

## **AUTHORIZATION TO DISCHARGE UNDER THE COLORADO DISCHARGE PERMIT SYSTEM**

In compliance with the provisions of the Colorado Water Quality Control Act, (25-8-101 et seq., CRS, 1973 as amended) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq.; the "Act") the

### **Union Pacific Railroad**

is authorized to discharge from the Moffat Tunnel located at NW 1/4 Section 2 T25 N R74W, WEST PORTAL Latitude 39 53' 10" N, Longitude 105 46' W. EAST PORTAL: Latitude 39 54' 8" N, Longitude 105 38' 45" W. to WEST PORTAL: the Frasier River and EAST PORTAL: South Boulder Creek in accordance with effluent limitations, monitoring requirements and other conditions set forth in Part I and II hereof. All discharges authorized herein shall be consistent with the terms and conditions of this permit.

The applicant may demand an adjudicatory hearing within thirty (30) days of the issuance of the final permit determination, per the Colorado Discharge Permit System Regulations, 61.7(1). Should the applicant choose to contest any of the effluent limitations, monitoring requirements or other conditions contained herein, the applicant must comply with Section 24-4-104 CRS and the Colorado Discharge Permit System Regulations. Failure to contest any such effluent limitation, monitoring requirement, or other condition, constitutes consent to the condition by the Applicant.

This permit and the authorization to discharge shall expire at midnight, **April 30, 2013**

Issued and Signed this 20<sup>th</sup> day of March, 2008

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT



Janet Kieler, Permits Section Manager  
Water Quality Control Division

**ISSUED AND SIGNED MARCH 20, 2008**

**EFFECTIVE: MAY 1, 2008**

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**PART I**

**A. DEFINITION OF EFFLUENT LIMITATIONS**

**1. Effluent Limitations**

Beginning no later than the effective date of this permit and lasting through the expiration date, the permittee is authorized to discharge from outfall(s): **001A, after treatment and prior to entering the Fraser River.**

In accordance with the Water Quality Control Commission Regulations for Effluent Limitations, Section 62.4, and the Colorado Discharge Permit System Regulations, Section 61.8(2), 5 C.C.R. 1002-61, the permitted discharge shall not contain effluent parameter concentrations which exceed the following limitations specified below or exceed the specified flow limitation.

Note the report only limitations for total suspended solids is due to the approval of a variance request for this parameter. If the permittee determines that a treatment facility is necessary to meet the metals limitations as contained in this permit, the variance for total suspended solids will be reevaluated.

Outfall 001 – Fraser River

**Effluent Parameter**

	<b><u>Maximum Concentrations</u></b>			
	<b><u>30-Day Average</u></b>	<b><u>7-Day Average</u></b>	<b><u>Daily Maximum</u></b>	<b><u>2-Yr Average</u></b>
Flow, MGD	0.5	NA	Report	NA
Total Suspended Solids (TSS), mg/l	Report	Report	NA	NA
pH, s.u. (minimum-maximum)	NA	NA	6.5-9 d/	NA
Oil and Grease, mg/l	NA	NA	10 d/	NA
Total Dissolved Solids, mg/l	Report	NA	Report	NA
Whole Effluent Toxicity, Chronic Lethality				
until 03/31/11	NA	NA	Report	
beginning 04/01/11	NA	NA	Statistical Difference & IC25 ≥ IWC	
Potentially Dissolved Copper, µg/l				
until 04/30/13	Report	NA	Report	Report
beginning 05/01/13	16	NA	18	2.6
Dissolved Iron, µg/l				
until 04/30/13	Report	NA	Report	Report
beginning 05/01/13	300	NA	Report	217
Total Recoverable Iron, µg/l				
until 04/30/13	Report	NA	Report	Report
beginning 05/01/13	3,100	NA	Report	NA
Potentially Dissolved Lead, µg/l				
until 04/30/13	Report	NA	Report	Report
beginning 05/01/13	3.4	NA	73	0.97
Dissolved Manganese, µg/l				
until 04/30/13	Report	NA	Report	Report
beginning 05/01/13	126	NA	Report	34
Total Uranium, ug/l				
until 04/30/13	Report	NA	Report	Report
beginning 05/01/13	Report	NA	113	NA

Beginning no later than the effective date of this permit and lasting through the expiration date, the permittee is authorized to discharge from outfall(s): **MON1, after treatment and prior to entering the Fraser River.**

In accordance with the Water Quality Control Commission Regulations for Effluent Limitations, Section 62.4, and the Colorado Discharge Permit System Regulations, Section 61.8(2), 5 C.C.R. 1002-61, the permitted discharge shall not contain effluent parameter concentrations which exceed the following limitations specified below or exceed the specified flow limitation.

Outfall MON1 – Fraser River

Effluent Parameter

	<u>Maximum Concentrations</u>			
	<u>30-Day Average</u>	<u>7-Day Average</u>	<u>Daily Maximum</u>	<u>2-Yr Average</u>
Total Arsenic, µg/l	Report	NA	Report	Report
Potentially Dissolved Cadmium, µg/l	Report	NA	Report	Report
Total Recoverable Chromium, µg/l	Report	NA	Report	Report
Total Mercury, µg/l	Report	NA	Report	Report
Potenitally Dissolved Nickel, µg/l	Report	NA	Report	Report
Potentially Dissolved Selenium, µg/l	Report	NA	Report	Report
Potentially Dissolved Silver, µg/l	Report	NA	Report	Report
Potentially Dissolved Zinc, µg/l	Report	NA	Report	Report
Chloride, mg/l	Report	NA	Report	Report
Weak Acid Dissociable Cyanide, mg/l	NA	NA	Report	Report
Sulfate, mg/l	Report	NA	Report	Report

Beginning no later than the effective date of this permit and lasting through the expiration date, the permittee is authorized to discharge from outfall(s): **002A, after treatment and prior to entering South Boulder Creek.**

In accordance with the Water Quality Control Commission Regulations for Effluent Limitations, Section 62.4, and the Colorado Discharge Permit System Regulations, Section 61.8(2), 5 C.C.R. 1002-61, the permitted discharge shall not contain effluent parameter concentrations which exceed the following limitations specified below or exceed the specified flow limitation.

Note the report only limitations for total suspended solids is due to the approval of a variance request for this parameter. If the permittee determines that a treatment facility is necessary to meet the metals limitations as contained in this permit, the variance for total suspended solids will be terminated and treatment for this parameter will also need to be addressed.

Outfall 002 – South Boulder Creek

Effluent Parameter

	<u>Maximum Concentrations</u>			
	<u>30-Day Average</u>	<u>7-Day Average</u>	<u>Daily Maximum</u>	<u>2-Yr Average</u>
Flow, MGD	0.5	NA	Report	NA
Total Suspended Solids (TSS), mg/l	Report	Report	NA	NA
pH, s.u. (minimum-maximum)	NA	NA	6.5-9 d/	NA
Oil and Grease, mg/l	NA	NA	10 d/	NA
Whole Effluent Toxicity, Chronic Lethality				
until 03/31/11	NA	NA	Report	
beginning 04/01/11	NA	NA	Statistical Difference & IC25 $\geq$ IWC	
Total Recoverable Chromium, $\mu\text{g/l}$				
until 04/30/13	Report	NA	Report	Report
beginning 05/01/13	Report	NA	50	7.5
Potentially Dissolved Copper, $\mu\text{g/l}$				
until 04/30/13	Report	NA	Report	Report
beginning 05/01/13	3.5	NA	4.7	2.2
Dissolved Iron, $\mu\text{g/l}$				
until 04/30/13	Report	NA	Report	Report
beginning 05/01/13	300	NA	Report	156
Total Recoverable Iron, $\mu\text{g/l}$				
until 04/30/13	Report	NA	Report	Report
beginning 05/01/13	1000	NA	Report	NA
Potentially Dissolved Lead, $\mu\text{g/l}$				
until 04/30/13	Report	NA	Report	Report
beginning 05/01/13	0.74	NA	19	0.11
Dissolved Manganese, $\mu\text{g/l}$				
until 04/30/13	Report	NA	Report	Report
beginning 05/01/13	50	NA	Report	25.0
Total Mercury, $\mu\text{g/l}$				
until 04/30/13	Report	NA	Report	Report
beginning 05/01/13	0.01	NA	Report	NA
Potentially Dissolved Silver, $\mu\text{g/l}$				
until 04/30/13	Report	NA	Report	Report
beginning 05/01/13	0.011	NA	0.30	0.0017
Potentially Dissolved Zinc, $\mu\text{g/l}$				
until 04/30/13	Report	NA	Report	Report
beginning 05/01/13	Report	NA	46	31
Total Uranium, $\text{ug/l}$				
until 04/30/13	Report	NA	Report	Report
beginning 05/01/13	Report	NA	30	NA

Beginning no later than the effective date of this permit and lasting through the expiration date, the permittee is authorized to discharge from outfall(s): **MON2, after treatment and prior to entering the Fraser River.**

In accordance with the Water Quality Control Commission Regulations for Effluent Limitations, Section 62.4, and the Colorado Discharge Permit System Regulations, Section 61.8(2), 5 C.C.R. 1002-61, the permitted discharge shall not contain effluent parameter concentrations which exceed the following limitations specified below or exceed the specified flow limitation.

Outfall MON2 – South Boulder Creek

**Effluent Parameter**

	<u><b>Maximum Concentrations</b></u>			
	<u><b>30-Day Average</b></u>	<u><b>7-Day Average</b></u>	<u><b>Daily Maximum</b></u>	<u><b>2-Yr Average</b></u>
Total Arsenic, µg/l	Report	NA	Report	Report
Potentially Dissolved Cadmium, µg/l	Report	NA	Report	Report
Total Chromium, µg/l	Report	NA	Report	Report
Potentially Dissolved Nickel, µg/l	Report	NA	Report	Report
Potentially Dissolved Selenium, µg/l	Report	NA	Report	Report
Chloride, mg/l	Report	NA	Report	Report
Weak Acid Dissociable Cyanide, mg/l	NA	NA	Report	Report
Sulfate, mg/l	Report	NA	Report	Report

**2. Whole Effluent Toxicity - Chronic Lethality Limitation**

For Outfalls 001A and 002A, beginning on October 1, 2010, and lasting through the expiration date of this permit, there shall be no statistically significant difference in lethality (at the 95% confidence level) between the control and any effluent concentration less than or equal to **21.5%** effluent at Outfall 001A and **100%** effluent at Outfall 002A. Such limitation shall apply as a daily maximum.

See Part I.C. for Definitions.

**3. Compliance Schedule**

All information and written reports required by the following compliance schedules should be directed to the Permits Section for final review unless otherwise stated.

a. Mixing Zone Analysis – For the discharge to the Fraser River from Outfall 001A, the permittee is to conduct the remaining threshold tests for exclusion from further analysis under the mixing zone regulations. The next threshold test is the application of the Mixing Zone Exclusion Tables (p20 of the Colorado Mixing Zone Implementation Guidance, Feb 2002). The permittee shall collect the necessary site-specific data, perform the required analysis, and provide a report to the Division. The report will indicate the findings of this threshold test and, if not excluded, provide the workplan for the next activities (determining the size of the physical and regulatory mixing zones). This report is due by **April 30, 2009**.

b. Activities to Meet Metals Final Limitations – The permittee is to submit the metals monitoring data collected to date by **April 30, 2009 and again on April 30, 2010**. The permittee is to submit a report outlining the chosen option to meet the final limitations, including plans and specifications as well as a timeline for interim measures by **April 30, 2011**. The permittee is to submit a progress report summarizing the progress in implementing the chosen option to meet the final limitations by **April 30, 2012**. The permittee is to submit results showing that compliance with the limitations has been attained by **April 30, 2013**.

No later than 14 calendar days following each date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

4. Chronic WET Testing-Outfall(s): 001A and 002A

a. Testing and Reporting Requirements

Tests shall be done at the frequency listed in Part I.B.1. Test results shall be reported along with the Discharge Monitoring Report (DMR) submitted for the reporting period during which the sample was taken. (i.e., WET testing results for the first calendar quarter ending March 31 shall be reported with the DMR due April 28.) The results shall be submitted on the Chronic Toxicity Test report form, available from the Division. Copies of these reports are to be submitted to the Division along with the DMR.

The permittee shall conduct each chronic WET test in general accordance with methods described in Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, EPA/600/4-89/001 or the most current edition, except as modified by the most current Division guidance document entitled Guidelines for Conducting Whole Effluent Toxicity Tests. The permittee shall conduct such tests using *Ceriodaphnia dubia* and fathead minnows.

b. Failure of Test and Division Notification

Prior to the effective date of the limitation, a chronic WET test is failed whenever 1) there is a statistically significant difference in lethality between the control and any effluent concentration less than or equal to the instream waste concentration (IWC) and, 2) the IC<sub>25</sub>, which represents an estimate of the effluent concentration at which 25% of the test organisms demonstrate inhibition as reflected by lethality, is at any effluent concentration less than or equal to the IWC. The IWC for this permit has been determined to be 21.5% at Outfall 001A and 100% at Outfall 002A. The permittee must provide written notification of the failure of a WET test to the Division, along with a statement as to whether a Preliminary Toxicity Investigation (PTI)/Toxicity Identification Evaluation (TIE) or accelerated testing is being performed (see Part I.A.3.d.). **Notification must be received by the Division within 21 calendar days of the demonstration of chronic WET in the routine required test.** Demonstration for the purposes of Parts I.A.3.b., c., d. and f. means no later than the last day of the laboratory test.

Beginning on the effective date of the limitation, a chronic WET test is failed whenever there is a statistically significant difference in lethality between the control and any effluent concentration less than or equal to the instream waste concentration (IWC). The IWC for this permit has been determined to be 21.5% at Outfall 001A and 100% at Outfall 002A. The permittee must provide written notification of the failure of a WET test to the Division, along with a statement as to whether a Preliminary Toxicity Investigation (PTI)/Toxicity Identification Evaluation (TIE) or accelerated testing is being performed. **Notification must be received by the Division within 21 calendar days of the demonstration of chronic WET in the routine required test.** Demonstration for the purposes of Parts I.A.3.b., c., d., e. and g. means no later than the last day of the laboratory test.

c. Automatic Compliance Schedule Upon Failure of Test

If a routine chronic WET test is failed, regardless of whether the limit is in effect, the following automatic compliance schedule shall apply. As part of this, the permittee shall either:

- i. Proceed to conduct the PTI/TIE investigation as described in Part I.A.3.d., or
- ii. Conduct accelerated testing using the single species found to be more sensitive.

**If accelerated testing is being performed, the permittee shall provide written notification of the results within 14 calendar days of completion of the Pattern of Toxicity/No Toxicity demonstration.** Testing will be at least once every two weeks for up to five tests until; 1) two consecutive tests fail or three of five tests fail, in which case a pattern of toxicity has been demonstrated or 2) two consecutive tests pass or three of five tests pass, in which case no pattern of toxicity has been found. If no pattern of toxicity is found the toxicity episode is considered to be ended and routine testing is to resume. If a pattern of toxicity is found, a PTI/TIE investigation is to be performed. If a pattern of toxicity is not demonstrated but a significant level of erratic toxicity is found, the Division may require an increased frequency of routine monitoring or some other modified approach.

b. PTI/TIE

**The results of the PTI/TIE investigation are to be received by the Division within 120 days of the demonstration of chronic WET in the routine test, as defined above, or if accelerated testing is performed, the date the pattern of toxicity is demonstrated. A status report is to be provided to the Division at the 30, 60 and 90 day points of the PTI/TIE investigation.** The Division may extend the time frame for investigation where reasonable justification exists. A request for an extension must be made in writing and received prior to the 120 day deadline. Such request must include a justification and supporting data for such an extension.

The permittee may use the time for investigation to conduct a PTI or move directly into the TIE. A PTI consists of a brief search for possible sources of WET, which might reveal causes of such toxicity and appropriate corrective actions more simply and cost effectively than a formal TIE. If the PTI allows resolution of the WET incident, the TIE need not necessarily be conducted. If, however, WET is not identified or resolved during the PTI, the TIE must be conducted within the allowed 120 day time frame.

Any permittee that is required to conduct a PTI/TIE investigation shall do so in conformance with procedures identified in the following documents, or as subsequently updated: 1) Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I, EPA/600/6-91/005F May 92, 2) Methods for Aquatic Toxicity Identification Evaluations, Phase I Toxicity Characterization Procedures, EPA/600/6-91/003 Feb. 91 and 3) Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures, EPA/600/3-88/035 Feb. 1989.

A fourth document in this series is Methods for Aquatic Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures, EPA/600/3-88/036 Feb. 1989. As indicated by the title, this procedure is intended to confirm that the suspected toxicant is truly the toxicant. This investigation is optional.

Within 90 days of the determination of the toxicant or no later than 210 days after demonstration of toxicity, whichever is sooner, a control program is to be developed and received by the Division. The program shall set down a method and procedure for elimination of the toxicity to acceptable levels.

c. Request For Relief

The permittee may request relief from further investigation and testing where the toxicant has not been determined and suitable treatment does not appear possible. In requesting such relief, the permittee shall submit material sufficient to establish the following:

- i. It has complied with terms and conditions of the permit compliance schedule for the PTI/TIE investigation and other appropriate conditions as may have been required by the WQCD;
- ii. During the period of the toxicity incident it has been in compliance with all other permit conditions, including, in the case of a POTW, pretreatment requirements;
- iii. During the period of the toxicity incident it has properly maintained and operated all facilities and systems of treatment and control; and
- iv. Despite the circumstances described in paragraphs (i) and (iii) above, the source and/or cause of toxicity could not be located or resolved.

If deemed appropriate by the Division, the permit or the compliance schedule may be modified to revise the ongoing monitoring and toxicity investigation requirements to avoid an unproductive expenditure of the permittee's resources, provided that the underlying obligation to eliminate any continuing exceedance of the toxicity limit shall remain.

d. Spontaneous Disappearance

If toxicity spontaneously disappears at any time after a test failure, the permittee shall notify the Division in writing within 14 days of a demonstration of disappearance of the toxicity. The Division may require the permittee to develop and submit additional information, which may include, but is not limited to, the results of additional testing. If no pattern of toxicity is identified or recurring toxicity is not identified, the toxicity incident response is considered closed and normal WET testing shall resume.

e. **Toxicity Reopener**

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

- i. Toxicity has been demonstrated in the effluent and the permit does not contain a toxicity limitation.
- ii. The PTI/TIE results indicate that the identified toxicant(s) represent pollutant(s) that may be controlled with specific numerical limits and the permit issuing authority agrees that the control of such toxicants through numerical limits is the most appropriate course of action.
- iii. The PTI/TIE 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.

**B. MONITORING REQUIREMENTS**

**1. Frequency and Sample Type**

In order to obtain an indication of the probable compliance or noncompliance with the effluent limitations specified in Part I.A.1, the permittee shall monitor all effluent parameters at the following frequencies. Such monitoring will begin immediately and last for the life of the permit unless otherwise noted. The results of such monitoring shall be reported on the Discharge Monitoring Report form (See Part I.E.)

If the site is inaccessible during the entire monitoring period (week, month, or quarter) monitoring may be waived for that period. The permittee is responsible for documenting that the site was inaccessible during the entire monitoring period. If the site is accessible during a portion of the monitoring period, it is expected that monitoring will occur.

a. Outfall 001A

<u>Effluent Parameter</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow, MGD	Continuous	Recorder
Total Suspended Solids (TSS), mg/l	Weekly	Grab
pH, s.u. (minimum-maximum)	Weekly	Grab
Oil and Grease, mg/l	Weekly	Visual
Total Dissolved Solids, mg/l	Quarterly	Grab
Whole Effluent Toxicity, Chronic Lethality	Quarterly	3 Grabs / Test
Potentially Dissolved Copper, µg/l	Monthly	Grab i/
Dissolved Iron, µg/l	Monthly	Grab
Total Recoverable Iron, µg/l	Monthly	Grab
Potentially Dissolved Lead, µg/l	Monthly	Grab i/
Dissolved Manganese, µg/l	Monthly	Grab
Total Uranium, ug/l	Monthly	Grab i/

Self-monitoring sampling by the permittee for compliance with the monitoring requirements specified above shall be performed at the following location(s): **001A, after treatment and prior to entering the Fraser River**. If the permittee, using the approved analytical methods, monitors any parameter more frequently than required by this permit, then the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Form (DMRs) or other forms as required by the Division. Such increased frequency shall also be indicated.

- i/ This parameter is subject to "Noncompliance Notification" requirements of Part II.A.4.b.(4) of this permit for violations of the Daily Maximum limitation for this parameter.

Outfall MON1

<u>Effluent Parameter</u>	<u>Frequency</u>	<u>Sample Type</u>
Total Arsenic, µg/l	Monthly	Grab
Potentially Dissolved Cadmium, µg/l	Monthly	Grab
Total Recoverable Chromium, µg/l	Monthly	Grab
Total Mercury, µg/l	Monthly	Grab
Potenitally Dissolved Nickel, µg/l	Monthly	Grab
Potentially Dissolved Selenium, µg/l	Monthly	Grab
Potentially Dissolved Silver, µg/l	Monthly	Grab
Potentially Dissolved Zinc, µg/l	Monthly	Grab
Chloride, mg/l	Monthly	Grab
Weak Acid Dissociable Cyanide, mg/l	Monthly	Grab
Sulfate, mg/l	Monthly	Grab

Self-monitoring sampling by the permittee for compliance with the monitoring requirements specified above shall be performed at the following location: **MON1, after treatment and prior to entering the Fraser River**. If the permittee, using the approved analytical methods, monitors any parameter more frequently than required by this permit, then the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Form (DMRs) or other forms as required by the Division. Such increased frequency shall also be indicated.

Outfall 002A

<u>Effluent Parameter</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow, MGD	Continuous	Recorder
Total Suspended Solids (TSS), mg/l	Weekly	Grab
pH, s.u. (minimum-maximum)	Weekly	Grab
Oil and Grease, mg/l	Weekly	Visual
Whole Effluent Toxicity, Chronic Lethality	Quarterly	3 Grabs/Test
Total Recoverable Chromium, µg/l	Monthly	Grab i/
Potentially Dissolved Copper, µg/l	Monthly	Grab i/
Dissolved Iron, µg/l	Monthly	Grab
Total Recoverable Iron, µg/l	Monthly	Grab
Potentially Dissolved Lead, µg/l	Monthly	Grab i/
Dissolved Manganese, µg/l	Monthly	Grab
Total Mercury, µg/l	Monthly	Grab i/
Potentially Dissolved Silver, µg/l	Monthly	Grab i/
Potentially Dissolved Zinc, µg/l	Monthly	Grab i/
Total Uranium, ug/l	Monthly	Grab i/

Self-monitoring sampling by the permittee for compliance with the monitoring requirements specified above shall be performed at the following location(s): **001A, after treatment and prior to entering South Boulder Creek**. If the permittee, using the approved analytical methods, monitors any parameter more frequently than required by this permit, then the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Form (DMRs) or other forms as required by the Division. Such increased frequency shall also be indicated.

- i/ This parameter is subject to "Noncompliance Notification" requirements of Part II.A.4.b.(4) of this permit for violations of the Daily Maximum limitation for this parameter.

**Outfall MON2**

<u>Effluent Parameter</u>	<u>Frequency</u>	<u>Sample Type</u>
Total Arsenic, µg/l	Monthly	Grab
Potentially Dissolved Cadmium, µg/l	Monthly	Grab
Total Chromium, µg/l	Monthly	Grab
Potentially Dissolved Nickel, µg/l	Monthly	Grab
Potentially Dissolved Selenium, µg/l	Monthly	Grab
Chloride, mg/l	Monthly	Grab
Weak Acid Dissociable Cyanide, mg/l	Monthly	Grab
Sulfate, mg/l	Monthly	Grab

Self-monitoring sampling by the permittee for compliance with the monitoring requirements specified above shall be performed at the following location: **MON2, after treatment and prior to entering South Boulder Creek**. If the permittee, using the approved analytical methods, monitors any parameter more frequently than required by this permit, then the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Form (DMRs) or other forms as required by the Division. Such increased frequency shall also be indicated.

b. **Oil and Grease Monitoring**

For every outfall with oil and grease monitoring, in the event an oil sheen or floating oil is observed, a grab sample shall be collected, analyzed, and reported on the appropriate DMR. In addition, corrective action shall be taken immediately to mitigate the discharge of oil and grease. A description of the corrective action taken should be included with the DMR.

2. **Salinity Parameters**

In order to obtain an indication of the quantity of Salinity, measured as total dissolved solids (TDS), being discharged from the site the permittee shall monitor the wastewater effluent at the following frequencies:

<u>Outfall</u>	<u>Frequency</u>	<u>Sample Type</u>
001	Quarterly	Grab

Self-monitoring samples taken in compliance with the monitoring requirements specified above shall be taken at those locations listed in Part I.B.1. Where, based on a minimum of 5 samples, the permittee demonstrates to the satisfaction of the Division that the level of total dissolved solids (TDS) in the effluent can be calculated based upon the level of electrical conductivity, the permittee may measure and report TDS in terms of electrical conductivity.

3. **Special Monitoring**

The permittee shall monitor for TSS at instream locations above and below the discharge points for both receiving streams. Sampling shall occur at the instream locations above and below the discharge point at least once per month. The permittee shall submit all TSS monitoring data collected each April. This is being required to ensure that the variance granted for TSS does not have negative effects on the receiving stream. This data collection will also help the permittee support any future variance requests for TSS in renewal permit actions.

### C. DEFINITIONS OF TERMS

1. Antidegradation limits apply as the average of all data collected for months in that group during a rolling 24-month period. These limits become effective after data has been collected for all months in the group during the 24 months following permit issuance. Where antidegradation groups are not indicated, data from all months will be utilized to determine the reported value and the limit will become effective in the 24th month in which the permit is effective.
2. "Continuous" measurement, is a measurement obtained from an automatic recording device which continually measures provides measurements.
3. "Daily Maximum limitation" means the limitation for this parameter shall be applied as an instantaneous maximum (or, for pH or DO, instantaneous minimum) value. The instantaneous value is defined as the analytical result of any individual sample. DMRs shall include the maximum (and/or minimum) of all instantaneous values within the calendar month. Any instantaneous value beyond the noted daily maximum limitation for the indicated parameter shall be considered a violation of this permit.
4. "Dissolved (D) metals fraction" is defined in the Basic Standards and Methodologies for Surface Water 1002-31, as that portion of a water and suspended sediment sample which passed through a 0.40 or 0.45 UM (micron) membrane filter. Determinations of "dissolved" constituents are made using the filtrate. This may include some very small (colloidal) suspended particles which passed through the membrane filter as well as the amount of substance present in true chemical solution.
5. "Grab" sample, is a single "dip and take" sample so as to be representative of the parameter being monitored.
6. "In-situ" measurement is defined as a single reading, observation or measurement taken in the field at the point of discharge.
7. "Instantaneous" measurement is a single reading, observation, or measurement performed on site using existing monitoring facilities.
8. "Potentially dissolved (PD) metals fraction" is defined in the Basic Standards and Methodologies for Surface Water 1002-31, as that portion of a constituent measured from the filtrate of a water and suspended sediment sample that was first treated with nitric acid to a pH of 2 or less and let stand for 8 to 96 hours prior to sample filtration using a 0.40 or 0.45-UM (micron) membrane filter. Note the "potentially dissolved" method cannot be used where nitric acid will interfere with the analytical procedure used for the constituent measured.
9. "Quarterly measurement frequency" means samples may be collected at any time during the calendar quarter if a continual discharge occurs. If the discharge is intermittent, then samples shall be collected during the period that discharge occurs.
10. "Recorder" requires the continuous operation of a chart and/or totalizer (or drinking water rotor meters or pump hour meters where previously approved.)
11. "Seven (7) day average" means, with the exception of fecal coliform or *E. coli* bacteria, the arithmetic mean of all samples collected in a seven (7) consecutive day period. For fecal coliform or *E. coli* bacteria, it is the geometric mean of all samples taken in a seven (7) consecutive day period. Such seven (7) day averages shall be calculated for all calendar weeks, which are defined as beginning on Sunday and ending on Saturday. If the calendar week overlaps two months (i.e. the Sunday is in one month and the Saturday in the following month), the seven (7) day average calculated for that calendar week shall be associated with the month that contains the Saturday. Samples may not be used for more than one (1) reporting period. (Not applicable to fecal coliform or *E. coli* determinations.)
12. "Thirty (30) day average" means, except for fecal coliform or *E. coli* bacteria, the arithmetic mean of all samples collected during a thirty (30) consecutive-day period. For fecal coliform or *E. coli* bacteria, it is the geometric mean of all samples collected in a thirty (30) day period. The permittee shall report the appropriate mean of all self-monitoring sample data collected during the calendar month on the Discharge Monitoring Reports. Samples shall not be used for more than one (1) reporting period.

13. "Total Metals" means the concentration of metals determined on an unfiltered sample following vigorous digestion (Section 4.1.3), or the sum of the concentrations of metals in both the dissolved and suspended fractions, as described in Manual of Methods for Chemical Analysis of Water and Wastes, U.S. Environmental Protection Agency, March 1979, or its equivalent.
14. "Total Recoverable Metals" means that portion of a water and suspended sediment sample measured by the total recoverable analytical procedure described in Methods for Chemical Analysis of Water and Wastes, U.S. Environmental Protection Agency, March 1979 or its equivalent.
15. "Twice Monthly" monitoring frequency means that two samples shall be collected each calendar month on separate weeks with at least one full week between the two sample dates. Also, there shall be at least one full week between the second sample of a month and the first sample of the following month.
16. "Visual" observation is observing the discharge to check for the presence of a visible sheen or floating oil.
17. "Water Quality Control Division" or "Division" means the state Water Quality Control Division as established in 25-8-101 et al.)

Additional relevant definitions are found in the Colorado Water Quality Control Act, CRS §§ 25-8-101 et seq., the Colorado Discharge Permit System Regulations, Regulation 61 (5 CCR 1002-61) and other applicable regulations.

#### **D. GENERAL MONITORING, SAMPLING AND REPORTING REQUIREMENTS**

##### **1. Routine Reporting of Data**

Reporting of the data gathered in compliance with Part I.B.1 shall be on a **monthly** basis. Reporting of all data gathered shall comply with the requirements of Part I.E. (General Requirements). Monitoring results shall be summarized for each calendar month and reported on Division approved discharge monitoring report (DMR) forms (EPA form 3320-1). One form shall be mailed to the Water Quality Control Division, as indicated below, so that the DMR is received no later than the 28th day of the following month (for example, the DMR for the first calendar quarter must be received by the Division by April 28th). If no discharge occurs during the reporting period, "No Discharge" shall be reported.

The DMR forms consist of four pages - the top "original" copy, and three attached no-carbon-required copies. After the DMR form has been filled out and signed, the four copies must be separated and distributed as follows:

The first original signed copy of each discharge monitoring report (DMR) shall be submitted to the Division at the following address:

Colorado Department of Public Health and Environment  
Water Quality Control Division  
WQCD-P-B2  
4300 Cherry Creek Drive South  
Denver, Colorado 80246-1530

Additional copies are for the permittee records. The Discharge Monitoring Report forms shall be filled out accurately and completely in accordance with requirements of this permit and the instructions on the forms. They shall be signed by an authorized person as identified in Part I.E.6.

Calculations for all limitations which require the averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Division in the permit

##### **2. 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 wastestream, body of water, or substance. Monitoring points shall not be changed without notification to and approval by the Division.

If the permittee monitors at the point of discharge any pollutant limited by the permit more frequently than required by the permit, using approved test procedures or as specified in the permit, the result of this monitoring shall be included in the calculation and reporting of data to the Division.

### 3. Analytical and Sampling Methods for Monitoring

The permittee shall install, calibrate, use and maintain monitoring methods and equipment, including biological and indicated pollutant monitoring methods. All sampling shall be performed by the permittee according to specified methods in 40 C.F.R. Part 136; methods approved by EPA pursuant to 40 C.F.R. Part 136; or methods approved by the Division, in the absence of a method specified in or approved pursuant to 40 C.F.R. part 136. **The analytical method selected for a parameter shall be the one that can measure the lowest detected limit for that parameter unless the permit limitation or stream standard for those parameters not limited, is within the testing range of another approved method.** When requested in writing, the Division may approve an alternative analytical procedure or any significant modification to an approved procedure.

When the most sensitive analytical method which complies with this part, has a detection limit greater than or equal to the permit limit, the permittee shall report "less than (the detectable limit)," as appropriate. Such reports shall not be considered as violations of the permit limit. The present lowest practical quantitation limits (PQL) for specific parameters (which have limitations that are, in some cases, less than or equal to the detection limit) are as follows:

<u>Effluent Characteristic</u>	<u>PQLs, µg/l</u>
Arsenic	1
Cadmium	0.06
Chromium	2
Chromium, Hexavalent	2
Copper	5
Cyanide	10
Iron	10
Lead	1
Manganese	2
Mercury	0.003
Nickel	3
Phenols	15
Selenium	1
Silver	0.5
Uranium	1
Zinc	10

These limits apply to the total recoverable or the potentially dissolved fraction of metals.

### 4. Records

The permittee shall establish and maintain records. Those records shall include the following:

- The date, type, exact location, and time of sampling or measurements;
- The individual(s) who performed the sampling or measurements;
- The date(s) the analyses were performed;
- The individual(s) who performed the analyses;
- The analytical techniques or methods used;
- The results of such analyses; and
- Any other observations which may result in an impact on the quality or quantity of the discharge as indicated in 40 CFR 122.44 (i)(1)(iii).

The permittee shall retain for a minimum of three (3) years records of all monitoring information, including all original strip chart recordings for continuous monitoring instrumentation, all calibration and maintenance records, copies of all reports required by this permit and records of all data used to complete the application for this permit. This period of retention shall

be extended during the course of any unresolved litigation regarding the discharge of pollutants by the permittee or when requested by the Division or EPA.

**5. Flow Measuring Device**

If not already a part of the permitted facility, within ninety (90) days after the effective date of the permit, a flow measuring device shall be installed to give representative values of effluent quantities at the respective discharge points. Unless specifically exempted, or modified in Part I.E.5 of this permit, a flow measuring device will be applicable at all designated discharge points.

At the request of the Division, the permittee shall 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 within ten (10) percent of the actual flow being discharged from the facility.

**6. Signatory and Certification Requirements**

- a. All reports and other information required by the Division, shall be signed and certified for accuracy by the permittee in accord with the following criteria:
  - i) In the case of corporations, by a principal executive officer of at least the level of vice-president or his or her duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge described in the form originates;
  - ii) In the case of a partnership, by a general partner;
  - iii) In the case of a sole proprietorship, by the proprietor;
  - iv) In the case of a municipal, state, or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.
- b. All reports required by permits, and other information requested by the Division shall be signed by a person as described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
  - i) The authorization is made in writing by a person described above;
  - ii) The authorization specifies 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); and,
  - iii) The written authorization is submitted to the Division.

If an authorization as described in this section 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 this section must be submitted to the Division prior to or together with any reports, information, or applications to be signed by an authorized representative.

The permittee, or the duly authorized representative shall make and sign the following certification on all such documents:

"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."

**PART II**

**A. NOTIFICATION REQUIREMENTS**

**1. Notification to Parties**

All notification requirements under this section shall be directed as follows:

- a. **Oral Notifications, other than for spills, during normal business hours** shall be to:

Water Quality Protection Section - Industrial Compliance Program  
Water Quality Control Division  
Telephone: (303) 692-3500

**Spills notifications at any time and other notifications after hours** shall be to:

Emergency Management Program  
Laboratory and Radiation Services Division  
Telephone: (877) 518-5608

- b. **Written notification** shall be to:

Water Quality Protection Section - Industrial Compliance Program  
Water Quality Control Division  
Colorado Department of Public Health and Environment  
WQCD-WQP-B2  
4300 Cherry Creek Drive South  
Denver, CO 80246-1530

**2. Change in Discharge**

The permittee shall notify the Division, in writing, of any planned physical alterations or additions to the permitted facility. Notice is required only when:

- a. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged, or;
- b. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported pursuant to an approved land application plan.

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

Whenever notification of any planned physical alterations or additions to the permitted facility is required pursuant to this section, the permittee shall furnish the Division such plans and specifications which the Division deems reasonably necessary to evaluate the effect on the discharge, the stream, or ground water. If the Division finds that such new or altered discharge might be inconsistent with the conditions of the permit, the Division shall require a new or revised permit application and shall follow the procedures specified in Sections 61.5 through 61.6, and 61.15 of the Colorado Discharge Permit System Regulations.

**3. Special Notifications - Definitions**

- a. **Bypass:** The intentional diversion of waste streams from any portion of a treatment facility.
- b. **Severe Property Damage:** Substantial physical damage to property at 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. It does not mean economic loss caused by delays in production.

- c. Spill: An incident in which flows or solid materials are accidentally or unintentionally allowed to flow or escape so as to be lost from the treatment, processing or manufacturing system which may cause or threaten pollution of state waters.
- d. Upset: An exceptional incident in which there is unintentional and temporary noncompliance with 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, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.

**4. Noncompliance Notification**

- a. If, for any reason, the permittee does not comply with or will be unable to comply with any discharge limitations or standards specified in this permit, the permittee shall, at a minimum, provide the Division and EPA with the following information:
  - i) A description of the discharge and cause of noncompliance;
  - ii) The period of noncompliance, including exact dates and times and/or the anticipated time when the discharge will return to compliance; and
  - iii) Steps being taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge.
- b. The permittee shall report the following circumstances **orally within twenty-four (24) hours** from the time the permittee becomes aware of the circumstances, and shall mail to the Division a written report containing the information requested in Part II.A.4 (a) **within five (5) days** after becoming aware of the following circumstances:
  - i) Circumstances leading to any noncompliance which may endanger health or the environment regardless of the cause of the incident;
  - ii) Circumstances leading to any unanticipated bypass which exceeds any effluent limitations in the permit;
  - iii) Circumstances leading to any upset or spill which causes an exceedance of any effluent limitation in the permit;
  - iv) Daily maximum violations for any of the pollutants limited by Part I.A of this permit and specified as requiring 24-hour notification. This includes any toxic pollutant or hazardous substance or any pollutant specifically identified as the method to control any toxic pollutant or hazardous substance.
- c. The permittee shall report instances of non-compliance which are not required to be reported within 24-hours at the time Discharge Monitoring Reports are submitted. The reports shall contain the information listed in sub-paragraph (a) of this section.

**5. Other Notification Requirements**

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule in the permit shall be submitted no later than fourteen (14) days following each scheduled date, unless otherwise provided by the Division.

The permittee shall notify the Division, in writing, thirty (30) days in advance of a proposed transfer of permit as provided in Part II.B.3.

The permittee's notification of all anticipated noncompliance does not stay any permit condition.

All existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Division as soon as they know or have 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":

- i) One hundred micrograms per liter (100 µg/l);
  - ii) 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 2-methyl-4,6-dinitrophenol; and one milligram per liter (1.0 mg/l) for antimony;
  - iii) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with Section 61.4(2)(g).
  - iv) The level established by the Division in accordance with 40 C.F.R. § 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":
- i) Five hundred micrograms per liter (500 µg/l);
  - ii) One milligram per liter (1 mg/l) for antimony; and
  - iii) Ten (10) times the maximum concentration value reported for that pollutant in the permit application.
  - iv) The level established by the Division in accordance with 40 C.F.R. § 122.44(f).

#### **6. Bypass Notification**

If the permittee knows in advance of the need for a bypass, a notice shall be submitted, at least ten days before the date of the bypass, to the Division. The bypass shall be subject to Division approval and limitations imposed by the Division. Violations of requirements imposed by the Division will constitute a violation of this permit.

#### **7. Upsets**

##### **a. Effect of an Upset**

An upset constitutes an affirmative defense to an action brought for noncompliance with permit effluent limitations if the requirements of paragraph (b) of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

##### **b. Conditions Necessary for a Demonstration of Upset**

A permittee who wishes to establish the affirmative defense of upset shall demonstrate through properly signed contemporaneous operating logs, or other relevant evidence that:

- i) An upset occurred and that the permittee can identify the specific cause(s) of the upset; and
- ii) The permitted facility was at the time being properly operated and maintained; and
- iii) The permittee submitted proper notice of the upset as required in Part II.A.4. of this permit (24-hour notice); and
- iv) The permittee complied with any remedial measure necessary to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

In addition to the demonstration required above, a permittee who wishes to establish the affirmative defense of upset for a violation of effluent limitations based upon water quality standards shall also demonstrate through monitoring, modeling or other methods that the relevant standards were achieved in the receiving water.

c. **Burden of Proof**

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

**8. Discharge Point**

Any discharge to the waters of the State from a point source other than specifically authorized by this permit is prohibited.

**9. 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 as necessary to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance and adequate laboratory and process controls, including 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 necessary to achieve compliance with the conditions of the permit.

**10. Minimization of Adverse Impact**

The permittee shall take all reasonable steps to minimize or prevent any discharge of sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. As necessary, accelerated or additional monitoring to determine the nature and impact of the noncomplying discharge is required.

**11. Removed Substances**

Solids, sludges, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed in accordance with applicable state and federal regulations.

For all domestic wastewater treatment works, at industrial facilities, the permittee shall dispose of sludge in accordance with all State and Federal regulations.

**12. Submission of Incorrect or Incomplete Information**

Where the permittee failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or report to the Division, the permittee shall promptly submit the relevant information which was not submitted or any additional information needed to correct any erroneous information previously submitted.

**13. Bypass**

a. Bypasses are prohibited and the Division may take enforcement action against the permittee for bypass, unless:

- i) The bypass is unavoidable to prevent loss of life, personal injury, or severe property damage;
- ii) There were no feasible alternatives to 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 judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
- iii) Proper notices were submitted in compliance with Part II.A.4.

b. "Severe property damage" as used in this Subsection means substantial physical 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.

c. The permittee may allow a bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance or to assure optimal operation. These bypasses are not subject to the provisions of paragraph (a) above.

- d. The Division may approve an anticipated bypass, after considering adverse effects, if the Division determines that the bypass will meet the conditions specified in paragraph (a) above.

#### **14. Reduction, Loss, or Failure of Treatment Facility**

The permittee has the duty to halt or reduce any activity if necessary to maintain compliance with the effluent limitations of the permit. Upon reduction, loss, or failure of the treatment facility, the permittee shall, to the extent necessary to maintain compliance with its permit, control production, control sources of wastewater, or all discharges, until the facility is restored or an alternative method of treatment is provided. This provision also applies to power failures, unless an alternative power source sufficient to operate the wastewater control facilities is provided.

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

### **B. RESPONSIBILITIES**

#### **1. Inspections and Right to Entry**

The permittee shall allow the Division and/or the authorized representative, upon the presentation of credentials:

- a. To enter upon the permittee's premises where a regulated facility or activity is located or in which any records are required to be kept under the terms and conditions of this permit;
- b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit and to inspect any monitoring equipment or monitoring method required in the permit; and
- c. To enter upon the permittee's premises in a reasonable manner and at a reasonable time to inspect and/or investigate, any actual, suspected, or potential source of water pollution, or to ascertain compliance or non compliance with the Colorado Water Quality Control Act or any other applicable state or federal statute or regulation or any order promulgated by the Division. The investigation may include, but is not limited to, the following: sampling of any discharge and/or process waters, the taking of photographs, interviewing of any person having knowledge related to the discharge permit or alleged violation, access to any and all facilities or areas within the permittee's premises that may have any affect on the discharge, permit, or alleged violation. Such entry is also authorized for the purpose of inspecting and copying records required to be kept concerning any effluent source.
- d. The permittee shall provide access to the Division to sample the discharge at a point after the final treatment process but prior to the discharge mixing with state waters upon presentation of proper credentials.

In the making of such inspections, investigations, and determinations, the Division, insofar as practicable, may designate as its authorized representatives any qualified personnel of the Department of Agriculture. The Division may also request assistance from any other state or local agency or institution.

#### **2. Duty to Provide Information**

The permittee shall furnish to the Division, within a reasonable time, any information which the Division 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 Division, upon request, copies of records required to be kept by this permit.

#### **3. Transfer of Ownership or Control**

- a. Except as provided in paragraph b. of this section, a permit may be transferred by a permittee only if the permit has been modified or revoked and reissued as provided in Section 61.8(8) of the Colorado Discharge Permit System Regulations, to identify the new permittee and to incorporate such other requirements as may be necessary under the Federal Act.
- b. A permit may be automatically transferred to a new permittee if:
  - i) The current permittee notifies the Division in writing 30 days in advance of the proposed transfer date; and

- ii) The notice includes a written agreement between the existing and new permittee(s) containing a specific date for transfer of permit responsibility, coverage and liability between them; and
- iii) The Division does not notify the existing permittee and the proposed new permittee of its intent to modify, or revoke and reissue the permit.
- iv) Fee requirements of the Colorado Discharge Permit System Regulations, Section 61.15, have been met.

#### **4. Availability of Reports**

Except for data determined to be confidential under Section 308 of the Federal Clean Water Act and the Colorado Discharge Permit System Regulations 5 CCR 1002-61, Section 61.5(4), all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Division and the Environmental Protection Agency.

The name and address of the permit applicant(s) and permittee(s), permit applications, permits and effluent data shall not be considered confidential. Knowingly making false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Federal Clean Water Act, and Section 25-8-610 C.R.S.

#### **5. Modification, Suspension, Revocation, or Termination of Permits By the Division**

The filing of a request by the permittee for a permit modification, revocation and reissuance, termination or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

- a. A permit may be modified, suspended, or terminated in whole or in part during its term for reasons determined by the Division including, but not limited to, the following:
  - i) Violation of any terms or conditions of the permit;
  - ii) Obtaining a permit by misrepresentation or failing to disclose any fact which is material to the granting or denial of a permit or to the establishment of terms or conditions of the permit; or
  - iii) Materially false or inaccurate statements or information in the permit application or the permit.
  - iv) A determination that the permitted activity endangers human health or the classified or existing uses of state waters and can only be regulated to acceptable levels by permit modifications or termination.
- b. A permit may be modified in whole or in part for the following causes, provided that such modification complies with the provisions of Section 61.10 of the Colorado Discharge Permit System Regulations:
  - i) There are material and substantial alterations or additions to the permitted facility or activity which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit.
  - ii) The Division has received new information which was not available at the time of permit issuance (other than revised regulations, guidance, or test methods) and which would have justified the application of different permit conditions at the time of issuance. For permits issued to new sources or new dischargers, this cause includes information derived from effluent testing required under Section 61.4(7)(e) of the Colorado Discharge Permit System Regulations. This provision allows a modification of the permit to include conditions that are less stringent than the existing permit only to the extent allowed under Section 61.10 of the Colorado Discharge Permit System Regulations.
  - iii) The standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued. Permits may be modified during their terms for this cause only as follows:
    - (A) The permit condition requested to be modified was based on a promulgated effluent limitation guideline, EPA approved water quality standard, or an effluent limitation set forth in 5 CCR 1002-62, § 62 et seq.; and

- (B) EPA has revised, withdrawn, or modified that portion of the regulation or effluent limitation guideline on which the permit condition was based, or has approved a Commission action with respect to the water quality standard or effluent limitation on which the permit condition was based; and
  - (C) The permittee requests modification after the notice of final action by which the EPA effluent limitation guideline, water quality standard, or effluent limitation is revised, withdrawn, or modified; or
  - (D) For judicial decisions, a court of competent jurisdiction has remanded and stayed EPA promulgated regulations or effluent limitation guidelines, if the remand and stay concern that portion of the regulations or guidelines on which the permit condition was based and a request is filed by the permittee in accordance with this Regulation, within ninety (90) days of judicial remand.
- iv) The Division determines that good cause exists to modify a permit condition because of events over which the permittee has no control and for which there is no reasonable available remedy.
  - v) The permittee has received a variance.
  - vi) When required to incorporate applicable toxic effluent limitation or standards adopted pursuant to § 307(a) of the Federal act.
  - vii) When required by the reopener conditions in the permit.
  - viii) As necessary under 40 C.F.R. 403.8(e), to include a compliance schedule for the development of a pretreatment program.
  - ix) When the level of discharge of any pollutant which is not limited in the permit exceeds the level which can be achieved by the technology-based treatment requirements appropriate to the permittee under Section 61.8(2) of the Colorado Discharge Permit System Regulations.
  - x) To establish a pollutant notification level required in Section 61.8(5) of the Colorado Discharge Permit System Regulations.
  - xi) To correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions, to the extent allowed in Section 61.10 of the Colorado State Discharge Permit System Regulations.
  - xii) When required by a permit condition to incorporate a land application plan for beneficial reuse of sewage sludge, to revise an existing land application plan, or to add a land application plan.
  - xiii) For any other cause provided in Section 61.10 of the Colorado Discharge Permit System Regulations.
- c. At the request of a permittee, the Division may modify or terminate a permit and issue a new permit if the following conditions are met:
    - i) The Regional Administrator has been notified of the proposed modification or termination and does not object in writing within thirty (30) days of receipt of notification,
    - ii) The Division finds that the permittee has shown reasonable grounds consistent with the Federal and State statutes and regulations for such modifications or termination;
    - iii) Requirements of Section 61.15 of the Colorado Discharge Permit System Regulations have been met, and
    - iv) Requirements of public notice have been met.
  - d. Permit modification (except for minor modifications), termination or revocation and reissuance actions shall be subject to the requirements of Sections 61.5(2), 61.5(3), 61.6, 61.7 and 61.15 of the Colorado Discharge Permit System Regulations. The Division shall act on a permit modification request, other than minor modification requests, within 180

days of receipt thereof. Except for minor modifications, the terms of the existing permit govern and are enforceable until the newly issued permit is formally modified or revoked and reissued following public notice.

- e. Upon consent by the permittee, the Division may make minor permit modifications without following the requirements of Sections 61.5(2), 61.5(3), 61.7, and 61.15 of the Colorado Discharge Permit System Regulations. Minor modifications to permits are limited to:
  - i) Correcting typographical errors; or
  - ii) Increasing the frequency of monitoring or reporting by the permittee; or
  - iii) Changing an interim date in a schedule of compliance, provided the new date of compliance is not more than 120 days after the date specific in the existing permit and does not interfere with attainment of the final compliance date requirement; or
  - iv) Allowing for a transfer in ownership or operational control of a facility where the Division determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittees has been submitted to the Division; or
  - v) Changing the construction schedule for a discharger which is a new source, but no such change shall affect a discharger's obligation to have all pollution control equipment installed and in operation prior to discharge; or
  - vi) Deleting a point source outfall when the discharge from that outfall is terminated and does not result in discharge of pollutants from other outfalls except in accordance with permit limits.
- f. When a permit is modified, only the conditions subject to modification are reopened. If a permit is revoked and reissued, the entire permit is reopened and subject to revision and the permit is reissued for a new term.
- g. The filing of a request by the permittee for a permit modification, revocation and reissuance or termination does not stay any permit condition.
- h. All permit modifications and reissuances are subject to the antibacksliding provisions set forth in 61.10(e) through (g).

#### **6. 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 to under Section 311 (Oil and Hazardous Substance Liability) of the Clean Water Act.

#### **7. 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 law or regulation under authority granted by Section 510 of the Clean Water Act.

#### **8. Permit Violations**

Failure to comply with any terms and/or conditions of this permit shall be a violation of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit.

#### **9. Property Rights**

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

**10. Severability**

The provisions of this permit are severable. If any provisions 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 application of the remainder of this permit shall not be affected.

**11. Renewal Application**

If the permittee desires to continue to discharge, a permit renewal application shall be submitted at least one hundred eighty (180) days before this permit expires. If the permittee anticipates there will be no discharge after the expiration date of this permit, the Division should be promptly notified so that it can terminate the permit in accordance with Part II.B.5.

**12. Confidentiality**

Any information relating to any secret process, method of manufacture or production, or sales or marketing data which has been declared confidential by the permittee, and which may be acquired, ascertained, or discovered, whether in any sampling investigation, emergency investigation, or otherwise, shall not be publicly disclosed by any member, officer, or employee of the Commission or the Division, but shall be kept confidential. Any person seeking to invoke the protection of this Subsection (12) shall bear the burden of proving its applicability. This section shall never be interpreted as preventing full disclosure of effluent data.

**13. Fees**

The permittee is required to submit payment of an annual fee as set forth in the 2005 amendments to the Water Quality Control Act. Section 25-8-502 (1) (b), and the Colorado Discharge Permit System Regulations 5 CCR 1002-61, Section 61.15 as amended. Failure to submit the required fee when due and payable is a violation of the permit and will result in enforcement action pursuant to Section 25-8-601 et. seq., C.R.S. 1973 as amended.

**14. Duration of Permit**

The duration of a permit shall be for a fixed term and shall not exceed five (5) years. Filing of a timely and complete application shall cause the expired permit to continue in force to the effective date of the new permit. The permit's duration may be extended only through administrative extensions and not through interim modifications.

**15. Section 307 Toxics**

If a toxic effluent standard or prohibition, including any applicable schedule of compliance specified, is established by regulation pursuant to Section 307 of the Federal Act for a toxic pollutant which is present in the permittee's discharge and such standard or prohibition is more stringent than any limitation upon such pollutant in the discharge permit, the Division shall institute proceedings to modify or revoke and reissue the permit to conform to the toxic effluent standard or prohibition.

**16. Antibacksliding**

- a. A permit may not be renewed, reissued, or modified to contain effluent limitations adopted pursuant to Section 25-8-503(1)(b) (BPJ) of the Water Quality Control Act, which are less stringent than the comparable effluent limitations or standards in the previous permit, unless any one of the following exceptions is met and the conditions of paragraph (c) of this section are met:
  - i) Material and substantial alterations or additions to the permitted facility occurred after permit issuance which justify the application of less stringent effluent limitations; or
  - ii) Information is available which was not available at the time of permit issuance (other than revised regulations, guidance, or test methods) and which would have justified the application of a less stringent effluent limitation or standard at the time of permit issuance; or
  - iii) The Division determines that technical mistakes or mistaken interpretations of law were made in issuing the permit, which justified relaxation of the effluent limitations or standards; or

- iv) A less stringent effluent limitation or standard is necessary because of events over which the permittee has no control and for which there is not reasonable available remedy; or
  - v) The permittee has received a permit variance; or
  - vi) The permittee has installed the treatment facilities required to meet the effluent limitations in the previous permit and has properly operated and maintained the facilities but has nevertheless been unable to achieve the previous effluent limitations, in which case, the limitations in the renewed, reissued, or modified permit may reflect the level of pollutant control actually achieved (but shall not be less stringent than required by effluent guidelines in effect at the time of permit renewal, reissuance, or modification).
- b. A permit may not be renewed, reissued, or modified to contain effluent limitations adopted pursuant to 61.8(2(b) or (c) of the Colorado Discharge Permit System Regulations that are less stringent than the comparable effluent limitations in the previous permit, unless any of the exceptions provided herein is met and the conditions of paragraph c. of this section are met.
- i) In waters where the applicable water quality standard has not yet been attained, effluent limitations based on a total maximum daily load or other waste load allocation may be revised to be less stringent if the cumulative effect of all such revisions assures attainment of such water quality standard, or the designated use which is not being attained is removed in accordance with Section 31.6 of the Basic Standards.
  - ii) In waters where the applicable water quality standard has been attained, effluent limitations based on a total maximum daily load, other waste load allocation, or any other permitting standard (including any water quality standard) may be revised to be less stringent if such revision is subject to and consistent with the antidegradation provisions of Section 31.8 of the Basic Standards. Consistency with Section 31.8 shall be presumed if the waters in question have been designated by the Commission as "use protected"; or
  - iii) Whether or not the applicable water quality standard has been attained:
    - (A) Material and substantial alterations or additions to the permitted facility occurred after permit issuance which justified the application of less stringent effluent limitations; or
    - (B) A less stringent effluent limitation is necessary because of events over which the permittee has no control and for which there is not reasonable available remedy; or
    - (C) The permittee has received a permit variance; or
    - (D) The permittee has installed the treatment facilities required to meet the effluent limitations in the previous permit and has properly operated and maintained the facilities but has nevertheless been unable to achieve the previous effluent limitations, in which case, the limitations in the reviewed, reissued, or modified permit may reflect the level of pollutant control actually achieved (but shall not be less stringent than required by effluent guidelines in effect at the time of permit renewal, reissuance, or modification).
- c. In no event may a permit with respect to which paragraphs (a) and (b) of this section apply be renewed, reissued, or modified to contain an effluent limitation or standard which is less stringent than required by federal effluent guidelines in effect at the time the permit is renewed, reissued, or modified. In no event may such a permit to discharge into state waters be renewed, reissued, or modified to contain a less stringent effluent limitation if the implementation of such limitation would result in a violation of an applicable water quality standard.

## **17. Effect of Permit Issuance**

- a. The issuance of a permit does not convey any property rights or any exclusive privilege.
- b. The issuance of a permit does not authorize any injury to person or property or any invasion of personal rights, nor does it authorize the infringement of federal, state, or local laws or regulations.
- c. Except for any toxic effluent standard or prohibition imposed under Section 307 of the Federal act or any standard for sewage sludge use or disposal under Section 405(d) of the Federal act, compliance with a permit during its term

constitutes compliance, for purposes of enforcement, with Sections 301, 302, 306, 318, 403, and 405(a) and (b) of the Federal act. However, a permit may be modified, revoked and reissued, or terminated during its term for cause as set forth in Section 61.8(8) of the Colorado Discharge Permit System Regulations.

- d. Compliance with a permit condition which implements a particular standard for sewage sludge use or disposal shall be an affirmative defense in any enforcement action brought for a violation of that standard for sewage sludge use or disposal.