



PERMIT FACT SHEET

This document is purely informational and acts as a supplement to your permit. Any clerical discrepancies with your permit does not relieve your facility of any responsibilities presented in your permit, City Code, or federal regulations. For any additional guidance or clarification, please contact the City of Greeley's Industrial Pretreatment Program.

Section A – Facility Information

Facility Name	12 th Street Stormwater Improvements		
Facility Physical Address	201 10 th St, Greeley, CO 80631		
Billing Account Number	800-753939		
SIC Code	1623		
Does this SIC Code require a Stormwater Permit?	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
If applicable, does this facility have a Stormwater Permit?	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
Stormwater permit number			
Does this SIC Code have an associated Industrial Category?	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
If applicable, provide 40 CFR part number	Not applicable.		

Section B – Description of Operation

Stormwater improvement construction project groundwater dewatering for Sheet Pile 26.00 near Segment 12a of the Cache la Poudre River

Section C – Wastewater Description

1. Wastewater Production

<u>Process</u>	<u>Volume</u>
Total Site Groundwater dewatering	600,000 gpd
Sheet Pile 26.00 dewatering	80,000
TOTAL TO WTRF	80,000 gpd

2. Outfall Description

Outfall 01

The discharge of construction dewatering groundwater by Connell Resources, Inc. from the 12th Street Stormwater Improvements Project from Outfalls 004-AU, 005-AU and 007-AU as identified in the permit application for State of Colorado General Permit #COG 0080000 Certification COG080683. The point of discharge is MH F (MH 07-00.003)

3. Flow Measuring Device

Flow is measured using a Grayline, Ultrasonic, Model OCF-IVA4, Serial #17899;

4. Discharge Flow Characteristics

Batch ☐

Intermittent ☐

Continuous ☒

5. Production Rates

Product	Average Volume	Frequency
Total site dewatering groundwater	600,000 gallons	Daily
Sheet Pile 26.00 dewatering groundwater discharge to WTRF	80,000	Daily

Section D – Permittee Monitoring Summary

Pollutant or Pollutant Property	12 th Street Stormwater Improvements Groundwater (Avg, mg/L))	12 th Street Stormwater Improvements Groundwater (Max. mg/L))
Flow (gpd)	unknown	unknown
TSS (mg/L)	1894	1894
Oil and Grease, Total (mg/L)	No data	No data
Aluminum	44.95	61.5
Arsenic, Total	0.0185	0.0211
Barium, Total	0.881	1.16
Bis-2-ethylhexyl phthalate	0.0045	0.0045
Cadmium, Total	0.002305	0.00341
Hexavalent Chromium, Total	0.013	0.013
Chromium, Total	0.0354	0.0354
Copper, Total	0.12455	0.0169
Cyanide, Total		
Iron, Total	54.75	75.70
Lead, Total	0.012	0.191
Mercury, Total	0.00006	0.00012
Molybdenum, Total	0.0026	0.0032

Naphthalene	0.0004	0.0012
Nickel, Total	0.0586	0.089
Selenium, Total	0.00435	0.0059
Silver, Total	0.002	0.004
Zinc, Total	0.405	0.639
pH	No data	No Data
Benzene	0.00016	0.00032
BTEX	0.01105	0.00221

Section E – IU Status Determination

1. This IU has been determined to be a(n):

Non-SIU– ☒

SIU ☐

CIU ☐

NSCIU ☐

Rationale (Check all that apply)

Discharge greater than 25,000 gpd ☒

Subject to a Categorical Pretreatment Standard ☐

Contribute a process wastestream greater than 5% WTRF design capacity ☐

Reasonable potential to adversely affect the POTW ☒

2. Categorical Determination

Not applicable.

Section F – Permit Limit Basis

1. Permit Application Documents

The permit application was submitted on November 3, 2023. The application is available upon request.

2. Literature References

EPA's Guidance Manual on the Development and Implementation of Local Discharge Limitations Under the Pretreatment Program was used in developing local limits.

Code of Colorado Regulations, Water Quality Control Commission, 5 CCR 1002-38, Regulation #38 Stream Classifications and Water Quality Standards, Cache La Poudre River Basin, COSPCP12A and COSPCP12B.

Code of Colorado Regulations, Water Quality Control Commission Regulation No. 31 - The Basic Standards and Methodologies for Surface Water, 5 CCR 1002-31.

3. Enforcement Summary

There are no violations reported

4. Facility Layout and Process Flow Diagrams

<https://greeleyco.sharepoint.com/sites/WS/Migrated/W&S/WPCF/IPP/12th%20St%20Stormwater/Connell%20SW%20Project%20Overhead%20Pic.jpg>

5. Pretreatment System Description

Pollutant control measures and prior to discharge to the Greeley sanitary sewer system. Where a sediment basin is the control measure implemented, a sample must be collected after discharge/overflow from the sediment basin and prior to discharge into the Greeley sanitary sewer system. Groundwater will be pumped into a weir box to separate sand and silt. The permittee shall not discharge any ground water from the vicinity of any known site contamination areas. In the event that a visible oil and grease sheen or solvent odor is noticed, the permittee shall cease the discharge and report immediately to the Control Authority as required in Part 7., D. Monitoring and analysis for BTEX or certain pollutants limited or suspected to be present may be required. The Control Authority may require additional pretreatment to remove the pollutants before the discharge can be continued.

Section G – Enforcement History (last 3 years)

<u>Enforcement Case Number</u>	<u>Date</u>	<u>Reason</u>
None reported		

Section H – Permit Condition Development Rationale

1. Flow

Continuous flow monitoring is required because of the high volume of the discharge. The daily flows are required to be submitted monthly. The maximum flow that can be pumped is 77,760 gpd at 54 gpm. 80,000 gpd maximum flow provides a safety factor.

2. pH

The pH is sampled as a grab since the value may change with storage or compositing. Analysis is performed on-site within 15 minutes of collection. pH is required to be monitored and reported monthly to ensure that low pH conditions do not occur. Low pH can lead to Hydrogen Sulfide issues in the sewer.

3. Biochemical Oxygen Demand

Not required

4. Total Suspended Solids

The type of sample defined in the permit is a grab as this was required under the State of Colorado General Permit #COG 0080000 Certification COG080683. The TSS limit is a temporary allocation from the IPP local limits and expressed as concentration based upon the maximum flow of 80,000 gpd. 1264 lbs/day is allocated from the Local Limit of 13,176 lbs in Section 20-424 (a), Table 14-11-A, of the Pretreatment Chapter of the City Code. The allocated limit is below the combined total of TSS Maximum Allowable Industrial Loading (MAIL).

5. Prohibited Discharge Standards

The Prohibited Discharge Standards of Chapter 20-421 of the City Code shall be applied.

6. Oil and Grease

Oil and Grease is limited as a visual report which may trigger an event that a visible oil and grease sheen or solvent odor is noticed in the discharge water, the permittee shall cease the discharge and report immediately to the Control Authority as required in Part 7., D. Monitoring and shall analyze for BTEX and/or certain pollutants limited or suspected to be present may be required. The Prohibited Discharge Standards of Chapter 20-421 (2), (c.) and (g) of the City Code shall be applied.

7. Organic Pollutants

Benzene, BTEX and Naphthalene are required as grab samples because of the presence from contaminated soils found on the site near dewatering wells and discharge points under the State of Colorado General Permit #COG 0080000 Certification COG080683. and Fact Sheet. The Local Limits for Benzene and BTEX are 50 ug/L and 750 ug/L respectively, found in Section 20-424 (a), Table 14-11-A, are applied, and are based on BAT standards using air stripping. Naphthalene was evaluated using the EPA Gold Book aquatic life chronic standard of 620 ug/L. The resulting Maximum Allowable Headworks Loading (MAHL) was determined to be protective of the aquatic life standard. Naphthalene has no Local Limit and shall be limited as Report only and may required upon notice of visual sheen or odor.

8. Nutrients

Not required

9. Metals

The type of sample defined in the permit is a grab as this was required under the State of Colorado General Permit #COG 0080000 Certification COG080683. Metals limits are a temporary allocation from the IPP local limits and expressed as concentrations based upon the maximum flow of 80,000 gpd planned to be discharged. The allocated limits are below the combined total of MAIL for each pollutant parameter in the [2023 MAHL Review.xlsx](#) spreadsheet. The limits for metals were compared to the proposed discharge and were determined to be protective of the approved limits in Section 20-424 (a), Table 14-11-A of the City Code. Aluminum was evaluated using Colorado Water Quality Standards of Regulation No. 31 - The Basic Standards and Methodologies for Surface Water, 5 CCR 1002-31, using the Table Value Standard for chronic aquatic life of 1438 ug/L and applying a Hardness of 226 mg/L. The resulting MAHL was determined to be protective of the aquatic life standard. Aluminum and Iron have no Local Limit and therefore are a report only parameter.

10. Cyanide

The type of sample defined in the permit is a grab. The Cyanide limit is a temporary allocation from the IPP local limits and expressed as concentration based upon the maximum flow of 80,000 gpd. 0.227 lbs/day is allocated from the Local Limit of 1.170 lbs in Section 20-424 (a), Table 14-11-A, of the Pretreatment Chapter of the City Code. The allocated limit is below the combined total of TSS Maximum Allowable Industrial Loading (MAIL).

11. Slug Control Plan Evaluation

Not required

Section I – Limit Calculations

Local Limits

The calculations and supporting documentation for the local limits developed in 2008, 2011 and 2013 are located in the City of Greeley's Industrial Monitoring/Pretreatment Program Document.

Calculations for evaluating this specific discharge are found at [region 8 local limits spreadsheet 12 Street Stormwater Project PEL.xls](#) or are available upon request.

The allocations of metal limits for this permit are found at : [2023 MAHL Review.xlsx](#) or are available upon request.

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