# STATE OF COLORADO

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Dedicated to protecting and improving the health and environment of the people of Colorado

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Colorado Department of Public Health and Environment

October 17, 2013

Jeffrey Groy
CBS Operations Inc
333 W Wacker Dr 27th Fl
Chicago, CO 81645

Subject: Compliance Inspection of Industrial Wastewater Treatment Facility
Colorado Discharge Permit Systems (CDPS) No. CO0042480, Eagle Mine
Eagle County

Dear Mr. Jeffrey Groy:

This letter serves to report the results of the compliance inspection(s) conducted by the Field Services Section of the Water Quality Control Division (the Division) on the above referenced facility on September 12, 2013. The assistance that was provided was very helpful and is greatly appreciated. Table 1 identifies the parties present during the compliance inspection.

**Table 1: Parties Present**

| Name | Organization |
|---|---|
| Don Houston | Environ |
| Michelle White | Environ |
| Blaine Kinkel | Environ |
| Heather Drissel, PE | CDPHE – Water Quality Control Division |
| Wendy Naugle, PE | CDPHE – Hazardous Materials and Waste Management Division |
| Tom Schaffer, PE | CDPHE – Water Quality Control Division |

## Violations

These items require action by the permittee. The Permittee's written response to this letter must include all items listed in this category.

The following alleged violations of the CDPS permit, Colorado Revised Statutes, and/or the associated regulations were identified during the inspection and must be addressed:

1. C0018-1 - Monitoring Violations - Improper Analysis or Lab Error. Appropriate laboratory methods, quality control procedures, or documentation not being used and/or the information not reasonably available for inspection.

   Part 1. D. 3. of CO0042480 requires all sampling and analytical methods in accordance with 40 CFR 136 and Part 1. D. 4. of CO0042480 requires the permittee to establish and maintain sampling records that include: i) the date, type, exact place, and time of sampling or measurements, ii) the individual(s) who performed the sampling or measurements, iii) the date(s) the analyses were performed, iv) the

individual(s) who performed the analyses, v) the analytical techniques or methods used, and vi) the results of such analyses. During the inspection, the Division reviewed laboratory bench sheets, documentation, and general sampling approach and analytical protocols. The analytical parameters of pH, is being analyzed at the onsite laboratory and records of sample times and analysis times are not being recorded to ensure that the samples are analyzed within the hold time of 15 minutes as required in Table II of 40 CFR 136.3. Although the analyses are typically conducted in the laboratory when the laboratory analyst returns to the on-site laboratory following collection, the permitee's Standard Operating Procedures (SOPs) also do not require the analysis be completed within the hold time of 15 minutes as required in Table II of 40 CFR 136.3.

After the inspection, the permitee provided the Division with an updated procedure for pH sampling as well as a bench sheet that contains all of the required information to address this alleged violation. Therefore, no additional response is necessary.

**Observations/Recommendations**

While the Division will not directly follow-up on these items, it is highly recommended that the Permittee address these items.

The following items are observations and/or recommendations that will enable the facility to better conform to requirements of the associated CDPS permit(s), Colorado Revised Statutes, associated regulations, or other industry standards.

1. Secondary Flow Device Accuracy Determination
   Part I. D. 5. of CDPS No. CO0042480 requires the permittee to be able to show proof of the accuracy of any flow measuring device used in obtaining data submitted in the monitoring report, at the request of the Division. The permittee periodically has an outside vendor calibrate flow meters; however the permittee does not routinely compare the primary and secondary flow measurement devices (i.e., flume depth and chart value compared to flow meter readings) at the effluent compliance point. In addition to the vendor calibration, it is recommended that the permittee perform and record regular (e.g., monthly) flow rate checks using flume tables and staff gauge depth readings to check the secondary flow indicators (i.e., flow meter readings) to determine if the meter is drifting (i.e., +/-10% agreement needed). By conducting periodic in-house flow meter checks as part of the standard Operations and Maintenance program, any deviations from the +/- 10% accuracy requirement can be promptly identified and the outside vendor can be contacted to service the unit.

2. Collection System Spills/Overflows
   During the inspection, the Division reviewed with the permitee the history of spills that have occurred from the collection system. Of the five spills reported to the Division over the last three years, one was a treatment plant upset (computer programming error which has been corrected), one was a seep and has been addressed with the Hazardous Materials and Solid Waste Division, and three were overflows/breaks of the collection system. To prevent spills, the permittee has implemented the following programs:

   Inspection Program: An inspection program for the collection system to identify and address any spill that might occur has been implemented by the permittee. Personnel do daily visual checks of the collection system and flows into the plant are monitored to identify any leakage from the collection system. It is recommended that the permittee continue the visual inspection program for the collection system.

   Control System Upgrades: As mentioned above, the permittee has also been working with a control system programmer to make routine upgrades to the control system programming for the WWTF. As discussed during the inspection, it is recommended that the permittee continue these efforts and compile a list of all control system alarms and interlocks to identify areas that could be optimized to prevent treatment plant upsets and spills.

3. Operation and Maintenance Manual (O&M Manual)
   The permittee has an Operation and Maintenance (O&M) Manual. The Division encourages the permittee to regularly update information in the O&M Manual and include a schedule to identify and anticipate maintenance actions. In addition it is recommended that the permittee include the control system documentation mentioned above in the Operations and Maintenance Manual.

4. Emergency Response Plan
   An Emergency Response Plan has been drafted and reviewed by the appropriate agencies. The Emergency Response Plan was created as part of the Remedial Action Plan overseen by the Hazardous Materials and Waste Management Division. It is expected that the Emergency Response Plan will be finalized in the near future.

5. Fume Hood
   While discussing possible needs at the facility, the inability to do metals testing on site was reviewed. In order to do the low detection level metals testing required by the permit, a fume hood would be required in the WWTF laboratory. It is recommended that the permittee evaluate the benefit of in-house metals testing and determine whether the cost of a fume hood and other analytical equipment would help optimize control of the WWTF in comparison to outsourced laboratory analysis..

6. Permit Renewal
   If the permittee desires to continue to discharge, in accordance with Part II.B.11 of Permit No. CO0042480, a permit renewal application shall be submitted at least 180 days before this permit expires. The permit expires on July 31, 2014. Please contact the WQCD Permits Section to discuss the permit renewal process.

**Reminders**

- Sanitary sewer overflows (SSO) and any other spills that may impact state waters are required by law to be reported to the Department in accordance with the Division's *Guidance for Reporting Spills under the Colorado Water Quality Control Act and Colorado Discharge Permits*, which is available on the Division's web page at http://www.colorado.gov/cs/Satellite/CDPHE-WQ/CBON/1251596793720 . The Department's 24-hour toll-free number for environmental release and incident reporting is 877-518-5608.
- Construction of interceptor sewers, lift stations, and treatment plants, including modification/expansion of existing facilities, requires site location and design approval prior to commencement of construction. Please refer to the Engineering Section's web page at http://www.colorado.gov/cs/Satellite/CDPHE-WQ/CBON/1251629028615 for information regarding these requirements.
- Most regulations, guidance documents, and forms are available via Internet on the Department's website. Please link to http://www.colorado.gov/CDPHE/WQCD for further information. You can link directly to the Field Services Section webpage at http://www.colorado.gov/cs/Satellite/CDPHE-WQ/CBON/1251628721854

Enclosed with this letter you will find a postage paid Customer Satisfaction Survey Postcard. Please take a few moments to complete the survey and return it to the Division. Your efforts to provide feedback to improve the inspection process are appreciated.

If you have any questions, please contact me by phone at (970) 248-7152 or via e-mail at tom.schaffer@state.co.us. Thank you for your time and cooperation.

Sincerely,

Tom Schaffer, PE, Senior Field Engineer
Field Services Section
Water Quality Control Division
Colorado Department of Public Health and Environment

Encl.
Inspection Report

cc: EPA Region VIII, NPDES Unit, Water Technical Enforcement Program
Eagle County Environmental Health
Permit File, CDPS No. CO0042480
Grand Junction Permit File, CDPS No. CO0042480

Jeff Naumoff, ORC, Environ Corp
Don Houston, Manager, Environ Corp
Michelle White, Operator, Environ Corp
Heather Drissel, Field Services Section, Field Unit #2 Manager
Wendy Naugle, HMWM Division

Colorado Department of Public Health and Environment

# Water Compliance Inspection Report

Water Quality Control Division
4300 Cherry Creek Drive South
Denver, CO 80246
http://www.colorado.gov/CDPHE/WQCD

## Section A: National Data System Coding (i.e., ICIS)

| | | | | | |
|---|---|---|---|---|---|
| Inspection Date: | 9/12/2013 | Inspector: | State | | |
| Permit Inspected: | CDPS # | Inspection Type | Program | Facility Self-Monitoring Evaluation Rating | |
| Process | CO0042480 | Compliance Evaluation | NPDES Base Program | Satisfactory | |

## Section B: Facility Data

Name and Location of Facility Inspected *(For industrial users discharging to POTW, also include POTW name and NPDES permit number.)*

| | | | |
|---|---|---|---|
| Name | EAGLE MINE REMEDIATION WWTP | | |
| Address | 47 TIGIWON ROAD | | |
| City, State, Zip | MINTURN | CO | 81645 |
| If industrial, POTW name & CDPS number: | | | |

| Entry | | Permit Effective Date |
|---|---|---|
| Date | 9/12/2013 | |
| Time | 10:00 AM | 8/1/2009 |
| **Exit** | | **Permit Expiration Date** |
| Date | 9/12/2013 | 7/31/2014 |
| Time | 3:30 PM | Effective |

Name(s) of On-Site Representative(s) / Title / Phone / Email

| | | | |
|---|---|---|---|
| Name | Don Houston | Name | Michelle White |
| Title | Manager | Title | ORC |
| Company | Environ | Company | Environ |
| Address | 5307 Evanston Ave | Address | |
| City, State, Zip | Muskegon, MI 49442 | City, State, Zip | |
| Phone | 231-778-4934 | Phone | 970-827-5523 |
| Email | dhouston@environcorp.com | Email | mwhite@environcorp.com |

Processes Which Generate Wastewater:

Mine drainage

Name / Contact info of Responsible Official

| | |
|---|---|
| Name | Jeffrey Groy |
| Title | Vice President |
| Company | CBS Operations Inc |
| Address | 333 W Wacker Dr 27th Fl |
| City, State, Zip | Chicago , IL 81645 |
| Phone | 801-359-3193 |
| Email | jeff.groy@cbs.com |

Treatment Process Description:

Treatment consists of physical/chemical treatment via lime precipation. Mine drainage enters storage ponds. It then is pumped to the first reactor tank where dry lime is added and mixed with a paddle-type mixer. pH is raised to 10.1 in this process. From there water flows into the second reactor where soda ash is fed along with polymer and mixed with a paddle mixer. Water then flows into the reactor clarifier where the flock settles. The sludge goes to plate and frame presses and the solids go to an onsite lined disposal area. The supernatent goes to pH adjustment and then is discharged.

Permitted Features

| | | | | | |
|---|---|---|---|---|---|
| Feature: | 001A | 0 | 0 | 0 | 0 |
| Lat (DD): | 39.561265 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Long (DD): | -106.403312 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

## Section C: Areas Evaluated During Inspection *(included in letter if unsatisfactory)*

| | | | | | |
|---|---|---|---|---|---|
| Satisfactory | Permit | Satisfactory | Self-Monitoring Program | Not Applicable | Pollution Prevention |
| Satisfactory | Records / Reports | Satisfactory | Compliance Schedules | Not Applicable | Stormwater |
| Satisfactory | Facility Site Review | Marginal | Laboratory | Not Applicable | Combined Sewer Overflow |
| Satisfactory | Effluent / Receiving Waters | Satisfactory | Operations & Maintenance | Not Applicable | Sanitary Sewer Overflow |
| Satisfactory | Flow Measurement | Satisfactory | Sludge Handling / Disposal | Not Applicable | MS4 |
| Satisfactory | Operator in Responsible Charge | Not Applicable | Pretreatment | | |

DMR Period Evaluated - Start: 6/1/2010 End: 7/31/2013

## Section D: Summary of Findings / Comments *(see inspection letter for details)*

| Violation Code | Description |
|---|---|
| C0018-1 | Appropriate laboratory methods, quality control procedures, or documentation not being used and/or the information not reasonably available for inspection. |

| Name of Inspector | Phone | Email | Agency | Office |
|---|---|---|---|---|
| Tom Schaffer, PE | (970) 248-7152 | tom.schaffer@state.co.us | CDPHE, Water Quality Control Division | Grand Junction |