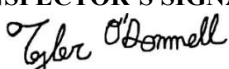




**COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY**  
**MINERALS PROGRAM INSPECTION REPORT**  
**PHONE: (303) 866-3567**

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> Debetz Pit	<b>MINE/PROSPECTING ID#:</b> M-1977-283	<b>MINERAL:</b> Sand and gravel	<b>COUNTY:</b> Adams
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> Tyler V. O'Donnell	<b>INSP. DATE:</b> April 23, 2014	<b>INSP. TIME:</b> 09:00
<b>OPERATOR:</b> Adams County	<b>OPERATOR REPRESENTATIVE:</b> Craig Tessmer, Kurt Carlson, and Marc Pedrucci	<b>TYPE OF OPERATION:</b> 112c - Construction Regular Operation	

<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> None	<b>BOND AMOUNT:</b> N/A
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None
<b>WEATHER:</b> Clear	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> May 22, 2014

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

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

## **OBSERVATIONS**

This was a normal routine monitoring inspection conducted by Tyler O'Donnell of the Division of Reclamation, Mining and Safety (Division/DRMS). Adams County, the Operator, was represented by Craig Tessmer, Kurt Carlson, and Marc Pedrucci during the inspection. The Debetz Pit is located approximately 3.75 miles southwest of Brighton, Colorado. The Debetz Pit is a 40-acre 112C reclamation permit. The commodity mined at the site was sand and gravel, however no mining has taken place in several years and no additional mining is planned. The Operator is in the process of completing reclamation. The approved post-mining land use is recreation. The Operator intends to reclaim the mine site as a county open-space park. The site is encompassed by recreational land use. To the west the site is bordered by a golf course, to the south and east the site is surrounded by a park/open-space and wildlife habitat.

The sky was clear during the inspection. During the inspection dumb trucks were observed importing fill material and stockpiling material near the shoreline. The Operator also had a medium size bull dozer on site, however the dozer was not operational during the inspection. The Operator's representative stated the dozer is used to push the imported fill into the pond. The Operator's representative stated that roughly 35,000 cubic yards had been backfilled into the pond. The 35,000 cubic yards covered approximately 3 acres of exposed groundwater. The Operator intends to backfill 6 acres or more of exposed groundwater. The Operator intends to complete reclamation by winter of 2015. No problems or violations were noted during the inspection.

### **Availability Of Records:**

On June 22, 2004, Adams County submitted a request to release 20 acres through acreage release request AR-01. AR-01 was approved by the Division on July 13, 2004. The area released under AR-01 was composed of the golf course west of the pond. On July 24, 2013, the Operator submitted a Technical Revision TR-01 which allowed for the importation of inter fill, approximately 75,000 cubic yards to backfill. The 75,000 cubic yards is intended to backfill 6-acres of exposed groundwater. TR-01 also removed Russian Olive from the approved seed mix.

During the inspection there was some confusion about where the Approved permit boundary was located; the Division has attached a copy of the last reclamation plan map with the approved permit boundary.

### **Backfilling and Grading:**

There were areas where the Operator had backfilled and graded slopes to 3H:1V or flatter. There were areas along the western permit boundary where a retaining wall had been constructed along the golf course. The retaining wall was near vertical. Portions of the southern lake shore had slopes that were near vertical 1H:1V. Slopes along the southern edge of the pond will need to be re-graded to 3H:1V. The Operator is advised to submit a technical revision and provide an updated reclamation plan and reclamation plan map describing how the slopes of the pond will be re-graded/stabilized along edge of the golf course.

### **Hydrologic Balance:**

The pit is located just west of the South Plate River. The pit was excavated in to the alluvial groundwater. The surface area of the exposed groundwater is roughly 20 to 25 acres in size.

### **Gen. Compliance With Mine Plan:**

All activity appeared to be within the approved permit boundary. The Operator is conducting backfilling operations as approved in TR-01.

**Revegetation:**

There was some plant growth in the disturbed area. The growth in the disturbed area appeared to be volunteer vegetation, comprised of grasses and annual weeds. The Operator's representative discussed the potential that the approved seed mix might be revised or that the seeding method maybe revised. If the Operator chooses to revise the revegetation component of the reclamation plan such changes could be made in the same technical revision to change slope re-grading around the pond.

**Erosion/Sedimentation:**

There was no evidence of excessive erosion (rills, gullies, or sediment fans). The Operator had installed a turbidity curtain to prevent damaging to the fish population and ecosystem in the parts of the lake that are not being backfilled. The Operator's installation of the turbidity curtain is commendable.

**Signs and Markers:**

A mine I.D. sign was located at the entrance to the mine site.

**Inspection Contact Address**

Kurt Carlson  
Adams County  
4430 S. Adams County Parkway, 1st Floor  
Brighton, CO 80601

Enclosure: Approved reclamation plan map

CC: Tom Kaldenbach, DRMS

## PHOTOGRAPHS



**Photo 1:** Dump truck placing inert fill in the northern portion of the site.



**Photo 2:** Unstable slope along the shoreline of the golf course. The Operator will need to stabilize and establish vegetation on the slope.





**Photo 3:** Turbidity curtain in the foreground. Slopes in the background that will need to be re-graded to 3H:1V.



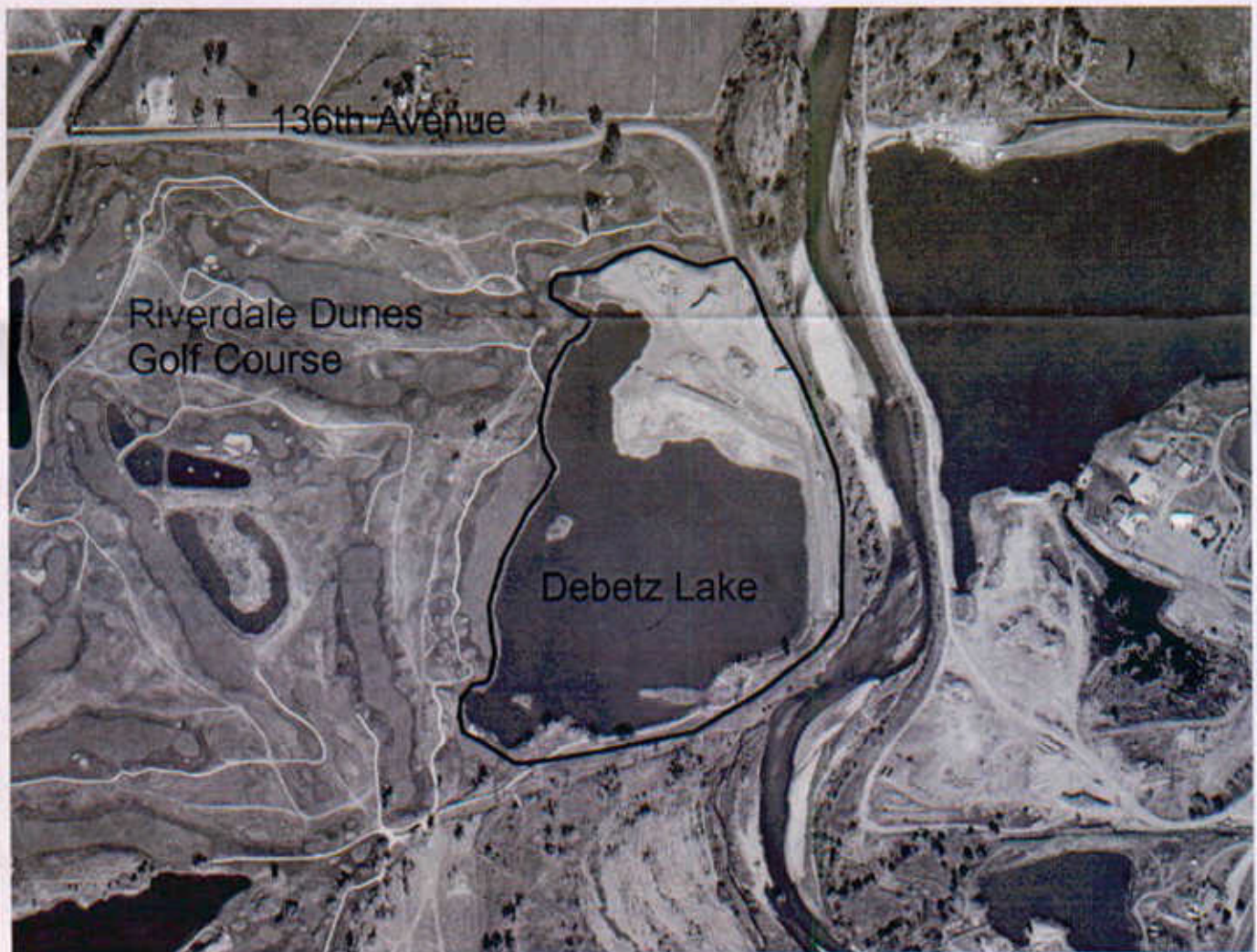
**Photo 4:** Northern portion of the pit that has been re-graded after inter fill has been placed.



# Debetz Pit, M-1977-283

## Current Mining Permit Boundary

June 18, 2004



0.2 0 0.2 0.4 Miles

This map is being submitted to clearly delineate the current mining permit boundary for Debetz Pit. This includes the disturbed area northeast of the lake, as well as all of the shoreline of the lake.

