 (1) The listed laboratory analytical method must be used unless written approval by DEQ is received.
 (2) The permittee may create their own report in a format that suits their operational and reporting needs. It must however contain all data inputs as shown above and in the respective permit condition.
 All submitted data must be in a digital format and the report must be queryable (e.g. excel table). Report submittals directly to the MGWPCS Program Lead via email will be accepted.
 (3) Each submitted report must cumulate all observations and samples collected to date, starting with the permit effective date and continuing through the term of the permit.
 (4) For nondetects, the laboratory reporting level must be entered in as the respective lab result.
 (5) Laboratory qualifiers are not common, leave blank if none. Attach a description of all listed codes if any.
 (6) EPA method 1664A.
 (7) Total Nitrogen is the sum of Nitrate + Nitrite and Total Kjeldahl Nitrogen.

Table 4: Effluent Monitoring Requirements

Monitoring Locations: EFF-001
 Sampling Frequency: Monthly
 Required Laboratory Method: 40 CFR 136⁽¹⁾

Wastewater Reporting Requirements - Special Condition⁽²⁾

Cumulative Record of all Individual Sampling Results through Term of the Current Permit Cycle.
 Statistical Summary Report of all Individual Results through Term of the Current Permit Cycle⁽³⁾
 Report Action Date: To be Updated Annually on January 1st through the Term of the Permit Cycle.
 Each Annual Report must be received by DEQ on or before January 28th.

Analyte/M Measurement	Units	Individual Sample Record (Repeat as Necessary)							Permit Cycle Statistical Summary						
		Sample Collection Date	Operational during sampling period? (y/n)	Lab Result ⁽⁴⁾	Laboratory Reporting Level	Non-Detect? (y/n)	Laboratory Method	Laboratory Qualifier Code(s) ⁽⁵⁾	Count of Samples Collected	Lab Results				Count of Non-detects	Average Laboratory Reporting Level
										Minimum	Average	Median	Maximum		
Acidity, Total [as CaCO ₃]	mg/L														
Alkalinity, Total [as CaCO ₃]	mg/L														
Bicarbonate [as HCO ₃]	mg/L														
Hardness [as CaCO ₃]	mg/L														
Oxidation-Reduction Potential	mg/L														
Oxygen, Dissolved	s.u.														
pH	µS/cm														
Solids, Total Dissolved (TDS)	mg/L														
Specific Conductivity [SC] @ 25°C	mg/L														
Calcium [as Ca]	mg/L														
Chloride [as Cl]	mg/L														
Fluoride [as F]	mg/L														
Magnesium [as Mg]	mg/L														
Potassium [as K]	mg/L														
Sodium [as Na]	mg/L														
Sulfate [SO ₄ ²⁻]	mg/L														
Oil & Grease ⁽⁶⁾	mg/L														
Petroleum Hydrocarbons, Total ⁽⁶⁾	mg/L														
Nitrogen, Ammonia [as N]	mg/L														
Nitrogen, Kjeldahl, Total [as N]	mg/L														
Nitrogen, Nitrite + Nitrate [as N]	mg/L														
Nitrogen, Total [as N] ⁽⁷⁾	mg/L														
Phosphorus, Total [as P]	mg/L														
Dissolved Metals (0.45 micron filter)															
Aluminum [as Al]	mg/L														
Antimony [as Sb]	mg/L														
Arsenic [as As]	mg/L														
Barium [as Ba]	mg/L														
Beryllium [Be]	mg/L														
Cadmium [as Cd]	mg/L														
Copper [as Cu]	mg/L														
Iron, Total [as Fe]	mg/L														
Iron, Ferrous [as Fe ²⁺]	mg/L														
Iron, Ferric [as Fe ³⁺]	mg/L														
Lead [as Pb]	mg/L														
Manganese [as Mn]	mg/L														
Mercury [as Hg]	mg/L														
Nickel [as Ni]	mg/L														
Selenium [as Se]	mg/L														
Silver [as Ag]	mg/L														
Strontium [as Sr]	mg/L														
Thallium [as Tl]	mg/L														
Zinc [as Zn]	mg/L														

Footnotes:
 s.u.: standard units
 Dissolved: Metal parameters will be analyzed using the dissolved portion (0.45 micron filter).
 Monitoring and Reporting will be required regardless of the operational status of the facility.
 (1) The listed laboratory analytical method must be used unless written approval by DEQ is received.
 (2) The permittee may create their own report in a format that suits their operational and reporting needs. It must however contain all data inputs as shown above and in the respective permit condition.
 All submitted data must be in a digital format and the report must be queryable (e.g. excel table). Report submittals directly to the MGWPCS Program Lead via email will be accepted.
 (3) Each submitted report must cumulate all observations and samples collected to date, starting with the permit effective date and continuing through the term of the permit.
 (4) For nondetects, the laboratory reporting level must be entered in as the respective lab result.
 (5) Laboratory qualifiers are not common, leave blank if none. Attach a description of all listed codes if any.
 (6) EPA method 1664A.
 (7) Total Nitrogen is the sum of Nitrate + Nitrite and Total Kjeldahl Nitrogen.

Table 5: Ground Water Monitoring Requirements for MW-UG (MW-4)

Required Laboratory Method: 40 CFR 136⁽¹⁾

Monitoring Frequency: Monthly

Ground Water Reporting Requirements - Special Condition⁽²⁾

Cumulative Record of all Individual Monitoring and Sample Results through Term of the Current Permit Cycle.

Statistical Summary Report of all Individual Results through Term of the Current Permit Cycle.⁽³⁾

Report Action Date: To be Updated Annually on January 1st through the Term of the Permit Cycle.

Each Annual Report must be received by DEQ on or before January 28th.

Analyte/Measurement	Units	Individual Sample Record (Repeat as Necessary)							Permit Cycle Statistical Summary							
		Sample Collection Date	Dry-Well Conditions? (y/n)	Lab Result ⁽⁴⁾	Laboratory Reporting Level	Non-Detect? (y/n)	Laboratory Method	Laboratory Qualifier Code(s) ⁽⁵⁾	Count of Samples Collected	Count of Dry-Well Occurrences	Lab Results				Count of Non-detects	Average Laboratory Reporting Level
											Minimum	Average	Median	Maximum		
Temperature	°C															
Total Well Depth (TD)	ft-bmp															
Static Water Level (SWL)	ft-bmp															
Static Water Level (SWL)	ft-MSL															
pH	µS/cm															
Solids, Total Dissolved (TDS)	mg/L															
Specific Conductivity [SC] @ 25°C	mg/L															
Chloride [as Cl]	mg/L															
Fluoride [as F]	mg/L															
Sulfate [SO ²⁻]	mg/L															
Nitrogen, Ammonia [as N]	mg/L															
Nitrogen, Kjeldahl, Total [as N]	mg/L															
Nitrogen, Nitrite + Nitrate [as N]	mg/L															
Nitrogen, Total [as N] ⁽⁶⁾	mg/L															
Phosphorus, Total [as P]	mg/L															
Dissolved Metals (0.45 micron filter)																
Aluminum [as Al]	mg/L															
Antimony [as Sb]	mg/L															
Arsenic [as As]	mg/L															
Barium [as Ba]	mg/L															
Beryllium [Be]	mg/L															
Cadmium [as Cd]	mg/L															
Copper [as Cu]	mg/L															
Iron, Total [as Fe]	mg/L															
Lead [as Pb]	mg/L															
Manganese [as Mn]	mg/L															
Mercury [as Hg]	mg/L															
Nickel [as Ni]	mg/L															
Selenium [as Se]	mg/L															
Silver [as Ag]	mg/L															
Strontium [as Sr]	mg/L															
Thallium [as Tl]	mg/L															
Zinc [as Zn]	mg/L															

Footnotes:
 ft-bmp: feet below measuring point.
 ft-MSL: feet above mean sea level
 s.u.: standard units
 Dissolved: Metal parameters will be analyzed using the dissolved portion (0.45 micron filter).
 Monitoring and Reporting will be required regardless of the operational status of the facility or of the condition of the monitoring well.
 (1) The listed laboratory analytical method must be used unless written approval by DEQ is received.
 (2) The permittee may create their own report in a format that suits their operational and reporting needs. It must however contain all data inputs as shown above and in the respective permit condition.
 All submitted data must be in a digital format and the report must be queryable (e.g. excel table). Report submittals directly to the MGWPCS Program Lead via email will be accepted.
 (3) Each submitted report must cumulate all monitoring events and samples collected to date, starting with the permit effective date and continuing through the term of the permit.
 (4) For nondetects, the laboratory reporting level must be entered in as the respective lab result.
 (5) Laboratory qualifiers are not common, leave blank if none. Attach a description of all listed codes if any.
 (6) Total Nitrogen is the sum of Nitrate + Nitrite and Total Kjeldahl Nitrogen.

Table 6: Ground Water Monitoring Requirements for MW-DG#1 (MW-1)

Required Laboratory Method: 40 CFR 136 ⁽¹⁾
 Monitoring Frequency: Monthly

Ground Water Reporting Requirements - Special Condition ⁽²⁾

Cumulative Record of all Individual Monitoring and Sample Results through Term of the Current Permit Cycle.
 Statistical Summary Report of all Individual Results through Term of the Current Permit Cycle. ⁽³⁾
 Report Action Date: To be Updated Annually on January 1st through the Term of the Permit Cycle.
 Each Annual Report must be received by DEQ on or before January 28th.

Analyte/Measurement	Units	Individual Sample Record (Repeat as Necessary)							Permit Cycle Statistical Summary							
		Sample Collection Date	Dry-Well Conditions? (y/n)	Lab Result ⁽⁴⁾	Laboratory Reporting Level	Non-Detect? (y/n)	Laboratory Method	Laboratory Qualifier Code(s) ⁽⁵⁾	Count of Samples Collected	Count of Dry-Well Occurrences	Lab Results				Count of Non-detects	Average Laboratory Reporting Level
											Minimum	Average	Median	Maximum		
Temperature	°C															
Total Well Depth (TD)	ft-bmp															
Static Water Level (SWL)	ft-bmp															
Static Water Level (SWL)	ft-MSL															
pH	µS/cm															
Solids, Total Dissolved (TDS)	mg/L															
Specific Conductivity [SC] @ 25°C	mg/L															
Chloride [as Cl]	mg/L															
Fluoride [as F]	mg/L															
Sulfate [SO ²⁻]	mg/L															
Nitrogen, Ammonia [as N]	mg/L															
Nitrogen, Kjeldahl, Total [as N]	mg/L															
Nitrogen, Nitrite + Nitrate [as N]	mg/L															
Nitrogen, Total [as N] ⁽⁶⁾	mg/L															
Phosphorus, Total [as P]	mg/L															
Dissolved Metals (0.45 micron filter)																
Aluminum [as Al]	mg/L															
Antimony [as Sb]	mg/L															
Arsenic [as As]	mg/L															
Barium [as Ba]	mg/L															
Beryllium [Be]	mg/L															
Cadmium [as Cd]	mg/L															
Copper [as Cu]	mg/L															
Iron, Total [as Fe]	mg/L															
Lead [as Pb]	mg/L															
Manganese [as Mn]	mg/L															
Mercury [as Hg]	mg/L															
Nickel [as Ni]	mg/L															
Selenium [as Se]	mg/L															
Silver [as Ag]	mg/L															
Strontium [as Sr]	mg/L															
Thallium [as Tl]	mg/L															
Zinc [as Zn]	mg/L															

Footnotes:
 ft-bmp: feet below measuring point.
 ft-MSL: feet above mean sea level
 s.u.: standard units
 Dissolved: Metal parameters will be analyzed using the dissolved portion (0.45 micron filter).
 Monitoring and Reporting will be required regardless of the operational status of the facility or of the condition of the monitoring well.
 (1) The listed laboratory analytical method must be used unless written approval by DEQ is received.
 (2) The permittee may create their own report in a format that suits their operational and reporting needs. It must however contain all data inputs as shown above and in the respective permit condition.
 All submitted data must be in a digital format and the report must be queryable (e.g. excel table). Report submittals directly to the MGWPCS Program Lead via email will be accepted.
 (3) Each submitted report must cumulate all monitoring events and samples collected to date, starting with the permit effective date and continuing through the term of the permit.
 (4) For nondetects, the laboratory reporting level must be entered in as the respective lab result.
 (5) Laboratory qualifiers are not common, leave blank if none. Attach a description of all listed codes if any.
 (6) Total Nitrogen is the sum of Nitrate + Nitrite and Total Kjeldahl Nitrogen.

Table 7: Ground Water Monitoring Requirements for MW-DG#2 (MW-2)

Required Laboratory Method: 40 CFR 136 ⁽¹⁾
 Monitoring Frequency: Monthly

Ground Water Reporting Requirements - Special Condition ⁽²⁾

Cumulative Record of all Individual Monitoring and Sample Results through Term of the Current Permit Cycle.
 Statistical Summary Report of all Individual Results through Term of the Current Permit Cycle. ⁽³⁾
 Report Action Date: To be Updated Annually on January 1st through the Term of the Permit Cycle.
 Each Annual Report must be received by DEQ on or before January 28th.

Analyte/Measurement	Units	Individual Sample Record (Repeat as Necessary)							Permit Cycle Statistical Summary							
		Sample Collection Date	Dry-Well Conditions? (y/n)	Lab Result ⁽⁴⁾	Laboratory Reporting Level	Non-Detect? (y/n)	Laboratory Method	Laboratory Qualifier Code(s) ⁽⁵⁾	Count of Samples Collected	Count of Dry-Well Occurrences	Lab Results				Count of Non-detects	Average Laboratory Reporting Level
											Minimum	Average	Median	Maximum		
Temperature	°C															
Total Well Depth (TD)	ft-bmp															
Static Water Level (SWL)	ft-bmp															
Static Water Level (SWL)	ft-MSL															
pH	µS/cm															
Solids, Total Dissolved (TDS)	mg/L															
Specific Conductivity [SC] @ 25°C	mg/L															
Chloride [as Cl]	mg/L															
Fluoride [as F]	mg/L															
Sulfate [SO ²⁻]	mg/L															
Nitrogen, Ammonia [as N]	mg/L															
Nitrogen, Kjeldahl, Total [as N]	mg/L															
Nitrogen, Nitrite + Nitrate [as N]	mg/L															
Nitrogen, Total [as N] ⁽⁶⁾	mg/L															
Phosphorus, Total [as P]	mg/L															
Dissolved Metals (0.45 micron filter)																
Aluminum [as Al]	mg/L															
Antimony [as Sb]	mg/L															
Arsenic [as As]	mg/L															
Barium [as Ba]	mg/L															
Beryllium [Be]	mg/L															
Cadmium [as Cd]	mg/L															
Copper [as Cu]	mg/L															
Iron, Total [as Fe]	mg/L															
Lead [as Pb]	mg/L															
Manganese [as Mn]	mg/L															
Mercury [as Hg]	mg/L															
Nickel [as Ni]	mg/L															
Selenium [as Se]	mg/L															
Silver [as Ag]	mg/L															
Strontium [as Sr]	mg/L															
Thallium [as Tl]	mg/L															
Zinc [as Zn]	mg/L															

Footnotes:
 ft-bmp: feet below measuring point.
 ft-MSL: feet above mean sea level
 s.u.: standard units
 Dissolved: Metal parameters will be analyzed using the dissolved portion (0.45 micron filter).
 Monitoring and Reporting will be required regardless of the operational status of the facility or of the condition of the monitoring well.
 (1) The listed laboratory analytical method must be used unless written approval by DEQ is received.
 (2) The permittee may create their own report in a format that suits their operational and reporting needs. It must however contain all data inputs as shown above and in the respective permit condition.
 All submitted data must be in a digital format and the report must be queryable (e.g. excel table). Report submittals directly to the MGWPCS Program Lead via email will be accepted.
 (3) Each submitted report must cumulate all monitoring events and samples collected to date, starting with the permit effective date and continuing through the term of the permit.
 (4) For nondetects, the laboratory reporting level must be entered in as the respective lab result.
 (5) Laboratory qualifiers are not common, leave blank if none. Attach a description of all listed codes if any.
 (6) Total Nitrogen is the sum of Nitrate + Nitrite and Total Kjeldahl Nitrogen.

Table 8: Ground Water Monitoring Requirements for MW-SG (MW-3)

Required Laboratory Method: 40 CFR 136 ⁽¹⁾
 Monitoring Frequency: Monthly

Ground Water Reporting Requirements - Special Condition ⁽²⁾

Cumulative Record of all Individual Monitoring and Sample Results through Term of the Current Permit Cycle.
 Statistical Summary Report of all Individual Results through Term of the Current Permit Cycle. ⁽³⁾
 Report Action Date: To be Updated Annually on January 1st through the Term of the Permit Cycle.
 Each Annual Report must be received by DEQ on or before January 28th.

Analyte/Measurement	Units	Individual Sample Record (Repeat as Necessary)							Permit Cycle Statistical Summary							
		Sample Collection Date	Dry-Well Conditions? (y/n)	Lab Result ⁽⁴⁾	Laboratory Reporting Level	Non-Detect? (y/n)	Laboratory Method	Laboratory Qualifier Code(s) ⁽⁵⁾	Count of Samples Collected	Count of Dry-Well Occurrences	Lab Results				Count of Non-detects	Average Laboratory Reporting Level
											Minimum	Average	Median	Maximum		
Temperature	°C															
Total Well Depth (TD)	ft-bmp															
Static Water Level (SWL)	ft-bmp															
Static Water Level (SWL)	ft-MSL															
pH	µS/cm															
Solids, Total Dissolved (TDS)	mg/L															
Specific Conductivity [SC] @ 25°C	mg/L															
Chloride [as Cl]	mg/L															
Fluoride [as F]	mg/L															
Sulfate [SO ²⁻]	mg/L															
Nitrogen, Ammonia [as N]	mg/L															
Nitrogen, Kjeldahl, Total [as N]	mg/L															
Nitrogen, Nitrite + Nitrate [as N]	mg/L															
Nitrogen, Total [as N] ⁽⁶⁾	mg/L															
Phosphorus, Total [as P]	mg/L															
Dissolved Metals (0.45 micron filter)																
Aluminum [as Al]	mg/L															
Antimony [as Sb]	mg/L															
Arsenic [as As]	mg/L															
Barium [as Ba]	mg/L															
Beryllium [Be]	mg/L															
Cadmium [as Cd]	mg/L															
Copper [as Cu]	mg/L															
Iron, Total [as Fe]	mg/L															
Lead [as Pb]	mg/L															
Manganese [as Mn]	mg/L															
Mercury [as Hg]	mg/L															
Nickel [as Ni]	mg/L															
Selenium [as Se]	mg/L															
Silver [as Ag]	mg/L															
Strontium [as Sr]	mg/L															
Thallium [as Tl]	mg/L															
Zinc [as Zn]	mg/L															

Footnotes:
 ft-bmp: feet below measuring point.
 ft-MSL: feet above mean sea level
 s.u.: standard units
 Dissolved: Metal parameters will be analyzed using the dissolved portion (0.45 micron filter).
 Monitoring and Reporting will be required regardless of the operational status of the facility or of the condition of the monitoring well.
 (1) The listed laboratory analytical method must be used unless written approval by DEQ is received.
 (2) The permittee may create their own report in a format that suits their operational and reporting needs. It must however contain all data inputs as shown above and in the respective permit condition.
 All submitted data must be in a digital format and the report must be queryable (e.g. excel table). Report submittals directly to the MGWPCS Program Lead via email will be accepted.
 (3) Each submitted report must cumulate all monitoring events and samples collected to date, starting with the permit effective date and continuing through the term of the permit.
 (4) For nondetects, the laboratory reporting level must be entered in as the respective lab result.
 (5) Laboratory qualifiers are not common, leave blank if none. Attach a description of all listed codes if any.
 (6) Total Nitrogen is the sum of Nitrate + Nitrite and Total Kjeldahl Nitrogen.

D. Special Conditions

1. **Ground Water Monitoring, Analysis, and Reporting Operational Manual**

The permittee shall use Best Management Practices (BMPs) in developing SOPs (Standard Operating Procedures) for sampling, analyzing, and reporting ground water characteristics. These procedures must be fully described in an SOP manual provided to DEQ. The SOP manual must be site-specific and result in monitoring and reporting that is representative of the nature of the shallow ground water bearing zone. The manual must provide for consistent identification, development, monitoring, sampling, calculating, recording, and reporting of the monitoring wells. The manual must provide for guidance on: determining and documenting dry-well occurrences; and determining future well viability.

The completion and submittal date of the manual is listed in Table 9. The manual must be reviewed and approved by DEQ prior to implementation. The permittee shall maintain a copy of the manual, monitoring well development records, dry well occurrence records, sampling records, and calibration records at the facility at all times. All subsequent amended manuals must be reported to DEQ. Ground water monitoring requirements are discussed in Table 9.

2. **Minewater Monitoring, Analysis, and Reporting Operational Manual – Community System**

The permittee shall use BMPs in developing SOPs for sampling, analyzing, and reporting wastewater characteristics. These procedures must be fully described in an SOP manual provided to DEQ. The manual needs to be site-specific and result in monitoring and reporting that is representative of the nature of the wastewater streams. The manual must be used as a guide in:

- Equipment calibration.
- Preparing and collecting wastewater influent (INF-001) and effluent (EFF-001) wastewater samples.
- Analyte calculations.
- Recording and reporting wastewater characteristics.
- Recording and reporting wastewater flow rates.

The completion and submittal date for the manual is listed in Table 9. The manual must be reviewed and approved by DEQ prior to implementation. The permittee shall maintain a copy of the operational manual, sampling, and calibration records at the community facility at all times. All subsequent amended manuals must be reported to DEQ.

3. **Monitoring Well Viability**

The permittee shall monitor and collect representative ground water samples from the shallow water bearing zones. If any of the monitoring wells are abandoned, destroyed, decommissioned, or non-viable; or are no longer able to be monitored due to obstructions or fluctuations in the ground water table; the permittee shall rehab the non-viable well or replace with the installation of a new well.

4. Monitoring Well Replacement, Rehabilitation, and Abandonment

If for any reason a monitoring well needs to be replaced, rehabilitated, or abandoned, the permittee shall submit a plan to DEQ for approval prior to the action taking place. The plan must document existing site-specifics and the reasoning behind the proposed action. The plan must detail the specific steps to take place during deconstruction, drilling, workover, and/or construction of the respective wells.

Written permission from DEQ is needed prior to the abandonment of any monitoring well. At minimum, monitoring well abandonment activities must be done in accordance with ARM 36.21.810(2-5). If the monitoring well is located in or around any collection, storage, treatment, disposal, land application, and/or mixing zone workings (or similar) additional actions may be required to prevent preferential subsurface flows, cross contamination, and to mitigate against any unauthorized wastewater releases. All new well installations must have detailed drilling, lithology, geospatial, and well construction information. A follow-up report summarizing all actions and details must be submitted to DEQ within 30 calendar days.

5. Acid Mine Drainage Prediction and Mineralogy Reports

The permittee shall use BMPs for analyzing current and future AMD potential on an annual basis. The analysis shall use both rock and water quality sample data. The report will need to include the Acid Neutralization Potential (ANP) and Net Neutralization Potential (NNP). The completion and submittal dates for the reports are listed in Table 9.

Table 9: Compliance Schedule			
Action	Freq.	Scheduled Completion Date of Action⁽¹⁾	Scheduled Report Due Date.⁽²⁾
Develop and implement a site-specific Ground Water Monitoring, Analysis, and Reporting Plan. ⁽³⁾	Single event	June 30, 2022	July 28, 2022
Develop and implement a site-specific Mine Water Monitoring, Analysis, and Reporting Plan. ⁽³⁾	Single event	June 30, 2022	July 28, 2022
Submit Annual Ground Water Monitoring Reports. ⁽⁴⁾	Annually	Annually on December 31st.	Annually on January 28th. (The initial report on the 2022 calendar year is due on January 28, 2023.)
Submit Annual Mine Water Monitoring Reports. ⁽⁴⁾	Annually	Annually on December 31st.	Annually on January 28th. (The initial report on the 2022 calendar year is due on January 28, 2023.)
Submit Annual Acid Mine Drainage Prediction and Mineralogy Reports. ⁽⁴⁾	Annually	Annually on December 31st.	Annually on January 28th. (The initial report on the 2022 calendar year is due on January 28, 2023.)
Footnotes:			
(1) The actions must be completed on or before the scheduled completion dates.			
(2) Reports must be received by DEQ on or before the scheduled report due dates. The reports must include all information as required for each applicable action permit condition.			
(3) The completed plan (action), in place of a written report, must be received by DEQ on or before the scheduled report due date.			
(4) Sampling and reporting requirements are listed in Part I.			

II. MONITORING, RECORDING AND REPORTING REQUIREMENTS

A. Representative Sampling

Samples taken in compliance with the monitoring requirements established under Part I of the permit shall be collected from the effluent stream prior to discharge into the receiving waters. Samples and measurements shall be representative of the volume and nature of the monitored discharge.

B. Monitoring Procedures

Monitoring must be conducted according to test procedures approved under Part 136, Title 40 of the Code of Federal Regulations (CFR), unless other test procedures have been specified in this permit. All flow-measuring and flow-recording devices used in obtaining data submitted in self-monitoring reports must indicate values within 10 percent of the actual flow being measured.

C. Penalties for Tampering

The Montana Water Quality Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$25,000, or by imprisonment for not more than six months, or by both.

D. Reporting of Monitoring Results

Selected analytes monitoring results (Part I) must be reported within a Discharge Monitoring Report (DMR). Monitoring results must be submitted electronically (NetDMR web-based application) no later than the 28th day of the month following the end of the monitoring period. If no discharge occurs during the entire reporting period, "No Discharge" must be reported within the respective DMR. Monitoring reports must be electronically signed and certified in accordance with Part IV.G. "Signatory Requirements" of this permit.

All other reports (e.g. special conditions, compliance actions) must be submitted in accordance to the reporting requirements of Part I of this permit. Unless otherwise approved by DEQ, all reports required herein, must be signed and certified in accordance with Part IV.G. "Signatory Requirements" of this permit and submitted to DEQ at the following address:

Montana Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, Montana 59620-0901

E. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on interim and final requirements contained in any Compliance Schedule of this permit shall

be submitted no later than 14 days following each schedule date, unless otherwise specified in this permit.

F. Additional Monitoring by the Permittee

If the permittee monitors any pollutant more frequently than required by this permit, using approved analytical methods as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report. Such increased frequency shall also be indicated.

G. Records Contents

Records of monitoring information shall include:

1. The date, exact place, and time of sampling or measurements;
2. The initials or name(s) of the individual(s) who performed the sampling or measurements;
3. The date(s) analyses were performed;
4. The time analyses were initiated;
5. The initials or name(s) of individual(s) who performed the analyses;
6. References and written procedures, when available, for the analytical techniques or methods used; and
7. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results.

H. Retention of Records

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time. Data collected on site, copies of Discharge Monitoring Reports, and a copy of this MGWPCS permit must be maintained on site during the duration of activity at the permitted location.

I. Twenty-four Hour Notice of Noncompliance Reporting

1. The permittee shall report any serious incidents of noncompliance affecting the environment as soon as possible, but no later than twenty-four (24) hours from the time the permittee first became aware of the circumstances. The report shall be made to the Water Protection Bureau at (406) 444-5546 or the Office of Disaster and Emergency Services at (406) 324-4777. The following examples are considered serious incidents:
 - a. Any noncompliance which may seriously endanger health or the environment;
 - b. Any unanticipated bypass which exceeds any effluent limitation in the permit (See Part III.G of this permit, "Bypass of Treatment Facilities");
2. A written submission shall also be provided within five days of the time that the permittee becomes aware of the circumstances. The written submission shall contain:
 - a. A description of the noncompliance and its cause;
 - b. The period of noncompliance, including exact dates and times;
 - c. The estimated time noncompliance is expected to continue if it has not been corrected; and
 - d. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
3. The Department may waive the written report on a case-by-case basis if the oral report has been received within 24 hours by the Water Protection Bureau, by phone, at (406) 444-5546.
4. Reports shall be submitted to the addresses in Part II.D of this permit, "Reporting of Monitoring Results".

J. Other Noncompliance Reporting

Instances of noncompliance not required to be reported within 24 hours shall be reported at the time that monitoring reports for Part II.D of this permit are submitted. The reports shall contain the information listed in Part II.I.2 of this permit.

K. Inspection and Entry

The permittee shall allow the head of the Department or the Director, or an authorized representative thereof, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purpose of assuring permit compliance, any substances or parameters at any location.

III. COMPLIANCE RESPONSIBILITIES

A. Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Montana Water Quality Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. The permittee shall give the Department advance notice of any planned changes at the permitted facility or of an activity which may result in permit noncompliance.

B. Penalties for Violations of Permit Conditions

The Montana Water Quality Act provides that any person who violates a permit condition of the Act is subject to civil or criminal penalties not to exceed \$25,000 per day or one year in prison, or both, for the first conviction, and \$50,000 per day of violation or by imprisonment for not more than two years, or both, for subsequent convictions. MCA 75-5-611(a) also provides for administrative penalties not to exceed \$10,000 for each day of violation and up to a maximum not to exceed \$100,000 for any related series of violations. Except as provided in permit conditions on Part III.G of this permit, "Bypass of Treatment Facilities", nothing in this permit shall be construed to relieve the permittee of the civil or criminal penalties for noncompliance.

C. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

D. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

E. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit. However, the permittee shall operate, as a minimum, one complete set of each main line unit treatment process whether or not this process is needed to achieve permit effluent compliance.

F. Removed Substances

Collected screenings, grit, solids, sludges, or other pollutants removed in the course of treatment shall be disposed of in such a manner so as to prevent any pollutant from entering any waters of the state or creating a health hazard.

G. Bypass of Treatment Facilities

1. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts III.G.2 and III.G.3 of this permit.
2. Notice:
 - a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass.
 - b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required under Part II.I of this permit, "Twenty-four Hour Reporting".
3. Prohibition of bypass:
 - a. Bypass is prohibited and the Department may take enforcement action against a permittee for a bypass, unless:
 - 1) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

- 2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - 3) The permittee submitted notices as required under Part III.G.2 of this permit.
- b. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three conditions listed above in Part III.G.3.a. of this permit.

IV. GENERAL REQUIREMENTS

A. Planned Changes

The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

1. The alteration or addition could significantly change the nature or increase the quantity of pollutant discharged. This notification applies to pollutants which are not subject to effluent limitations in the permit; or
2. There are any planned substantial changes to the existing sewage sludge management practices of storage and disposal. The permittee shall give the Department notice of any planned changes at least 180 days prior to their implementation.

B. Anticipated Noncompliance

The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

C. Permit Actions

This permit may be revoked, modified and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

D. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The application must be submitted at least 180 days before the expiration date of this permit.

E. Duty to Provide Information

The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for revoking, modifying and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Department, upon request, copies of records required to be kept by this permit.

F. Other Information

When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or any report to the Department, it shall promptly submit such facts or information

with a narrative explanation of the circumstances of the omission or incorrect submittal and why they weren't supplied earlier.

G. Signatory Requirements

All applications, reports or information submitted to the Department shall be signed and certified.

1. All permit applications shall be signed as follows:
 - a. For a corporation: by a responsible corporate officer:
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively;
 - c. For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official.

2. All reports required by the permit and other information requested by the Department shall be signed by a person described above or by a duly authorized representative of that person. A person is considered a duly authorized representative only if:
 - a. The authorization is made in writing by a person described above and submitted to the Department; and
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters. (A duly authorized representative may thus be either a named individual or an individual occupying a named position.)

3. Changes to authorization. If an authorization under Part IV.G.2 of this permit is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part IV.G.2 of this permit must be submitted to the Department prior to or together with any reports, information, or applications to be signed by an authorized representative.

4. Certification. Any person signing a document under this section shall make the following certification:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

- H. Penalties for Falsification of Reports
The Montana Water Quality Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction be punished by a fine of not more than \$25,000 per violation, or by imprisonment for not more than six months per violation, or by both.
- I. Availability of Reports
All reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department and the EPA. Permit applications, permits and effluent data shall not be considered confidential and shall also be available for public inspection.
- J. Oil and Hazardous Substance Liability
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Clean Water Act.
- K. Property or Water Rights
The issuance of this permit does not convey any property or water rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.
- L. Severability
The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held

invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

M. Transfers

This permit may be automatically transferred to a new permittee if:

1. The current permittee notifies the Department at least 30 days in advance of the proposed transfer date;
2. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them;
3. The Department does not notify the existing permittee and the proposed new permittee of an intent to revoke or modify and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part IV.M.2 of this permit; and
4. Required annual and application fees have been paid.

N. Fees

The permittee is required to submit payment of an annual fee as set forth in ARM 17.30.201. If the permittee fails to pay the annual fee within 90 days after the due date for the payment, the Department may:

1. Impose additional fee assessment(s) computed at the rates established under ARM 17.30.201; and,
2. Suspend the processing of the application for a permit or authorization or, if the nonpayment involves an annual permit fee, suspend the permit, certificate or authorization for which the fee is required. The Department may lift suspension at any time up to one year after the suspension occurs if the holder has paid all outstanding fees, including all penalties, assessments and interest imposed under this sub-section. Suspensions are limited to one year, after which the permit will be terminated.

O. Reopener Provisions

This permit may be reopened and modified (following proper administrative procedures) to include the appropriate effluent limitations (and compliance schedule, if necessary), or other appropriate requirements if one or more of the following events occurs:

1. Water Quality Standards: The water quality standards of the receiving water(s) to which the permittee discharges are modified in such a manner as to require different effluent limits than contained in this permit.
2. Water Quality Standards are Exceeded: If it is found that water quality standards or trigger values, excluding mixing zones designated by ARM 17.30.501-518, for parameters included in the permit or others, the department may modify the effluent limits or water management plan.

V. DEFINITIONS

1. **“30-day (and Monthly) Average”** other than for *E. coli* bacteria, means the arithmetic average of all individual daily discharge measurements during a consecutive 30-day period or calendar month, whichever is applicable (see Daily Discharge). The arithmetic average must not include any individual daily measurements collected on days in which discharge did not occur (e.g. flow measurements). Geometric means must be calculated for the *E. coli* bacteria parameter.
2. **“90-day (and Quarterly) Average”** other than for *E. coli* bacteria, means the arithmetic average of all individual daily discharge measurements during a consecutive 90-day period or calendar quarter, whichever is applicable (see Daily Discharge). The arithmetic average must not include any individual daily measurements collected on days in which discharge did not occur (e.g. flow measurements). Geometric means must be calculated for the *E. coli* bacteria parameter.
3. **“180-day (and Six-Month or Semi-Annual) Average”** other than for *E. coli* bacteria, means the arithmetic average of all individual daily discharge measurements collected during a consecutive 180-day period or calendar half-year, whichever is applicable (see Daily Discharge). The arithmetic average must not include any individual daily measurements collected on days in which discharge did not occur (e.g. flow measurements). Geometric means must be calculated for the *E. coli* bacteria parameter.
4. **"Act"** means the Montana Water Quality Act, Title 75, chapter 5, MCA.
5. **“Annual Average Load”** means the arithmetic mean of all calculated individual daily average loads (lbs/day) recorded during the calendar year, multiplied by 365 (days/year) for a monitored parameter.
6. **“Annual Maximum Limit”** means the maximum allowable discharge of a parameter during a calendar year (or defined 365 day period).
7. **"Best management practices" ("BMPs")** means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of state waters. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.
8. **“BOD₅”** means the five-day measure of the biochemical oxygen demand parameter.

9. **“Bypass”** means the intentional diversion of waste streams from any portion of a treatment facility.
10. **“Composite Sample”** means a sample that consists of two or more discrete aliquots. Composite samples must be flow proportioned. The composite sample must, as a minimum, contain at least four (4) samples collected over the compositing period. Unless otherwise specified, the time between the collection of the first sample and the last sample must not be less than six (6) hours nor more than 24 hours. Acceptable methods for preparation of composite samples are as follows:
 - a. Constant time interval between samples, sample volume proportional to flow rate at time of sampling;
 - b. Constant time interval between samples, sample volume proportional to total flow (volume) since last sample. For the first sample, the flow rate at the time the sample was collected may be used;
 - c. Constant sample volume, time interval between samples proportional to flow (i.e. sample taken every “X” gallons of flow); and,
 - d. Continuous collection of sample, with sample collection rate proportional to flow rate.
11. **“CFR”** means Code of Federal Regulations.
12. **“CFU”** means Colony Forming Units.
13. **“Continuous”** means a measurement occurring without interruption throughout the operating hours of the facility, except for infrequent shutdowns for maintenance process changes, or other similar activities.
14. **“Daily Discharge”** means the discharge of a parameter (or pollutant) measured during a calendar day (or any 24-hour period that reasonably represents the calendar day for purposes of sampling). For parameters with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the parameter discharged over the day. For parameters with limitations expressed in other units of measurement, the daily discharge is calculated as the arithmetic average of all measurements (or samples) collected over the day.
15. **“Daily Maximum”** means the highest individual measured daily value occurring in a defined reporting period (see Daily Discharge).
16. **“Daily Maximum Limit”** means the maximum allowable discharge of a parameter for any calendar day (see Daily Discharge).

17. **“DEQ”** means the Montana Department of Environmental Quality.
18. **“Department”** means the Montana Department of Environmental Quality.
19. **“Discharge”** means the injection, deposit, dumping, spilling, leaking, placing, or failing to remove any pollutant so that it or any constituent thereof may enter into state waters, including ground water.
20. **“Grab Sample”** means a sample which is taken from a waste stream on a one-time basis without consideration of flow rate of the effluent or without consideration for time.
21. **“Instantaneous”** means a single reading, observation, or measurement.
22. **“Load Limits”** are mass-based discharge limits expressed in units such as lbs/day.
23. **“Mixing Zone”** means a limited area of a surface water body or ground water bearing zone where initial dilution of a discharge takes place and where certain water quality standards may be exceeded.
24. **“Nondegradation”** means the prevention of a significant change in water quality that lowers the quality of high quality water for one or more parameters. Also, the prohibition of any increase in discharge that exceeds the design capacity or limitations established under or determined from a permit or approval issued by the Department prior to April 29, 1993.
25. **“RRV”** means Required Reporting Values (DEQ Circular 7).
26. **“Severe Property Damage”** means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
27. **“TSS”** means the total suspended solids parameter.
28. **“Total Inorganic Nitrogen (TIN)”** means the arithmetic sum of Nitrate + Nitrite and Ammonia.
29. **“Total Nitrogen (TN)”** means the arithmetic sum of Nitrate + Nitrite and Total Kjeldahl Nitrogen.