

& Sons, Inc.

MAILING ADDRESS: P.O. Box 440 RAPID CITY, SD 57709-0440 PH. 605-342-7224
PHYSICAL ADDRESS: 3401 UNIVERSAL DR. RAPID CITY, SD 57702 FX. 605-342-6979

April 24, 2024

Colorado Division of Reclamation, Mining and Safety
Room 215
1001 E 62nd Avenue
Denver, Colorado 80216

Re: Pete Lien & Sons, Inc.; Mining Permit No. M-2004-013; St. Barbara Sand and Gravel Mine.
2024 Reclamation Cost Summary Review and Comments

Permittee submits the following comments for consideration regarding the Reclamation Cost Summary conducted by the Division and received by Pete Lien & Sons, Inc. on 04/20/2024.

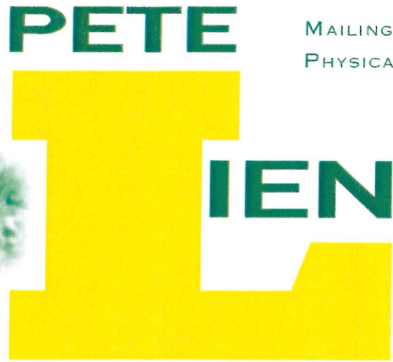
Cost Summary Work:

Task 001C: Fill Settling Pond, 0.51 acre, with overburden.

- The small 0.51 acre settling pond was assumed to be 15 ft. deep resulting in an estimated volume of 14,295 LCY to fill it.
Over time, this pond has been partially filled with sediment.
A more realistic estimate of the depth of that pond is 7.5 feet.
This reduces the amount of material required to fill that pond from 14,295 cy to 7,091 cy.
- Weight Description: Decomposed rock – 50% Rock, 50% Earth.
Soil conditions in this area are more closely described as 25% Rock, 75% Earth.
We ask the DRMS to make this change, which should increase the production rate of the equipment and reduce cycle times.

Task 001D: Fill 9.22 acres at 15 feet deep – 4 ponds NE

- A 15 ft. depth for the 6.6 acre pond is reasonable.
Over time, the other three (3) ponds with a combined acreage of 0.85 acres, have also been partially filled with sediment and fine material washed out of the sand.
A more realistic estimate of the depths of those ponds is 7.5 feet.
Making this adjustment reduces the volume of material to fill the four (4) ponds from 245,618 LCY to 200,047 LCY.
- Truck Bed (volume) basis.
Final Truck Volume Based on Number of Loaders Passes: 16.38. (assuming 3 loader passes @ 5.460 LCY/pass)
According to the CAT Handbook, a CAT 730 Articulate Haul Truck has Heaped volume capacity of 23 LCY.



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This haul truck can easily accept four (4) passes from the chosen loader ($4 \times 5.460 = 21.80$ LCY). This equates to a 25% increase in each load, greatly improving the efficiency of the haul and reducing the Total Job Time.

We ask the DRMS to re-evaluate the volumes, fleet requirements and costs for this task.

- Weight Description: Decomposed rock – 50% Rock, 50% Earth.
Soil conditions in this area are more closely described as 25% Rock, 75% Earth.
We ask the DRMS to make this change, which should increase the production of the equipment and reduce cycle times.

Task 003: Replace Topsoil on 95 acres.

- Topsoil has already been placed on 13 acres within the permit area.
We ask the DRMS to reduce the acreage for topsoil to be replaced from 95 acres to 82 acres.

Task 004: Reveg 95 Acres.

- Topsoil and seeding have already been completed on 13 acres within the permit area.
We ask the DRMS to reduce the acreage for revegetation from 95 acres to 82 acres.
- Mulching and Miscellaneous. Grass hay or cereal grain straw are listed within the Reclamation Materials section of the Mining and Reclamation Plan. Please provide information that supports a price of \$429.79 per ton.

Please consider these requests and let me know if you have any questions regarding this submittal or if additional information is required.

I can be reached at (605) 939-2719 or by email at mgolliher@petelien.com.

Respectfully,

Michael Golliher
Technical Director of Mine Planning
Pete Lien & Sons, Inc.