

**Wyoming Department of Environmental Quality
Water Quality Division
WYPDES Program**

STATEMENT OF BASIS

RENEWAL

APPLICANT NAME: EOG Y Resources, Inc.

MAILING ADDRESS: 600 17th Street, Suite 1000N
Denver, CO 80202

FACILITY LOCATION: Pumpkin Creek CS State #1, which is located in the SWNE, NENW, NWNW, SENW, NESE, NWSE and SESW of Section 36 in Township 47 North, Range 77 West, Johnson County. The produced water will be discharged to unnamed ephemeral tributaries to Pumpkin Creek (class 3B), which is tributary to the Powder River (class 2ABWW). This permit requires that discharge produced at this facility originate from the Big George Coal Seam.

NUMBER: **WY0038431**

This permit has been renewed in accordance with current WYPDES permitting requirements. All permit effluent limits and monitoring requirements have been updated in accordance with current WDEQ regulations and policy. Specific changes to the permit include the following:

1. *Revised language regarding access to the facility is in Part II.B.1 of the permit.*

Facility Description

The permittee has chosen option 2 of the coal bed methane permitting options. Under this permitting option, the produced water is immediately discharged to a class 2 or 3 receiving stream which is eventually tributary to a class 2AB perennial water of the state. The permit establishes effluent limits for the end of pipe, which are protective of all the designated uses defined in Chapter 1 of Wyoming Water Quality Rules and Regulations. This may include drinking water, game and non-game fish, fish consumption, aquatic life other than fish, recreation, agriculture, wildlife, industry and scenic value.

WDEQ has verified through field observation and through consultation with the Wyoming State Engineer's Office that no instream irrigation uses occur downstream of this facility in Wyoming. While irrigation uses exist along North Prong Pumpkin Creek and South Prong Pumpkin Creek, WDEQ has confirmed through field investigations in 2011 that no irrigation uses occur on Middle Prong Pumpkin Creek or the mainstem of Pumpkin Creek flowing to the Powder River.

No artificially-irrigated lands downstream: WDEQ currently defines artificially-irrigated lands as areas where water is intentionally applied for agricultural purposes; as identified by the presence of canals, ditches, spreader dikes, spray irrigation systems or any other constructed mechanism intended to divert water from a stream channel for application on adjacent lands. SEO records indicate that no irrigation

structures or withdrawals occur on the Powder River itself downstream of Sussex, Wyoming in Township 43 North, Range 79 West. According to the SEO, any irrigated areas along the Powder River downstream of Sussex are supplied by wells or select tributaries. The SEO also has no record of any intentional irrigation uses on the receiving tributaries downstream of this facility.

No naturally-irrigated lands downstream: WDEQ currently defines naturally-irrigated lands as areas of land, at least 50 feet wide and 20 acres in aerial extent, along stream channels that have enhanced vegetative production due to periodic natural flooding or sub-irrigation. Naturally irrigated lands are those lands where a stream channel is underlain by unconsolidated material and on which the combination of stream flow and channel geometry provides for enhanced productivity of agriculturally significant plants. Naturally irrigated lands may be identified by an evaluation of infra-red aerial photography, surficial geologic maps, wetland mapping, landowner testimony or any combination of that information. WDEQ has confirmed that no such lands exist downstream of this facility in Wyoming; either on the Powder River or on the receiving tributaries below the facility. While infra-red images do indicate wetted lands along the Powder River mainstem, closer inspection on the ground reveals a deeply incised river channel and confirms that the applied water is derived from wells and select tributaries as noted above. The lands downstream of this facility on the receiving tributaries and along the Powder River itself do not meet WDEQ's definition of naturally irrigated lands.

In greater than 120 separate WYPDES public notices in past years for this project area, WDEQ has not received any comments from downstream landowners challenging the agency's finding that no irrigation uses exist downstream of this facility in Wyoming, either as artificial irrigation or natural irrigation.

Effluent Limits

Technology Limits:

The EPA Effluent Guidelines and Standards for Oil and Gas Extraction Point Source Category (Part 435, Subpart E) predate the development of coal bed methane extraction technology; however the technology is similar enough to conventional gas extraction that, in the professional judgment of the WDEQ, this effluent limit guideline is appropriately applied to coal bed methane gas production. In addition to the federal effluent limitation guideline, Chapter 2, Appendix H of the Wyoming Water Quality Rules and Regulations contains the following limits applicable to coal bed methane discharges:

Chlorides	2,000 mg/l
Sulfates	3,000 mg/l
Total Dissolved Solids	5,000 mg/l
Specific Conductance	7,500 micromhos/cm
pH	6.5 – 9.0 standard units

Water Quality Based Effluent Limits:

Permit effluent limits are based on federal and state regulations and are effective as of the date of issuance. We have evaluated potential technology and water quality based effluent limits for this facility. Where the calculated water quality based effluent limit is more stringent than the applicable technology limit, the water quality based effluent limit is applied. The pH must remain within 6.5 and 9.0 standard units. This limit is based upon *Wyoming Water Quality Rules and Regulations*, Chapter 2. The permit also establishes a total recoverable barium limit of 1800 µg/l and a total arsenic limit of 8.4 µg/l. These limits are based on Water Quality Criteria as established in the *Wyoming Water Quality Rules and Regulations*, Chapter 1, for Human Health values. In addition, the permit establishes a dissolved iron limit of 1000 µg/l, which is intended for protection of the class 3B receiving stream. The limits established in this permit for metals and chlorides reflect the application of the anti-degradation

provisions required under *the Wyoming Water Quality Rules and Regulations, Chapter 1*. Because WDEQ has determined through review of past CBM discharge data that sulfates occur in the effluent at concentrations well below the Chapter 2 limit of 3,000 mg/l, the permit does not include an effluent limit for sulfates.

All limits described in this section are intended to protect for the above listed designated uses, on both the immediate receiving water and the perennial mainstem, and apply at the end of pipe.

Whole Effluent Toxicity (WET) Testing

WDEQ has determined that discharges from this facility have a reasonable potential to exert a toxic effect on aquatic life in the receiving stream(s). Therefore, in accordance with *40 CFR 122.44(d)(1)*, the permit contains a requirement to conduct annual static replacement toxicity tests on a grab sample of the discharge from the end of pipe. Each year during the life of this permit, a minimum of 20% of the discharging outfalls are to be sampled and tested for toxicity as described in Part I of the permit below. Since the discharge from this facility is not expected to reach a perennial water body (Powder River) on a frequent or continual basis, WDEQ has determined that only acute toxicity testing is needed to characterize the impact that this discharge may have on aquatic life in the receiving waters.

Acute WET Testing: The permittee will conduct acute 48-hour static tests using *Daphnia magna* (water flea) and acute 96-hour static tests using *Pimephales promelas* (fathead minnow). The acute whole effluent toxicity tests will be conducted in accordance with the latest procedures set forth in *40 CFR 136.3* and the "*Region VIII EPA NPDES Acute Test Conditions – Static Renewal Whole Effluent Toxicity Tests*". In the case of conflicts in method, *40 CFR 136.3* will prevail. If the results of two consecutive annual reports indicate no acute toxicity (as defined in part I of the permit below), the permittee may reduce the monitoring to annual acute toxicity testing on only one species on an alternating basis. The test procedures for alternating species shall be the same as specified above.

Monitoring Requirements

The permit requires sampling at designated water quality monitoring stations located on the receiving streams (Pumpkin Creek) and at locations on the mainstem (Powder River, class 2ABWW water) to which Pumpkin Creek is tributary. Water quality monitoring stations on the Powder River will be located upstream and downstream of this facility. Effluent samples at the designated water quality monitoring stations must be collected on a monthly sampling basis and are to be reported semiannually. If no effluent from this facility reaches the tributary monitoring station (TRIB1) during an entire sampling month, then "no discharge" is to be reported and samples need not be collected at the three water quality monitoring stations for that monthly sampling period. At the designated water quality monitoring stations, monitoring will be required for calcium, magnesium, sodium, sodium adsorption ratio, specific conductance, and total flow. Information gathered from the water quality monitoring stations may result in modification of the permit to protect existing uses on the tributary and mainstem.

The designated water quality monitoring stations are located on the tributary (Pumpkin Creek) as described in Table 1, Part I.B.12 of the following permit. Established water quality monitoring stations on the mainstem are to be located outside the mixing zone of the tributaries with the mainstem.

Results are to be reported twice-yearly and if no discharge occurs at a given outfall for an entire sampling period, then "no discharge" is to be reported for that outfall during that period. The permit also requires that an initial monitoring of the effluent be conducted within the first 60 days of discharge and the results submitted to WDEQ and the U.S. Environmental Protection Agency within 120 days of the commencement of discharge.

Powder River Assimilative Capacity for Total Dissolved Solids and Dissolved Sodium—Additional Effluent Limits and Monitoring Requirements for Direct Discharge

In order to control total dissolved solids (TDS) and dissolved sodium loads into the Powder River in accordance with the Powder River Assimilative Capacity Policy, this permit establishes actual monthly load limits for TDS and dissolved sodium for the direct discharging outfalls at this facility (001-012). These effluent limits are listed in Part I.A.1.b of the following permit. The actual monthly load limits vary by month according to background water quality concentrations within the Powder River as well as the Powder River assimilative capacity that has been allocated to the permittee. The total assimilative capacity allocated to the permittee is based on Powder River Basin lease holding information provided to the WDEQ by the permittee. The lease holding information is used to calculate the permittee’s net working interest. The net working interest calculated for the permittee is a function of total Powder River Basin coal leased by the permittee, as determined by the Wyoming Geological Survey, and ambient Powder River water quality concentrations determined by the WDEQ. The ambient Powder River water quality concentrations were calculated using United States Geological Survey (USGS) water quality data from USGS station number 06324500, Powder River at Moorhead, for the years 1990-2003.

The total Powder River assimilative capacity load allocation held by EOG Y Petroleum Corporation for operations in the Powder River basin is shown in the table below:

Month	EOG Y Petroleum Corp. TDS Total Allocation lbs/month	EOG Y Petroleum Corp. Sodium Total allocation lbs/month
January	14,564,225	936,003
February	15,885,022	1,066,842
March	5,564,633	1,047,432
April	8,509,833	711,708
May	72,821,125	2,451,437
June	65,818,241	3,170,334
July	5,221,137	1,760,578
August	0	390,001
September	0	248,019
October	8,037,803	1,693,720
November	15,690,005	1,143,045
December	9,136,990	824,574

A portion of the above total allocations have been assigned for use under this permit and are expressed as “actual monthly load limits” for this facility in Part I.A.1b. The load limits in this permit may be modified administratively by the WDEQ to the extent that the cumulative loads discharged by the permittee, from all of their permits, do not exceed the company’s total Powder River allocation for any month.

The total actual monthly load limits do not represent the total loads of TDS and dissolved sodium that may be contributed by the direct discharging outfalls each month; rather, the actual monthly load limits represent the portion of the total TDS and dissolved sodium loads contributed by the direct discharging

outfalls that the permittee will be charged assimilative capacity for. The permittee is not charged assimilative capacity for the total monthly TDS and dissolved sodium loads produced by the direct discharging outfalls; the permittee is only charged assimilative capacity for the portions of the total loads that are above what the loads would be should all effluent discharged from the direct discharging outfalls be treated to ambient Powder River concentrations for TDS and dissolved sodium. This approach is in accordance with the Powder River Assimilative Capacity Policy.

The permittee will be required to calculate the actual monthly load for the direct discharging outfalls for each month. The actual monthly load from the direct discharging outfalls, for each month, must be less than or equal to the actual monthly load limits established in Part I.A.1.b of the permit. The permittee may adjust outfall flow as desired from the direct discharging outfalls, as long as the actual monthly load limits can be met, and provided the permittee can meet all other effluent limits and requirements for these outfalls established in Part I of the permit. The permittee must monitor the direct discharging outfalls continuously for flow and monthly for TDS and dissolved sodium, and must show that, for each month, at such flow rates and water quality, that they are achieving compliance with the total actual monthly load limits for these outfalls.

Calculation of Actual Monthly Loads From Direct Discharging Outfalls (001-012): The dissolved sodium and TDS actual monthly loads for the direct discharging outfalls will be calculated using the equation below (see also Figure 1 for further explanation of equation):

Equation 1: $[(V \times C_{di}) - (V \times C_{pr})] \times 8.34 \text{ (lb/MG)/mg/l} = \text{Actual Monthly Load}$

where:

V = total volume, in **million gallons (MG)** discharged from the outfall for the given month. This permit requires that flow be monitored continuously at the outfall. The daily flow volumes (as represented from the average daily flow rates in MGD) from the outfall will be summed to determine the total monthly flow volume for the outfall.

C_{di} = concentration, in **mg/l**, of TDS or dissolved sodium in the discharge. The permittee will be required to monitor once monthly at the outfall for both TDS and dissolved sodium. **C_{di}** will represent the monthly sampled concentration of the appropriate constituent (TDS or dissolved sodium).

C_{pr} = ambient concentration of TDS or dissolved sodium of Powder River, in **mg/l**. Ambient concentration values have been pre-determined by the WDEQ using USGS data. For the months of August and September, when sufficient assimilative capacity does not exist within the Powder River to allow discharges from this facility at concentrations above ambient, the TDS ambient concentration is set at Montana standards (TDS = 1,524 mg/l, which is equivalent to EC 2,000 micromhos/cm). The permittee will choose the appropriate value for **C_{pr}** from the following table, also listed in Part I.A.1.b of the following permit:

Month	C _{pr} Constant Values	
	Total Dissolved Solids (mg/l)	Dissolved Sodium (mg/l)
January	1,345	212
February	1,444	194
March	1,359	186

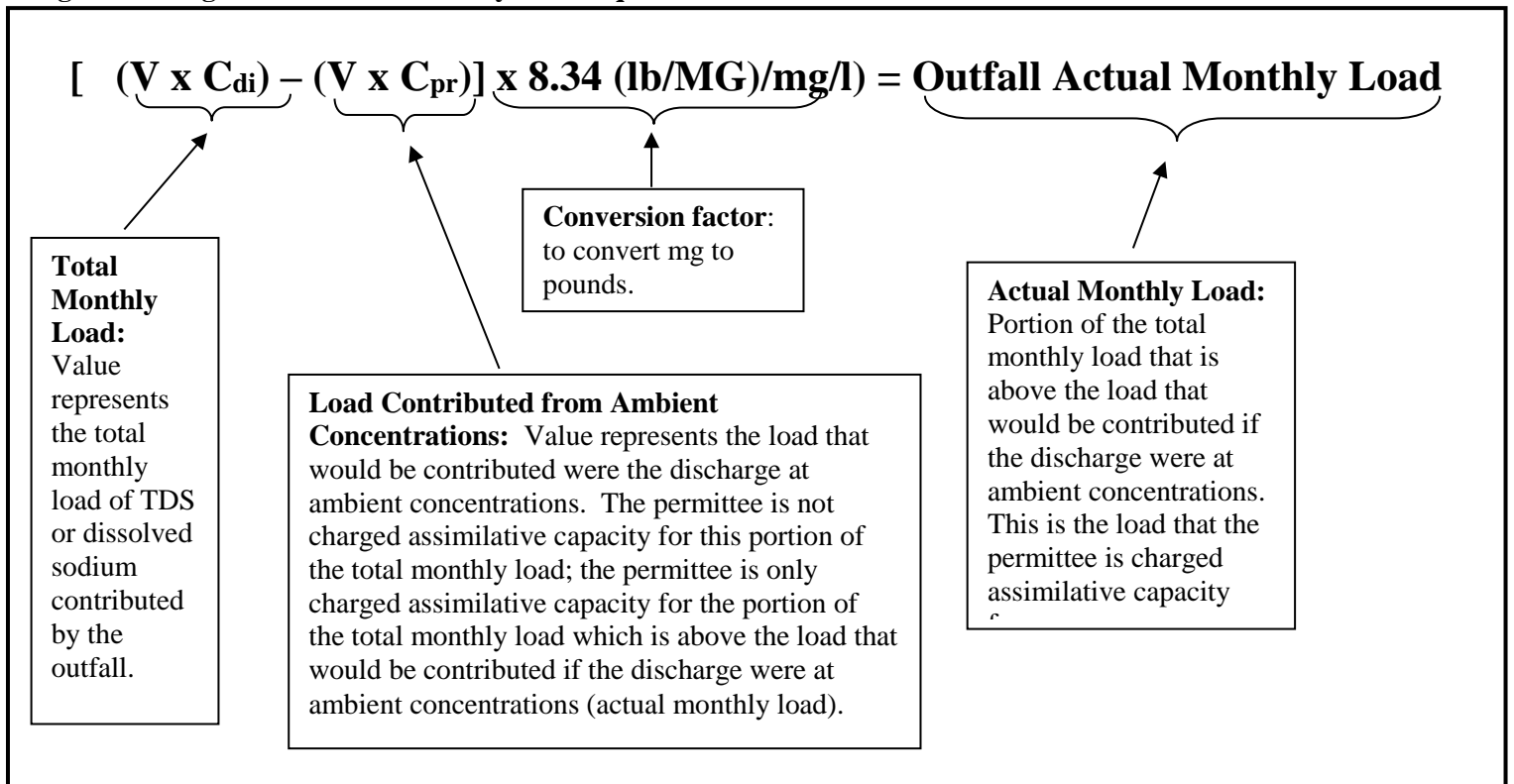
Month	C _{pr} Constant Values	
	Total Dissolved Solids (mg/l)	Dissolved Sodium (mg/l)
April	1,161	166
May	956	202
June	860	160
July	1,369	180
August	1,524	250
September	1,524	237
October	1,388	224
November	1,446	213
December	1,482	211

8.34 (lb/MG)/(mg/l) is a conversion factor to convert mg to pounds in the equation.

Actual Monthly Load = the actual monthly load of TDS or dissolved sodium, in pounds, contributed by outfall 002 for a given month.

The permittee will be required to calculate and report the actual monthly loads of sodium and TDS contributed by the direct discharging outfalls for each month. The actual monthly loads from the direct discharging outfalls for each month must be less than or equal to the actual monthly load limits established in Part I.A.1.b of the following permit.

Figure 1. Diagram of Actual Monthly Load Equation



Other Permit Requirements

There shall be no discharge of floating solids or visible foam in other than trace amounts, nor shall the discharge cause formation of visible deposits of iron, hydrocarbons or any other constituent on the bottom or shoreline of the receiving water. In addition, erosion control measures will be implemented to prevent significant damage to or erosion of the receiving water channel at the point of discharge.

The discharge of wastewater and the effluent limits that are established in this permit have been reviewed to ensure that the levels of water quality necessary to protect the designated uses of the receiving waters are maintained and protected. An antidegradation review has been conducted and verifies that the permit conditions, including the effluent limitations established, provide a level of protection to the receiving water consistent with the antidegradation provisions of Wyoming surface water quality standards.

Self monitoring of effluent quality and quantity is required on a regular basis with reporting of results as outlined in the permit. The permit is scheduled to expire on March 31, 2023.

Renewal:

Jason Thomas

Water Quality Division

Department of Environmental Quality

Drafted: April 3, 2018

AUTHORIZATION TO DISCHARGE UNDER THE
WYOMING POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, (hereinafter referred to as "the Act"), and the Wyoming Environmental Quality Act,

EOG Y Resources, Inc.

is authorized to discharge from the wastewater treatment facilities serving the

Pumpkin Creek CS State #1

located in

SWNE, NENW, NWNW, SENW, NESE, NWSE and SESW of Section 36 in Township 47 North,
Range 77 West, Johnson County,

to receiving waters named

unnamed ephemeral tributaries to Pumpkin Creek (class 3B), which is tributary to the Powder River
(class 2ABWW),

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II
and III hereof.

This permit renewal shall become effective on the date of issuance below.

This permit and the authorization to discharge shall expire at midnight March 31, 2023.

Kevin Frederick, Administrator
Water Quality Division

Todd Parfitt, Director
Department of Environmental Quality

Date of Issuance: _____

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Effective **upon the date of issuance**, and lasting through March 31, 2023, the quality of effluent discharged by the permittee shall, at a minimum, meet the limitations set forth below. The permittee is authorized to discharge from outfall serial numbers 001-012.

1a. Effluent Limits: The quality of the effluent discharged by this facility shall, at a minimum, meet the limitations set forth below at the end of pipe.

<u>Effluent Characteristic</u>	<u>Daily Maximum Outfall</u>
Chlorides, mg/l	150
Dissolved Iron, µg/l	1000
pH, standard units	6.5 – 9.0
Specific Conductance, micromhos/cm	7500
Total Recoverable Arsenic, µg/l	8.4
Total Recoverable Barium, µg/l	1800

The permit requires that the produced water being discharged by this facility originate in one or more of the following formations: Big George Coal Seam.

The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units in any single grab sample.

Information gathered from the water quality monitoring stations and irrigation monitoring points may result in modification of the permit, in accordance with Part III.A.3 of the permit below, to protect existing uses on the tributary and the mainstem.

There shall be no discharge of floating solids or visible foam in other than trace amounts, nor shall the discharge cause formation of a visible sheen or visible hydrocarbon deposits on the bottom or shoreline of the receiving water.

All waters shall be discharged in a manner to prevent erosion, scouring, or damage to stream banks, stream beds, ditches, or other waters of the state at the point of discharge. In addition, there shall be no deposition of substances in quantities which could result in significant aesthetic degradation, or degradation of habitat for aquatic life, plant life or wildlife; or which could adversely affect public water supplies or those intended for agricultural or industrial use.

The permittee is authorized to discharge directly to the receiving stream from the outfalls at this facility, provided that the permittee can comply with the actual monthly total dissolved solids and dissolved sodium load limits for the outfalls, established to comply with requirements for direct discharges under the Powder River Assimilative Capacity Allocation and Control Process.

- 1b. Actual Monthly Load Limits— Applies to all outfalls (direct discharge) :** The permittee must discharge effluent from the direct discharging outfalls at concentrations for total dissolved solids and dissolved sodium and at such flow rates so as not to exceed the actual monthly load limits established below:

Actual Monthly Load Limits

<u>Effluent Characteristic</u>	<u>Actual Monthly Load (lb)from outfalls 001-012</u>
Dissolved Sodium, lb/mo. (January)	449,345
Dissolved Sodium, lb/mo. (February)	512,617
Dissolved Sodium, lb/mo. (March)	502,849
Dissolved Sodium, lb/mo. (April)	341,675
Dissolved Sodium, lb/mo. (May)	1,176,880
Dissolved Sodium, lb/mo. (June)	1,522,006
Dissolved Sodium, lb/mo. (July)	845,214
Dissolved Sodium, lb/mo. (August)	0
Dissolved Sodium, lb/mo. (September)	0
Dissolved Sodium, lb/mo. (October)	813,117
Dissolved Sodium, lb/mo.(November)	548,751
Dissolved Sodium, lb/mo. (December)	395,860
Total Dissolved Solids, lb/mo. (January)	6,203,909
Total Dissolved Solids, lb/mo. (February)	7,740,959
Total Dissolved Solids, lb/mo. (March)	746,175
341675Total Dissolved Solids, lb/mo. (April)	3,631,154
Total Dissolved Solids, lb/mo. (May)	26,435,898
Total Dissolved Solids, lb/mo. (June)	19,641,239
Total Dissolved Solids, lb/mo. (July)	1,279,157
Total Dissolved Solids, lb/mo. (August)	0
Total Dissolved Solids, lb/mo. (September)	0
Total Dissolved Solids, lb/mo. (October)	3,624,277
Total Dissolved Solids, lb/mo. (November)	7,530,518
Total Dissolved Solids, lb/mo. (December)	4,008,024

2. **Discharges shall be monitored by the permittee as specified below:**

a. Monitoring of the initial discharge:

The following requirement for initial monitoring at the outfalls applies to any outfalls for which this sampling has not already been done: Within 60 days of commencement of discharge, a sample shall be collected from each outfall and analyzed for all constituents specified below, at the required detection limits. Within 120 days of commencement of discharge, a summary report, including copies of the laboratory analysis reports, on the produced water must be submitted to the Wyoming Department of Environmental Quality and the U.S. EPA Region 8 at the addresses listed below. This summary report must include the results and detection limits for each of the constituents specified below. In addition, the report must include written notification of the established location of the discharge point (refer to Part I.B.11). This notification must include a confirmation that the location of the established discharge point(s) is within 1,510 feet of the location of the identified discharge point(s), is within the same drainage, and discharges to the same landowner's property as identified on the original application form. The legal description and location in decimal degrees of the established discharge point(s) must also be provided. After receiving the monitoring results for the initial discharge, the effluent limits and monitoring requirements established in this permit may be modified.

Parameter* (See notes following the table on chemical states)	Required Detection Limits and Required Units
Alkalinity, Total	1 mg/l as CaCO ₃
Aluminum, Dissolved	50 µg/l
Arsenic, Total Recoverable	1 µg/l
Barium, Total Recoverable	100 µg/l
Bicarbonate	10 mg/l
Cadmium, Dissolved	5 µg/l
Calcium, Dissolved	50 µg/l, report as mg/l
Chlorides	5 mg/l
Copper, Dissolved	10 µg/l
Dissolved Solids, Total	5 mg/l
Fluoride, Dissolved	100 µg/l
Hardness, Total	10 mg/l as CaCO ₃
Iron, Dissolved	50 µg/l
Lead, Dissolved	2 µg/l
Magnesium, Dissolved	100 µg/l, report as mg/l
Mercury, Dissolved	1 µg/l
pH	to 0.1 pH unit
Radium 226, Total Recoverable	0.2 pCi/l
Radium 228, Total Recoverable	0.2 pCi/l
Selenium, Total Recoverable	5 µg/l
Sodium Adsorption Ratio	Calculated as unadjusted ratio
Sodium, Dissolved	100 µg/l, report as mg/l
Specific Conductance	5 micromhos/cm

<u>Parameter*</u> (See notes following the table on chemical states)	<u>Required Detection Limits and Required Units</u>
Sulfates	10 mg/l
Zinc, Dissolved	50 µg/l

Initial monitoring reports are to be sent to the following addresses:

Wyoming Department of Environmental Quality
Water Quality Division
200 West 17th Street
Cheyenne, WY 82002

b. Routine monitoring End of Pipe – Outfalls 001-012

For the duration of the permit, at a minimum, samples for the constituents described below shall be collected at the indicated frequencies. The first routine monitoring for the time frame during which the monitoring of initial discharge occurs will, at a minimum, consist of flow measurements for the duration of the six-month monitoring time frame. Monitoring will be based on semi-annual time frames, from January through June, and from July through December.

<u>Parameter</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Bicarbonate (mg/l)	Annually	Grab
Dissolved Calcium (mg/l)	Quarterly	Grab
Chloride (mg/l)	Annually	Grab
Dissolved Magnesium (mg/l)	Quarterly	Grab
pH (standard units)	Once Every Six Months	Grab
Dissolved Sodium (mg/l)	Quarterly	Grab
Sodium Adsorption Ratio (unadjusted)	Quarterly	Calculated
Specific Conductance (micromhos/cm)	Quarterly	Grab
Total Alkalinity (mg/l)	Annually	Grab
Total Recoverable Arsenic (µg/l)	Annually	Grab
Total Recoverable Barium (µg/l)	Annually	Grab
Total Flow – (MGD)	Monthly	Continuous
Dissolved Iron (µg/l)	Annually	Grab
Total Dissolved Solids (mg/l)	Quarterly	Grab

Samples taken in compliance with the monitoring requirements specified above shall be

taken at the following location(s): At the outfall of the final treatment unit which is located out of the natural drainage and prior to admixture with diluent waters.

c. **Additional Routine Monitoring End of Pipe; Outfalls 001-012 (direct discharge)**

For the duration of the permit, at a minimum, samples for the constituents described below shall be collected and reported at the indicated frequencies.

<u>Parameter</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	<u>Report Frequency</u>
Total Dissolved Solids actual load (lb/mo.), 001-012	Monthly	Calculated	Monthly
Dissolved Sodium actual load (lb/mo.), 001-012	Monthly	Calculated	Monthly
Dissolved Sodium (monthly flow-weighted average concentration (mg/L), 001-012	Monthly	Calculated	Monthly
Total Dissolved Solids (monthly flow-weighted average concentration (mg/L), 001-012	Monthly	Calculated	Monthly

*The permittee will calculate the actual monthly loads from the direct discharging outfalls for TDS and dissolved sodium using the following formula:

$$[(V \times C_{di}) - (V \times C_{pr})] \times 8.34 \text{ (lb/MG)/mg/l} = \text{Outfall Actual Monthly Load (lb)}$$

where:

V = total volume, in million gallons (MG) discharged from the outfall for the given month. This permit requires that flow be monitored continuously at the outfall. The daily flow volumes (as represented from the average daily flow rates in MGD) from the outfall will be summed to determine the total monthly flow volume for the outfall.

C_{di} = concentration, in mg/l, of TDS or dissolved sodium in the discharge. The permittee is required to monitor once monthly at each outfall for the given parameter. **C_{di}** will represent this monthly sampled concentration.

C_{pr} = ambient concentration of TDS or dissolved sodium of Powder River, in **mg/l**. The permittee will choose the appropriate value, based on the month and constituent, for **C_{pr}** from the following table:

Month	C _{pr} Constant Values	
	Total Dissolved Solids (mg/l)	Dissolved Sodium (mg/l)
January	1,345	212
February	1,444	194
March	1,359	186
April	1,161	166
May	956	202
June	860	160
July	1,369	180
August	1,524	250
September	1,524	237
October	1,388	224
November	1,446	213
December	1,482	211

Actual monthly loads from the direct discharging outfalls must be equal to or less than the actual monthly load limits established in Part I.A.1.b of the permit; actual monthly loads from the direct discharging outfalls that are greater than the actual monthly load limits established in Part I.A.1.b of the permit will constitute a violation of this permit.

Water Quality Monitoring Stations (TRIB1, UPR and DPR)

For the duration of the permit, at a minimum, samples for the constituents described below shall be collected at the indicated frequencies. Monitoring will be based on monthly time frames, and reported semiannually.

<u>Parameter</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Dissolved Calcium (mg/l)	Monthly	Grab
Dissolved Magnesium (mg/l)	Monthly	Grab
Dissolved Sodium (mg/l)	Monthly	Grab
Sodium Adsorption Ratio (calculated as unadjusted ratio)	Monthly	Calculated
Specific Conductance (micromhos/cm)	Monthly	Grab
Flow* (MGD)	Monthly	Instantaneous

*The permittee is only required to monitor and report flow at the tributary monitoring station on the unnamed ephemeral tributary (TRIB1). The permittee is not required to monitor or report

flow data at the mainstem water quality monitoring stations (UPR and DPR), see Table 1, Part I.B.13 of the permit below for water quality monitoring station location descriptions.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: designated water quality monitoring stations identified as TRIB1, UPR, and DPR in Table 1, Part I.B.13. Established water quality monitoring stations on the mainstem are to be located outside the mixing zone with the tributary and the mainstem. Monthly water quality samples are to be collected at all three water quality monitoring stations when effluent from this CBM facility reaches the TRIB1 station on two unnamed ephemeral tributaries of the Powder River. If flow occurs at the TRIB1 station during a given monthly monitoring period, but this CBM facility did not contribute to that flow, the permittee will report “did not contribute” in the discharge monitoring reports for that monthly monitoring period. Under such circumstances, sampling is not required at the three water quality monitoring stations, and it will be the responsibility of the permittee to demonstrate that the effluent from this facility did not contribute to the flow occurring at the TRIB1 station. If no flow at all occurs at the TRIB1 station for an entire monthly monitoring period, then “no flow” is to be reported and samples need not be collected at the three water quality monitoring stations for that monthly monitoring period.

At the designated water quality monitoring stations, monitoring will be required for calcium, magnesium, sodium, sodium adsorption ratio and specific conductance. Information gathered from the water quality monitoring stations may result in modification of the permit to protect existing uses on the tributary and mainstem.

c. Effluent Limitations (Toxic Pollutants)

Effective immediately upon issuance of this permit modification, there shall be no acute or chronic toxicity occurring in the effluent from this facility.

d. Whole Effluent Testing (Acute)

Upon issuance of this permit, the permittee shall, at least once annually, conduct acute static replacement toxicity tests on a grab sample of the discharge. If initial monitoring of the effluent is required for this permit (within 60 days of commencement of discharge), then the first annual acute toxicity test is to be conducted at that time. At a minimum, 20 percent of all discharging outfalls that immediately flow to Class 3 waters and 20 percent of all discharging outfalls that immediately flow to Class 2 waters are to be sampled and tested annually for acute whole effluent toxicity (WET). Each year, a different 20 percent minimum portion of the discharging outfalls is to be sampled and tested for acute whole effluent toxicity. Consecutive yearly samples may not be collected from an identical outfall unless the outfall is the only discharging outfall that complies with the criteria listed above. The permittee may select the outfall(s) that will be sampled each year unless the permit issuing authority specifically identifies which outfalls must be sampled. The permittee must also provide written notification to the permit issuing authority at least two weeks prior to WET-related sampling. The written notification will specify which outfall(s) are discharging and which outfalls will be selected and sampled for the WET test.

The replacement static toxicity tests shall be conducted in accordance with the procedures set forth in 40 CFR 136.3 and the “*Region VIII EPA NPDES Acute Test Conditions – Static Renewal Whole Effluent Toxicity Tests*”. In the case of conflicts in method, 40 CFR 136.3 will prevail. The permittee shall conduct an acute 48-hour static toxicity test using *Daphnia magna* and an acute 96-hour static toxicity test using *Pimephales*

promelas. All tests will be conducted utilizing a multi-dilution series consisting of at least five (5) concentrations and a control as defined below:

100% effluent
85% effluent
67% effluent
50% effluent
25% effluent
control (or 0% effluent)

All tests will be conducted utilizing a minimum of 5 replicates for each test. In the event of inconclusive test results, the WDEQ reserves the right to require the permittee to perform additional tests at alternate dilutions and/or replicates. The WDEQ also reserves the right to require the submission of all information regarding all initiated tests, regardless of whether the tests were carried to completion or not.

Acute toxicity occurs when 50 percent or more mortality is observed for either species at any effluent concentration at any outfall. If acute toxicity occurs at any outfall during a sampling period, then WDEQ will assume that all outfalls, which have not yet been sampled, exhibit similar acute toxicity characteristics as well.

If more than 10 percent control mortality occurs, the test is not valid. The test shall be repeated until satisfactory control survival is achieved.

If acute toxicity occurs, an additional test on the failing outfall(s) shall be initiated within two (2) weeks of the date of when the permittee learned of the test failure. If only one species fails, retesting may be limited to this species. Should acute toxicity occur in the second test, the Toxicity Identification Evaluation (TIE) and Toxicity Reduction Evaluation (TRE) process described below shall be implemented on a schedule established by the DEQ.

Annual test results shall be reported on a Discharge Monitoring Report (DMR) that must be submitted by February 15th of each year. The format for the report shall be consistent with the latest revision of the "Region VIII Guidance for Acute Whole Effluent Reporting", and shall include all chemical and physical data as specified.

If the results of two consecutive annual reports indicate no acute toxicity for all sampled outfalls, the permittee may reduce the monitoring to annual acute toxicity testing on only one species on an alternating basis. The test procedures for alternating species shall be the same as specified above.

- e. Toxicity Identification Evaluation (TIE) and Toxicity Reduction Evaluation (TRE)
Should toxicity be detected in the permittee's discharge, a TIE-TRE shall be undertaken by the permittee to establish the cause of the toxicity, locate the source(s) of the toxicity, and develop control of, or treatment for the toxicity. Failure to initiate, or conduct an adequate TIE-TRE, or delays in the conduct of such test, shall not be considered a justification for noncompliance with the whole effluent toxicity limits contained in this permit. A TRE plan needs to be submitted to the permitting authority within 45 days after confirmation of the continuance of effluent toxicity.

If acceptable to the permit issuing authority, and if in conformance with current regulations, this permit may be reopened and modified to incorporate TRE conclusions relating to additional numerical limitations, a modified compliance schedule, and/or modified whole effluent protocol.

B. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this permit and, unless otherwise specified, before the effluent joins or is diluted by any other waste stream, body of water, or substance. Monitoring points shall not be changed without notification to and approval by, the permit issuing authority.

2. Reporting

Results of initial monitoring, including the date the discharge began, shall be summarized and submitted with a copy of the laboratory analysis report for each outfall, clearly marked with permit and outfall numbers, to the state water pollution control agency at the address below received no later than 120 days after the commencement of discharge.

Results of routine end of pipe and containment unit monitoring during the previous six (6) months shall be summarized and reported semiannually on a Discharge Monitoring Report Form (DMR). If the discharge is intermittent, the date the discharge began and ended must be included. The information submitted on the first semiannual DMR shall contain a summary of flow measurements and any additional monitoring conducted subsequent to the submittal of the initial monitoring report. When required, whole effluent toxicity (biomonitoring) results must be reported on the most recent version of *EPA Region VIII's Guidance for Whole Effluent Reporting*. Monitoring reports must be submitted to the state water pollution control agency at the following address received no later than the 15th day of the second month following the completed reporting period. The first report following the issuance of this permit renewal is due on August 15, 2018.

Legible copies of these, and all other reports required herein, shall be signed and certified in accordance with the Signatory Requirements contained in Part II.A.11.

Wyoming Department of Environmental Quality
Water Quality Division
200 West 17th Street
Cheyenne, WY 82002
Telephone: (307) 777-7781

If no discharge occurs during the reporting period, "no discharge" shall be reported. If discharge is intermittent during the reporting period, sampling shall be done while the facility is discharging.

3. Definitions

a. The "monthly average" shall be determined by calculating the arithmetic mean

(geometric mean in the case of fecal coliform) of all composite and/or grab samples collected during a calendar month.

- b. The "weekly average" shall be determined by calculating the arithmetic mean (geometric mean in the case of fecal coliform) of all composite and/or grab samples collected during any week.
- c. The "daily maximum" shall be determined by the analysis of a single grab or composite sample.
- d. "MGD", for monitoring requirements, is defined as million gallons per day.
- e. "Net" value, if noted under Effluent Characteristics, is calculated on the basis of the net increase of the individual parameter over the quantity of that same parameter present in the intake water measured prior to any contamination or use in the process of this facility. Any contaminants contained in any intake water obtained from underground wells shall not be adjusted for as described above and, therefore, shall be considered as process input to the final effluent. Limitations in which "net" is not noted are calculated on the basis of gross measurements of each parameter in the discharge, irrespective of the quantity of those parameters in the intake waters.
- f. A "composite" sample, for monitoring requirements, is defined as a minimum of four grab samples collected at equally spaced two hour intervals and proportioned according to flow.
- g. An "instantaneous" measurement for monitoring requirements is defined as a single reading, measurement, or observation.
- h. A "pollutant" is any substance or substances which, if allowed to enter surface waters of the state, causes or threatens to cause pollution as defined in the Wyoming Environmental Quality Act, Section 35-11-103.
- i. "Total Flow" is the total volume of water discharged, measured on a continuous basis and reported as a total volume for each month during a reporting period. The accuracy of flow measurement must comply with Part III.A.1.

4. Test Procedures

Test procedures for the analysis of pollutants, collection of samples, sample containers, sample preservation, and holding times, shall conform to regulations published pursuant to 40 CFR, Part 136, unless other test procedures have been specified in this permit.

5. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date and time of sampling;
- b. The dates and times the analyses were performed;
- c. The person(s) who performed the analyses and collected the samples;

- d. The analytical techniques or methods used; and
- e. The results of all required analyses including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine the results.

6. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Form. Such increased frequency shall also be indicated.

7. Records Retention

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 administrator at any time. Data collected on site, copies of Discharge Monitoring Reports and a copy of this WYPDES permit must be maintained on site during the duration of activity at the permitted location.

8. Penalties for Tampering

The 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 \$10,000 per violation, or by imprisonment for not more than two years per violation, or both.

9. 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.

10. Facility Identification

All facilities discharging produced water shall be clearly identified with an all-weather sign posted at each outfall, and at the outlet of each receiving reservoir listed in Table 1 below. This sign shall, at a minimum, convey the following information:

- a. The name of the company, corporation, person(s) who holds the discharge permit, and the WYPDES permit number;
- b. The contact name and phone number of the person responsible for the records associated with the permit;
- c. The name of the facility (as identified in this WYPDES permit). In addition, all outfall signs will include the outfall number. Reservoir signs are separate from

the outfall signs, and are to be located at the outlet of the reservoir. Reservoir signs must include the information listed in items a and b above, in addition to the reservoir name, as identified in Table 1 below.

11. Identification and Establishment of Discharge Points

According to 40 CFR 122.21(k)(1), the permittee shall identify the expected location of each discharge point on the appropriate WYPDES permit application form. The location of the discharge point must be identified to within an accuracy of 15 seconds. This equates to a distance of 1,510 feet.

In order for the permit not to be subjected to additional public notice, the location of the established discharge point must be within 1,510 feet of the location of the discharge point originally identified on the permit application. In addition, the discharge must be within the same drainage and must discharge to the same landowner's property as identified on the original application form. If the three previously stated requirements are not satisfied, modification of the discharge point location(s) constitutes a major modification of the permit as defined in Part I.B.12. The permittee shall provide written notification of the establishment of each discharge point in accordance with Part I.A.2.a above.

12. Location of Discharge Points and Monitoring Locations

As of the date of permit issuance, authorized points of discharge were as follows:

SEE TABLE 1 FOR A LIST OF OUTFALL AND MONITORING LOCATIONS

Table 1: WY0038431 Pumpkin Creek CS State #1

Out-fall	Qtr/Qtr	SECTION		RNG (W)	LATITUDE*	LONGITUDE*	Drainage / Description
001	SWNE	36	47	77	44.006733	-106.057633	Powder River via Pumpkin Creek via unnamed ephemeral tributary via direct discharge
002	SWNE	36	47	77	44.008517	-106.058050	Powder River via Pumpkin Creek via unnamed ephemeral tributary via direct discharge
003	NENW	36	47	77	44.009433	-106.064700	Powder River via Pumpkin Creek via unnamed ephemeral tributary via direct discharge
004	NWNW	36	47	77	44.009267	-106.068617	Powder River via Pumpkin Creek via unnamed ephemeral tributary via direct discharge
005	NWNW	36	47	77	44.008034	-106.068076	Powder River via Pumpkin Creek via unnamed ephemeral tributary via direct discharge
006	SEnw	36	47	77	44.005900	-106.062883	Powder River via Pumpkin Creek via unnamed ephemeral tributary via direct discharge
007	SEnw	36	47	77	44.005133	-106.064783	Powder River via Pumpkin Creek via unnamed ephemeral tributary via direct discharge
008	NESE	36	47	77	44.002100	-106.051317	Powder River via Pumpkin Creek via unnamed ephemeral tributary via direct discharge
009	NWSE	36	47	77	44.002400	-106.056250	Powder River via Pumpkin Creek via unnamed ephemeral tributary via direct discharge
010	SEnw	36	47	77	44.005133	-106.063733	Powder River via Pumpkin Creek via unnamed ephemeral tributary via direct discharge
011	SESW	36	47	77	43.997200	-106.063075	Powder River via Pumpkin Creek via unnamed ephemeral tributary via direct discharge
012	NESE	36	47	77	44.000417	-106.052983	Powder River via Pumpkin Creek via unnamed ephemeral tributary via direct discharge
UPR	SWSW	19	47	77	44.027254	-106.167925	Upstream Powder River monitoring station (above Pumpkin Creek)
DPR	SENE	24	47	78	44.031875	-106.172835	Downstream Powder River monitoring station (below Pumpkin Creek)
TRIB1	NESW	19	47	77	44.028215	-106.160054	Tributary Water Quality Monitoring Station on Pumpkin Creek

Requests for modification of the list below will be processed as follows. If the requested modification satisfies the definition of a minor permit modification as defined in 40 CFR 122.63 modifications will not be required to be advertised in a public notice. A minor modification constitutes a correction of a typographical error, increase in monitoring and/or reporting, revision to an interim compliance schedule date, change in ownership, revision of a construction schedule for a new source discharger, deletion of

permitted outfalls, and/or the incorporation of an approved local pretreatment program.

A request for a minor modification must be initiated by the permittee by completing the form titled Wyoming Pollutant Discharge Elimination System Permit Modification Application For Coal Bed Methane. Incomplete application forms will be returned to the applicant.

The outfalls listed in the above table may be moved from the established location without submittal of a permit modification application provided all of the following conditions are satisfied:

1. The new outfall location is within 2640 feet of the established outfall location.
2. The new outfall location is within the same drainage or immediate permitted receiving waterbody.
3. There is no change in the affected landowners.
4. Notification of the change in outfall location must be provided to the WYPDES Permits Section on a form provided by the WQD Administrator within 10 days of the outfall location change. The form must be provided in duplicate and legible maps showing the previous and new outfall location must be attached to the form.

Moving an outfall location without satisfying the four above listed conditions will be considered a violation of this permit and subject to full enforcement authority of the WDQ.

An outfall relocation as described above will not be allowed if the new outfall location is less than one mile from the confluence of a Class 2 waterbody and the dissolved iron limits established in the permit for the outfall are based upon Class 3 standards.

PART II

A. MANAGEMENT REQUIREMENTS

1. Changes

The permittee shall give notice to the administrator of the Water Quality Division as soon as possible of any physical alterations or additions to the permitted facility. Notice is required when:

- a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source as determined in 40 CFR 122.29 (b); or
- b. The alteration or addition could change the nature or increase the quantity of pollutants discharged.

2. Noncompliance Notification

- a. The permittee shall give advance notice of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- b. The permittee shall report any noncompliance which may endanger health or the environment as soon as possible, but no later than 24 hours from the time the permittee first became aware of the circumstances. The report shall be made to the Water Quality Division, Wyoming Department of Environmental Quality at (307) 777-7781.
- c. For any incidence of noncompliance, including noncompliance related to non-toxic pollutants or non-hazardous substances, a written submission shall be provided within five (5) days of the time that the permittee becomes aware of the noncompliance circumstance.

The written submission shall contain:

- (1) A description of the noncompliance and its cause;
 - (2) The period of noncompliance, including exact dates and times;
 - (3) The estimated time noncompliance is expected to continue if it has not been corrected; and
 - (4) Steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance.
- d. The following occurrences of unanticipated noncompliance shall be reported by telephone to the Water Quality Division, WYPDES Program (307) 777-7781 as soon as possible, but no later than 24 hours from the time the permittee first became aware of the circumstances.
 - (1) Any unanticipated bypass which exceeds any effluent limitation in the permit;

- (2) Any upset which exceeds any effluent limitation in the permit; or
 - (3) Violation of a maximum daily discharge limitation for any toxic pollutants or hazardous substances, or any pollutants specifically identified as the method to control a toxic pollutant or hazardous substance listed in the permit.
- e. The administrator of the Water Quality Division may waive the written report on a case-by-case basis if the oral report has been received within 24 hours by the Water Quality Division, WYPDES Program (307) 777-7781.
 - f. Reports shall be submitted to the Wyoming Department of Environmental Quality at the address in Part I under Reporting.
 - g. The permittee shall report all instances of noncompliance that have not been specifically addressed in any part of this permit at the time the monitoring reports are due.

3. Facilities Operation

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 the 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.

4. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to waters of the state resulting from noncompliance with any effluent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

5. Bypass of Treatment Facilities

- a. Bypass means the intentional diversion of waste streams from any portion of a treatment facility.
- b. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs c. and d. of this section. Return of removed substances to the discharge stream shall not be considered a bypass under the provisions of this paragraph.
- c. Notice:
 - (1) Anticipated bypass. If the permittee knows in advance of the need for a

bypass, it shall submit prior notice at least 60 days before the date of the bypass.

- (2) Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required under Part II.A.2.

d. Prohibition of bypass.

- (1) Bypass is prohibited and the administrator of the Water Quality Division may take enforcement action against a permittee for a bypass, unless:
 - (a) The bypass was unavoidable to prevent loss of life, personal injury or severe property damage;
 - (b) 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 to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (c) The permittee submitted notices as required under paragraph c. of this section.

- e. The administrator of the Water Quality Division may approve an anticipated bypass, after considering its adverse effects, if the administrator determines that it will meet the three conditions listed above in paragraph d. (1) of this section.

6. Upset Conditions

- a. Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improper designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- b. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of paragraph c. of this section are met.
- c. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated;
 - (3) The permittee submitted notice of the upset as required under Part II.A.2; and

(4) The permittee complied with any remedial measures required under Part II.A.4.

d. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

7. Removed Substances

Solids, sludges, filter backwash or other pollutants removed in the course of treatment or control of wastewaters or intake waters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering waters of the state.

8. Power Failures

In order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall either:

- a. In accordance with a schedule of compliance contained in Part I, provide an alternative power source sufficient to operate the wastewater control facilities; or
- b. If such alternative power source as described in paragraph a. above is not in existence and no date for its implementation appears in Part I, take such precautions as are necessary to maintain and operate the facility under its control in a manner that will minimize upsets and insure stable operation until power is restored.

9. Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the federal act and the Wyoming Environmental 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 administrator of the Water Quality Division advance notice of any planned changes at the permitted facility or of any activity which may result in permit noncompliance.

10. 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.

11. Signatory Requirements

All applications, reports or information submitted to the administrator of the Water Quality Division shall be signed and certified.

- a. All permit applications shall be signed as follows:
 - (1) For a corporation: by a responsible corporate officer;
 - (2) For a partnership or sole proprietorship: by a general partner or the

proprietor, respectively;

- (3) For a municipality, state, federal or other public agency: by either a principal executive officer or ranking elected official.
- b. All reports required by the permit and other information requested by the administrator of the Water Quality Division shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
- (1) The authorization is made in writing by a person described above and submitted to the administrator of the Water Quality Division; and
 - (2) The authorization specified either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or any individual occupying a named position.
- c. If an authorization under paragraph II.A.11.b. 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 paragraph II.A.11.b must be submitted to the administrator of the Water Quality Division prior to or together with any reports, information or applications to be signed by an authorized representative.
- d. 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."

B. RESPONSIBILITIES

1. A. Providing Access

The permittee shall allow Department of Environmental Quality personnel and their invitees to enter the premises where the facility is located, or where records are kept under the conditions of this permit, and collect resource data as defined by Wyoming Statute § 6-3-414, inspect and photograph the facility, collect samples for analysis, review records, and perform any other function authorized by law or regulation. The permittee shall secure and maintain such access for the duration of the permit.

If the facility is located on property not owned by the permittee, the permittee shall also

secure and maintain from the landowner upon whose property the facility is located permission for Department of Environmental Quality personnel and their invitees to enter the premises where a regulated facility is located, or where records are kept under the conditions of this permit, and collect resource data as defined by Wyoming Statute § 6-3-414, inspect and photograph the facility, collect samples for analysis, review records, and perform any other function authorized by law. The permittee shall secure and maintain such access for the duration of the permit.

If the facility cannot be directly accessed using public roads, the permittee shall also secure and maintain permission for Department of Environmental Quality personnel and their invitees to enter and cross all properties necessary to access the facility. The permittee shall secure and maintain such access for the duration of the permit.

B. Access Records

The permittee shall maintain in its records documentation that demonstrates that the permittee has secured permission for Department of Environmental Quality personnel and their invitees to access the permitted facility, including (i) permission to access the land where the facility is located, (ii) permission to collect resource data as defined by Wyoming Statute § 6-3-414, and (iii) permission to enter and cross all properties necessary to access the facility if the facility cannot be directly accessed from a public road. The permittee shall also maintain in its records a current map of the access route(s) to the facility and contact information for the owners or agents of all properties that must be crossed to access the facility. The permittee shall ensure that the documentation, map, and contact information are current at all times. The permittee shall provide the documentation, map, and contact information to Department of Environmental Quality personnel upon request. Upon termination of the permit, the permittee shall maintain such records for a period of three (3) years.

2. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the regional administrator of the Environmental Protection Agency and the administrator of the Water Quality Division. The administrator of the Water Quality Division shall then provide written notification to the new owner or controller of the date in which they assume legal responsibility of the permit. The permit may be modified or revoked and reissued to change the name of the permittee and incorporate such other requirements as described in the federal act.

3. Availability of Reports

Except for data determined to be confidential under Section 308 of the federal act, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Wyoming Department of Environmental Quality and the regional administrator of the Environmental Protection Agency. As required by the federal act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the federal act.

4. Toxic Pollutants

The permittee shall comply with effluent standards or prohibitions established under Section 307 (a) of the federal act for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Changes in Discharge of Toxic Substances

Notification shall be provided to the administrator of the Water Quality Division as soon as the permittee knows of, or has reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (1) One hundred micrograms per liter (100 µg/l);
 - (2) Two hundred micrograms per liter (200 µg/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
 - (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21 (g) (7); or
 - (4) The level established by the director of the Environmental Protection Agency in accordance with 40 CFR 122.44 (f).
- b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (1) Five hundred micrograms per liter (500 µg/l);
 - (2) One milligram per liter (1 mg/l) for antimony;
 - (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21 (g) (7); or
 - (4) The level established by the director of the Environmental Protection Agency in accordance with 40 CFR 122.44 (f).

6. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. As long as the conditions related to the provisions of "Bypass of Treatment Facilities" (Part II.A.5), "Upset Conditions" (Part II.A.6), and "Power Failures" (Part II.A.8) are satisfied then they shall not be considered as

noncompliance.

7. 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.

8. 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 federal act.

9. State Laws

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 established pursuant to any applicable state or federal law or regulation. In addition, issuance of this permit does not substitute for any other permits required under the Clean Water Act or any other federal, state, or local law.

10. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, 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.

11. 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 should be submitted at least 180 days before the expiration date of this permit.

12. Duty to Provide Information

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

13. 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 administrator of the Water Quality Division, it shall promptly submit such facts or information.

14. Permit Action

This permit may be modified, revoked 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.

15. Permit Fees

Once this permit has been issued, the permittee will be assessed a \$100.00 per-year permit fee by the Water Quality Division. The fee year runs from January 1st through December 31st. This permit fee will continue to be assessed for as long as the permit is active, regardless of whether discharge actually occurs. This fee is not pro-rated. If the permit is active during any portion of the fee year, the full fee will be billed to the permittee for that fee year. In the event that this permit is transferred from one permittee to another, each party will be billed the full permit fee for the fee year in which the permit transfer was finalized.

PART III

A. OTHER REQUIREMENTS

1. Flow Measurement

At the request of the administrator of the Water Quality Division, the permittee must be able to show proof of the accuracy of any flow measuring device used in obtaining data submitted in the monitoring report. The flow measuring device must indicate values of within plus or minus ten (10) percent of the actual flow being measured.

2. 208(b) Plans

This permit may be modified, suspended or revoked to comply with the provisions of any 208(b) plan certified by the Governor of the State of Wyoming.

3. Reopener Provision

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:

- a. The state 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;
- b. A total maximum daily load (TMDL) and/or watershed management plan is developed and approved by the state and/or the Environmental Protection Agency which specifies a wasteload allocation for incorporation in this permit;
- c. A revision to the current water quality management plan is approved and adopted which calls for different effluent limitations than contained in this permit;
- d. Downstream impairment is observed and the permitted facility is contributing to the impairment;
- e. The limits established by the permit no longer attain and/or maintain applicable water quality standards;
- f. The permit does not control or limit a pollutant that has the potential to cause or contribute to a violation of a state water quality standard.
- g. If new applicable effluent guidelines and/or standards have been promulgated and the standards are more stringent than the effluent limits established by the permit.
- h. In order to protect water quality standards in neighboring states, effluent limits may be incorporated into this permit or existing limits may be modified to ensure that the appropriate criteria, water quality standards and assimilative capacity are attained.
- i. If new, additional or more stringent permit conditions are necessary for control of

erosion downstream of the discharges to ensure protection of water quality standards.

4. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended or revoked in whole or in part during its term for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge; or
- d. If necessary to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b) (2) (C) and (D), 304 (b) (2) and 307 (a) (2) of the federal act, if the effluent standard or limitation so issued or approved:
 - (1) Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) Controls any pollutant not limited in the permit.

5. Toxicity Limitation - Reopener Provision

This permit may be reopened and modified (following proper administrative procedures) to include a new compliance date, additional or modified numerical limitations, a new or different compliance schedule, a change in the whole effluent protocol or any other conditions related to the control of toxicants if one or more of the following events occur:

- a. Toxicity was detected late in the life of the permit near or past the deadline for compliance;
- b. The TRE results indicate that compliance with the toxic limits will require an implementation schedule past the date for compliance and the permit issuing authority agrees with the conclusion;
- c. The TRE results indicate that the toxicant(s) represent pollutant(s) that may be controlled with specific numerical limits and the permit issuing authority agrees that numerical controls are the most appropriate course of action;
- d. Following the implementation of numerical controls on toxicants, the permit issuing authority agrees that a modified whole effluent protocol is necessary to compensate for those toxicants that are controlled numerically;
- e. The TRE reveals other unique conditions or characteristics which, in the opinion of the permit issuing authority, justify the incorporation of unanticipated special conditions in the permit.

6. 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.

7. Penalties for Falsification of Reports

The federal 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 \$10,000 per violation or by imprisonment for not more than two years per violation or both.