




**MINERALS PROGRAM INSPECTION REPORT**  
**PHONE: (303) 866-3567**

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

|                                                                    |                                                                                                                    |                                                                    |                             |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------|
| <b>MINE NAME:</b><br>NCCI Pit #1                                   | <b>MINE/PROSPECTING ID#:</b><br>M-2001-107                                                                         | <b>MINERAL:</b><br>Sand and gravel                                 | <b>COUNTY:</b><br>Weld      |
| <b>INSPECTION TYPE:</b><br>Surety-Related Inspection               | <b>WEATHER:</b> Clear                                                                                              | <b>INSP. DATE:</b><br>January 14, 2025                             | <b>INSP. TIME:</b><br>12:00 |
| <b>OPERATOR:</b><br>Northern Colorado Constructors, Inc. Aggregate | <b>OPERATOR REPRESENTATIVE:</b><br>Chris Zadel and JC York                                                         | <b>TYPE OF OPERATION:</b><br>112c - Construction Regular Operation |                             |
| <b>REASON FOR INSPECTION:</b><br>Surety Related                    | <b>BOND CALCULATION TYPE:</b><br>Partial Bond                                                                      | <b>BOND AMOUNT:</b><br>\$348,441.00                                |                             |
| <b>DATE OF COMPLAINT:</b><br>NA                                    | <b>POST INSP. CONTACTS:</b><br>None                                                                                | <b>JOINT INSP. AGENCY:</b><br>None                                 |                             |
| <b>INSPECTOR(S):</b><br>Patrick Lennberg                           | <b>INSPECTOR'S SIGNATURE:</b><br> | <b>SIGNATURE DATE:</b><br>January 22, 2025                         |                             |

**GENERAL INSPECTION TOPICS**

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

|                                            |                                          |                                 |
|--------------------------------------------|------------------------------------------|---------------------------------|
| (AR) RECORDS----- <u>N</u>                 | (FN) FINANCIAL WARRANTY----- <u>Y</u>    | (RD) ROADS----- <u>Y</u>        |
| (HB) HYDROLOGIC BALANCE----- <u>Y</u>      | (BG) BACKFILL & GRADING----- <u>Y</u>    | (EX) EXPLOSIVES----- <u>N</u>   |
| (PW) PROCESSING WASTE/TAILING---- <u>N</u> | (SF) PROCESSING FACILITIES----- <u>N</u> | (TS) TOPSOIL----- <u>Y</u>      |
| (MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>   | (FW) FISH & WILDLIFE----- <u>N</u>       | (RV) REVEGETATION---- <u>Y</u>  |
| (SM) SIGNS AND MARKERS----- <u>Y</u>       | (SP) STORM WATER MGT PLAN---- <u>N</u>   | (RS) RECL PLAN/COMP-- <u>Y</u>  |
| (ES) OVERBURDEN/DEV. WASTE----- <u>N</u>   | (SC) EROSION/SEDIMENTATION--- <u>N</u>   | (ST) STIPULATIONS----- <u>Y</u> |
| (AT) ACID OR TOXIC MATERIALS----- <u>N</u> | (OD) OFF-SITE DAMAGE----- <u>N</u>       |                                 |

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

### **OBSERVATIONS**

The NCCI Pit #1 (site) was inspected by Patrick Lennberg with the Division of Reclamation, Mining and Safety (Division/DRMS). The inspection was completed as part of a surety related item. On January 6, 2025, the Division was notified by the bonding company that the corporate surety currently held was going to expire in March 2025. The Division conducted the inspection in preparation for possible future enforcement action that may need to be taken. The site was previously inspected by the Division on April 3, 2024 as part of an acreage and surety reduction requests, AR-1 and SR-3 respectively. Chris Zadel representing Northern Colorado Constructors, Inc., the Permittee/Operator, and JC York, J&T Consulting, accompanied me during the inspection. The weather was clear and cold.

The site is located ~3.2 miles northwest of Ft. Lupton, CO in Weld County. The site is accessed off Weld Co Rd 25 about 0.6 miles north of the intersection of Weld Co Rd 25 and Weld Co Rd 18. Currently, the site is a 57.51-acre construction materials site. The approved post-mining use of the permit area is developed water resources. The site was not active at the time of inspection. A mine sign was observed at the entrance to the mine as required by Rule 3.1.12. However, the mine sign is located at the old primary mine entrance location. Chris stated that the sign would be moved to new mine entrance location by the end of the day.

In acreage reduction request (AR-1) was approved in May 2024. The approval released 118.12 acre developed water resources reservoir that is owned by the City of Thornton. However, the site maintained an approximately 7 acre portion of permit boundary along the west side of the released area. This area remained in the permit boundary so the Operator could install an underdrain to help mitigate groundwater mounding near the southern permit boundary area. The completion of the underdrain construction occurred in November 2024. A recent copy of the groundwater elevations is provided in Attachment 1. The table indicates the underdrain is functioning as designed and at the time of inspection flow from the underdrain to Little Dry Creek, in the northern portion of the permit boundary, was measured at 0.68 cfs.

Since the inspection the Division has accepted a replacement bond for the corporate surety that was set to expire. The site is currently bonded appropriately.

During the inspection the Operator stated that they will be filing an amendment application to additional minable area to the permit. The area that will be part of the amendment is the area located north of the water resources reservoir that was just released. The exact timing of the amendment submittal is not known currently.

The Division evaluated the financial warranty and determined the current bond amount held by the Division is adequate at this time.

Photographs taken during the inspection are attached.

Please contact Patrick Lennberg by email at [patrick.lennberg@state.co.us](mailto:patrick.lennberg@state.co.us) if you have any questions regarding this report.

#### **Inspection Contact Address**

Chris Zadel  
Northern Colorado Constructors

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cc: Jared Ebert, DRMS

ec: Chris Zadel, NCCI, [chrisz@ncconstructors.com](mailto:chrisz@ncconstructors.com)  
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**PHOTOGRAPHS**



**Photo 1:** Mine sign at the former primary mine entrance



**Photo 2:** Outlet of underdrain to conveyance ditch to Little Dry Creek





**Photo 3:** Conveyance ditch to flume before Little Dry Creek



**Photo 4:** Discharge to Little Dry Creek after flume





**Photo 5:** Looking south from the north end of the permit area, the underdrain parallels telephone poles



**Photo 6:** Looking north from the south end of the permit area, the underdrain parallels telephone poles

## **Attachment 1**

Zadel Pit

|                                             | Off-site Monitoring Wells           |                                         |                              |             |                                     |                                         |                              |             |                                     |                                         |                              |             |                                     |                                         |                              |             |                                     |                                         |                              |             |                                     |                                         |                              |             |                                     |                                         |                              |             |
|---------------------------------------------|-------------------------------------|-----------------------------------------|------------------------------|-------------|-------------------------------------|-----------------------------------------|------------------------------|-------------|-------------------------------------|-----------------------------------------|------------------------------|-------------|-------------------------------------|-----------------------------------------|------------------------------|-------------|-------------------------------------|-----------------------------------------|------------------------------|-------------|-------------------------------------|-----------------------------------------|------------------------------|-------------|-------------------------------------|-----------------------------------------|------------------------------|-------------|
| Piezometer Number                           | MW-Z1                               |                                         |                              |             | MW-Z2                               |                                         |                              |             | MW-Z3                               |                                         |                              |             | MW-Z4                               |                                         |                              |             | MW-Z5                               |                                         |                              |             | MW-Z6                               |                                         |                              |             | MW-Z7                               |                                         |                              |             |
| Ground Surface Elevation (ft) <sup>1)</sup> | 4870.33                             |                                         |                              |             | 4870.66                             |                                         |                              |             | 4862.43                             |                                         |                              |             | 4862.97                             |                                         |                              |             | 4869.49                             |                                         |                              |             | 4869.76                             |                                         |                              |             | 4868.93                             |                                         |                              |             |
| Top of PVC Elevation (ft) <sup>1)</sup>     | 4869.73                             |                                         |                              |             | 4870.05                             |                                         |                              |             | 4862.14                             |                                         |                              |             | 4862.72                             |                                         |                              |             | 4869.24                             |                                         |                              |             | 4869.47                             |                                         |                              |             | 4868.39                             |                                         |                              |             |
| Date of Measurement                         | Depth to water from top of PVC (ft) | Depth of water from Ground Surface (ft) | Water Surface Elevation (ft) | Change (ft) | Depth to water from top of PVC (ft) | Depth of water from Ground Surface (ft) | Water Surface Elevation (ft) | Change (ft) | Depth to water from top of PVC (ft) | Depth of water from Ground Surface (ft) | Water Surface Elevation (ft) | Change (ft) | Depth to water from top of PVC (ft) | Depth of water from Ground Surface (ft) | Water Surface Elevation (ft) | Change (ft) | Depth to water from top of PVC (ft) | Depth of water from Ground Surface (ft) | Water Surface Elevation (ft) | Change (ft) | Depth to water from top of PVC (ft) | Depth of water from Ground Surface (ft) | Water Surface Elevation (ft) | Change (ft) | Depth to water from top of PVC (ft) | Depth of water from Ground Surface (ft) | Water Surface Elevation (ft) | Change (ft) |
| 6/27/2023                                   | 1.40                                | 2.00                                    | 4868.33                      | 1.92        | 2.03                                | 2.63                                    | 4868.02                      | 2.05        | 7.15                                | 7.44                                    | 4854.99                      | 2.73        | 7.10                                | 7.35                                    | 4855.62                      | 6.36        | 4.27                                | 4.52                                    | 4864.97                      | 7.22        | 4.10                                | 4.39                                    | 4865.37                      | 6.18        | 2.87                                | 3.41                                    | 4865.52                      | 5.53        |
| 8/24/2023                                   | 0.60                                | 1.20                                    | 4869.13                      | 0.80        | 1.04                                | 1.64                                    | 4869.01                      | 0.99        | 3.38                                | 3.67                                    | 4858.76                      | 3.77        | 6.70                                | 6.95                                    | 4856.02                      | 0.40        | 5.30                                | 5.55                                    | 4863.94                      | (1.03)      | 4.89                                | 5.18                                    | 4864.58                      | (0.79)      | 3.25                                | 3.79                                    | 4865.14                      | (0.38)      |
| 9/11/2023                                   | 0.45                                | 1.05                                    | 4869.28                      | 0.15        | 0.75                                | 1.35                                    | 4869.30                      | 0.29        | 3.17                                | 3.46                                    | 4858.97                      | 0.21        | 6.76                                | 7.01                                    | 4855.96                      | (0.06)      | 6.25                                | 6.50                                    | 4862.99                      | (0.95)      | 5.75                                | 6.04                                    | 4863.72                      | (0.86)      | 4.05                                | 4.59                                    | 4864.34                      | (0.80)      |
| 10/18/2023                                  | 0.50                                | 1.10                                    | 4869.23                      | (0.05)      | 0.90                                | 1.50                                    | 4869.15                      | (0.15)      | 3.22                                | 3.51                                    | 4858.92                      | (0.05)      | 7.15                                | 7.40                                    | 4855.57                      | (0.39)      | 5.78                                | 6.03                                    | 4863.46                      | 0.47        | 5.39                                | 5.68                                    | 4864.08                      | 0.36        | 3.81                                | 4.35                                    | 4864.58                      | 0.24        |
| 11/13/2023                                  | 1.02                                | 1.62                                    | 4868.71                      | (0.52)      | 1.45                                | 2.05                                    | 4868.60                      | (0.55)      |                                     |                                         |                              |             | 7.18                                | 7.43                                    | 4855.54                      | (0.03)      | 6.53                                | 6.78                                    | 4862.71                      | (0.75)      | 6.04                                | 6.33                                    | 4863.43                      | (0.65)      | 4.42                                | 4.96                                    | 4863.97                      | (0.61)      |
| 12/13/2023                                  | 1.52                                | 2.12                                    | 4868.21                      | (0.50)      | 2.07                                | 2.67                                    | 4867.98                      | (0.62)      | 4.15                                | 4.44                                    | 4857.99                      | (0.93)      | 7.30                                | 7.55                                    | 4855.42                      | (0.12)      | 7.09                                | 7.34                                    | 4862.15                      | (0.56)      | 6.50                                | 6.79                                    | 4862.97                      | (0.46)      | 4.82                                | 5.36                                    | 4863.57                      | (0.40)      |
| 1/9/2024                                    | 1.80                                | 2.40                                    | 4867.93                      | (0.28)      | 2.40                                | 3.00                                    | 4867.65                      | (0.33)      | 4.25                                | 4.54                                    | 4857.89                      | (0.10)      | 7.35                                | 7.60                                    | 4855.37                      | (0.05)      | 7.37                                | 7.62                                    | 4861.87                      | (0.28)      | 6.73                                | 7.02                                    | 4862.74                      | (0.23)      | 5.01                                | 5.55                                    | 4863.38                      | (0.19)      |
| 2/5/2024                                    | 1.97                                | 2.57                                    | 4867.76                      | (0.17)      | 2.61                                | 3.21                                    | 4867.44                      | (0.21)      | 4.22                                | 4.51                                    | 4857.92                      | 0.03        | 7.47                                | 7.72                                    | 4855.25                      | (0.12)      | 7.52                                | 7.77                                    | 4861.72                      | (0.15)      | 6.76                                | 7.05                                    | 4862.71                      | (0.03)      | 5.01                                | 5.55                                    | 4863.38                      | 0.00        |
| 3/6/2024                                    | 2.22                                | 2.82                                    | 4867.51                      | (0.25)      | 2.87                                | 3.47                                    | 4867.18                      | (0.26)      | 4.31                                | 4.60                                    | 4857.83                      | (0.09)      | 7.35                                | 7.60                                    | 4855.37                      | 0.12        | 7.32                                | 7.57                                    | 4861.92                      | 0.20        | 6.72                                | 7.01                                    | 4862.75                      | 0.04        | 5.02                                | 5.56                                    | 4863.37                      | (0.01)      |
| 4/16/2024                                   | 2.88                                | 3.48                                    | 4866.85                      | (0.66)      | 3.42                                | 4.02                                    | 4866.63                      | (0.55)      | 4.10                                | 4.39                                    | 4858.04                      | 0.21        | 6.77                                | 7.02                                    | 4855.95                      | 0.58        | 5.99                                | 6.24                                    | 4863.25                      | 1.33        | 5.50                                | 5.79                                    | 4863.97                      | 1.22        | 4.96                                | 5.50                                    | 4863.43                      | 0.06        |
| 5/23/2024                                   | 1.49                                | 2.09                                    | 4868.24                      | 1.39        | 2.02                                | 2.62                                    | 4868.04                      | 1.40        | 2.95                                | 3.24                                    | 4859.19                      | 1.15        | 6.05                                | 6.30                                    | 4856.67                      | 0.72        | 4.95                                | 5.20                                    | 4864.29                      | 1.04        | 4.78                                | 5.07                                    | 4864.69                      | 0.72        | 3.32                                | 3.86                                    | 4865.07                      | 1.64        |
| 6/21/2024                                   | 0.83                                | 1.43                                    | 4868.90                      | 0.66        | 1.25                                | 1.85                                    | 4868.80                      | 0.77        | 2.83                                | 3.12                                    | 4859.31                      | 0.12        | 6.13                                | 6.38                                    | 4856.59                      | (0.08)      | 5.42                                | 5.67                                    | 4863.82                      | (0.47)      | 5.18                                | 5.47                                    | 4864.29                      | (0.40)      | 3.64                                | 4.18                                    | 4864.75                      | (0.32)      |
| 7/2/2024                                    | 0.58                                | 1.18                                    | 4869.15                      | 0.25        | 1.00                                | 1.60                                    | 4869.05                      | 0.25        | 2.43                                | 2.72                                    | 4859.71                      | 0.40        | 6.12                                | 6.37                                    | 4856.60                      | 0.01        | 5.45                                | 5.70                                    | 4863.79                      | (0.03)      | 5.20                                | 5.49                                    | 4864.27                      | (0.02)      | 3.70                                | 4.24                                    | 4864.69                      | (0.06)      |
| 8/5/2024                                    | 0.40                                | 1.00                                    | 4869.33                      | 0.18        | 0.72                                | 1.32                                    | 4869.33                      | 0.28        | 2.95                                | 3.24                                    | 4859.19                      | (0.52)      | 6.58                                | 6.83                                    | 4856.14                      | (0.46)      | 5.32                                | 5.57                                    | 4863.92                      | 0.13        | 5.10                                | 5.39                                    | 4864.37                      | 0.10        | 3.59                                | 4.13                                    | 4864.80                      | 0.11        |
| 9/6/2024                                    | 0.13                                | 0.73                                    | 4869.60                      | 0.27        | 0.50                                | 1.10                                    | 4869.55                      | 0.22        |                                     |                                         |                              |             | 2.82                                | 3.07                                    | 4859.90                      | 3.76        | 5.65                                | 5.90                                    | 4863.59                      | (0.33)      | 6.68                                | 6.97                                    | 4862.79                      | (1.58)      | 4.12                                | 4.66                                    | 4864.27                      | (0.53)      |
| 9/16/2024                                   |                                     |                                         |                              |             |                                     |                                         |                              |             | 2.71                                | 3.00                                    | 4859.43                      | 0.24        |                                     |                                         |                              |             |                                     |                                         |                              |             |                                     |                                         |                              |             |                                     |                                         |                              |             |
| 10/4/2024                                   | 0.34                                | 0.94                                    | 4869.39                      | (0.21)      | 0.68                                | 1.28                                    | 4869.37                      | (0.18)      | 2.74                                | 3.03                                    | 4859.40                      | (0.03)      | 6.90                                | 7.15                                    | 4855.82                      | (4.08)      | 4.05                                | 4.30                                    | 4865.19                      | 1.60        | 5.57                                | 5.86                                    | 4863.90                      | 1.11        | 5.82                                | 6.36                                    | 4862.57                      | (1.70)      |
| 11/12/2024                                  | 1.31                                | 1.91                                    | 4868.42                      | (0.97)      | 1.96                                | 2.56                                    | 4868.09                      | (1.28)      | 3.60                                | 3.89                                    | 4858.54                      | (0.86)      | 6.93                                | 7.18                                    | 4855.79                      | (0.03)      | 4.37                                | 4.62                                    | 4864.87                      | (0.32)      | 5.87                                | 6.16                                    | 4863.60                      | (0.30)      | 6.13                                | 6.67                                    | 4862.26                      | (0.31)      |
| 12/11/2024                                  | 2.83                                | 3.43                                    | 4866.90                      | (1.52)      | 3.55                                | 4.15                                    | 4866.50                      | (1.59)      | 4.07                                | 4.36                                    | 4858.07                      | (0.47)      | 7.10                                | 7.35                                    | 4855.62                      | (0.17)      | 5.90                                | 6.15                                    | 4863.34                      | (1.53)      | 7.35                                | 7.64                                    | 4862.12                      | (1.48)      | 7.58                                | 8.12                                    | 4860.81                      | (1.45)      |
| 1/14/2025                                   | 3.74                                | 4.34                                    | 4865.99                      | (0.91)      | 4.49                                | 5.09                                    | 4865.56                      | (0.94)      | 4.40                                | 4.69                                    | 4857.74                      | (0.33)      | 7.37                                | 7.62                                    | 4855.35                      | (0.27)      | 6.55                                | 6.80                                    | 4862.69                      | (0.65)      | 8.02                                | 8.31                                    | 4861.45                      | (0.67)      | 8.20                                | 8.74                                    | 4860.19                      | (0.62)      |
| Max                                         | 3.74                                | 4.34                                    | 4869.60                      | 1.92        | 4.49                                | 5.09                                    | 4869.55                      | 2.05        | 7.15                                | 7.44                                    | 4869.71                      | 3.77        | 7.47                                | 7.72                                    | 4869.90                      | 6.36        | 7.52                                | 7.77                                    | 4865.19                      | 7.22        | 8.02                                | 8.31                                    | 4865.37                      | 6.18        | 8.20                                | 8.74                                    | 4865.52                      | 5.53        |
| Min                                         | 0.13                                | 0.73                                    | 4865.99                      | (1.52)      | 0.50                                | 1.10                                    | 4865.56                      | (1.59)      | 2.43                                | 2.72                                    | 4864.99                      | (0.93)      | 2.82                                | 3.07                                    | 4855.25                      | (4.08)      | 4.05                                | 4.30                                    | 4861.72                      | (1.53)      | 4.10                                | 4.39                                    | 4861.45                      | (1.58)      | 2.87                                | 3.41                                    | 4860.19                      | (1.70)      |
| Max Change                                  | 3.61                                | 3.61                                    | 3.61                         |             | 3.99                                | 3.99                                    | 3.99                         |             | 4.72                                | 4.72                                    | 4.72                         |             | 4.65                                | 4.65                                    | 4.65                         |             | 3.47                                | 3.47                                    | 3.47                         |             | 3.92                                | 3.92                                    | 3.92                         |             | 5.33                                | 5.33                                    | 5.33                         |             |
| Average                                     | 1.37                                | 1.97                                    | 4868.36                      | (0.02)      | 1.88                                | 2.48                                    | 4868.17                      | (0.02)      | 3.70                                | 3.99                                    | 4868.44                      | 0.30        | 6.69                                | 6.94                                    | 4856.03                      | 0.32        | 5.85                                | 6.10                                    | 4863.39                      | 0.26        | 5.90                                | 6.19                                    | 4863.57                      | 0.12        | 4.70                                | 5.24                                    | 4863.69                      | 0.01        |

<sup>1)</sup> Elevations surveyed by Survey Systems, Evergreen, Colorado (July, 2011).