

September 6, 2022

Mr. Eric Scott Division of Reclamation, Mining and Safety 1313 Sherman Street, Room 215 Denver, CO 80203

RE: Specification Aggregates Quarry, M-1974-004

Response to Second Adequacy Review of Amendment Application AM04

Dear Mr. Scott:

Martin Marietta Materials Inc., received a copy of the Division of Reclamation, Mining and Safety's ("DRMS") second adequacy review of the 112 construction materials reclamation permit amendment application (AMO4), for the Specification Aggregates Quarry, permit M-1974-004, dated August 18, 2022. Please see the following responses, and the referenced supporting documentation.

EXHIBIT E - Reclamation Plan (Rule 6.4.5):

The final in-lake slopes proposed are steeper, in some parts significantly, than what is recommended by Rule 3.1.5(7) which states: "... In all cases where a lake or pond is produced as a portion of the Reclamation Plan, all slopes, unless otherwise approved by the Board or Office, shall be no steeper than a ratio of 2:1 (horizontal to vertical ratio), except from 5 feet above to 10 feet below the expected water line where slopes shall be not steeper than 3:1. If a swimming area is proposed as a portion of the Reclamation Plan, the slope, unless otherwise approved by the Board or Office, shall be no steeper than 5:1 throughout the area proposed for swimming, and a slope no steeper than 2:1 elsewhere in the pond." Please provide a rationale for the steeper final slopes proposed in the current submittal.

DRMS acknowledges that many final reclamation slopes, as well as slopes more than 10 feet below water level, within the proposed reservoir may be steeper than 2H:1V (up to the proposed maximum of 0.5H:1V within the reservoir if the geotechnical data supports this as a stable configuration). However, Rule 3.1.5(7) requires that from 5 feet above to 10 feet below the expected water level slopes shall not be steeper than 3H:1V. Please modify the mining and reclamation plans and associated maps as needed to comply with this requirement.

Response: Revised Exhibits C1-C3, F1, F2 are attached, showing revised mining and reclamation plans. Reclaimed slopes will be no steeper than 3H:1V from 5 feet above to 10 feet below the expected water level for 77% of the perimeter at elevation 6,405 feet above mean sea level in areas not already reclaimed, as shown in Exhibits F1 & F2.

We acknowledge that 23% of the perimeter of the final in-lake slopes proposed are steeper than what is recommended by Rule 3.1.5(7) at the expected water level. Slopes within the reservoir will consist of currently reclaimed and newly quarried rock faces which modeling presented in the Rule 6.5 Geotechnical Stability Report indicates will be stable at the design slope angles under the anticipated reservoir operational conditions.

In the areas where a steeper slope is shown in the northeast and northwest walls, mining and reclamation is already completed at the anticipated water level. The reclaimed slopes are nearly 1H:1V in this area and the vegetation is well established in these areas. These slopes were mined and reclaimed prior to submittal of this amendment application (AM-04).

There are safety concerns regarding access to the already reclaimed areas without extensive new disturbance, and concerns with potential adverse impacts to slope stability for already reclaimed areas if it were necessary to re-enter these areas to create 3H:1V slopes at the expected water level. Please see the excerpt below from pages 5 & 6 of, "2022 Annual Report, Structural Geology Evaluation" prepared by Lachel & Associates on January 26, 2022 and submitted to DRMS with the annual report,

"After planar failure along foliation planes in 1998 and 1999, the overall effective angle of the last three benches of the Northeast Wall 1 and the Northwest Wall were reduced to an overall angle of 35°, which is consistent with the 2003 Lachel geotechnical evaluation (Lachel, 2003). The failure surfaces (i.e., the surfaces along which movement has occurred) remain at a "residual strength" and therefore are less resistant to additional loading. Based on visual inspection from the access road and bottom of the pit, these slopes did not appear to show signs of additional movement during the site visits for this study (Photo 5). Although the slope configuration is currently stable, the failure mechanism could potentially be reactivated, resulting in movement of additional material. The Northwest Wall, Northeast Wall 1, and Northeast Wall 3 (Figure 2) should continue to be visually monitored for indications of instability."

Since the slope configuration in the northeast and northwest walls is currently stable, and has been since 1999, re-entering this area could potentially reactivate a potential failure mechanism in the slope. At the current slope, we are not able to devise a safe access plan for equipment to enter and rework these areas to create a shallower slope without extensive new disturbance, possibly impacting areas outside the current and proposed permit boundaries. We emphasize that the modeling and long-term observations demonstrate that the reclaimed slopes within the reservoir, including slopes that are steeper than what is recommended by Rule 3.1.5(7), meet or exceed stability criteria as presented in the Rule 6.5 Geotechnical Stability Report submitted with the original amendment application. Per Lachel's recommendation, we will continue to visually monitor all slopes in the quarry for indications of instability, with particular attention on the northeast and northwest walls mentioned above.

To help protect health and human safety during mining and reclamation, wildlife friendly fencing will be in place along the property boundary, along with no trespassing signs to deter access by the public.

<u>EXHIBIT L - Reclamation Costs (Rule 6.4.12):</u> All information necessary to calculate the costs of reclamation must be submitted and broken down into the various major phases of reclamation. You must provide sufficient information to calculate the cost of reclamation that would be incurred by the state.

On August 11, 2022 DRMS met with Mr. Courtney of Martin Marietta. This primary focus of this meeting was to discuss the scope of the required site reclamation cost estimate for AM04, as well as how reclamation tasks and costs may best be broken down in a "task by area" approach for all affected areas of the permit and provided to DRMS so that the state's cost may be calculated utilizing the CIRCES software. It was determined that in order for reclamation costs to be accurately estimated for this permit, MMM would need to provide a revised and comprehensive reclamation estimate for the site.

The revised estimate should provide a list of existing and proposed reclamation items for each area of the permit that will need to be addressed for final reclamation. These items should correlate with a detailed description of each reclamation task/item and what will be required

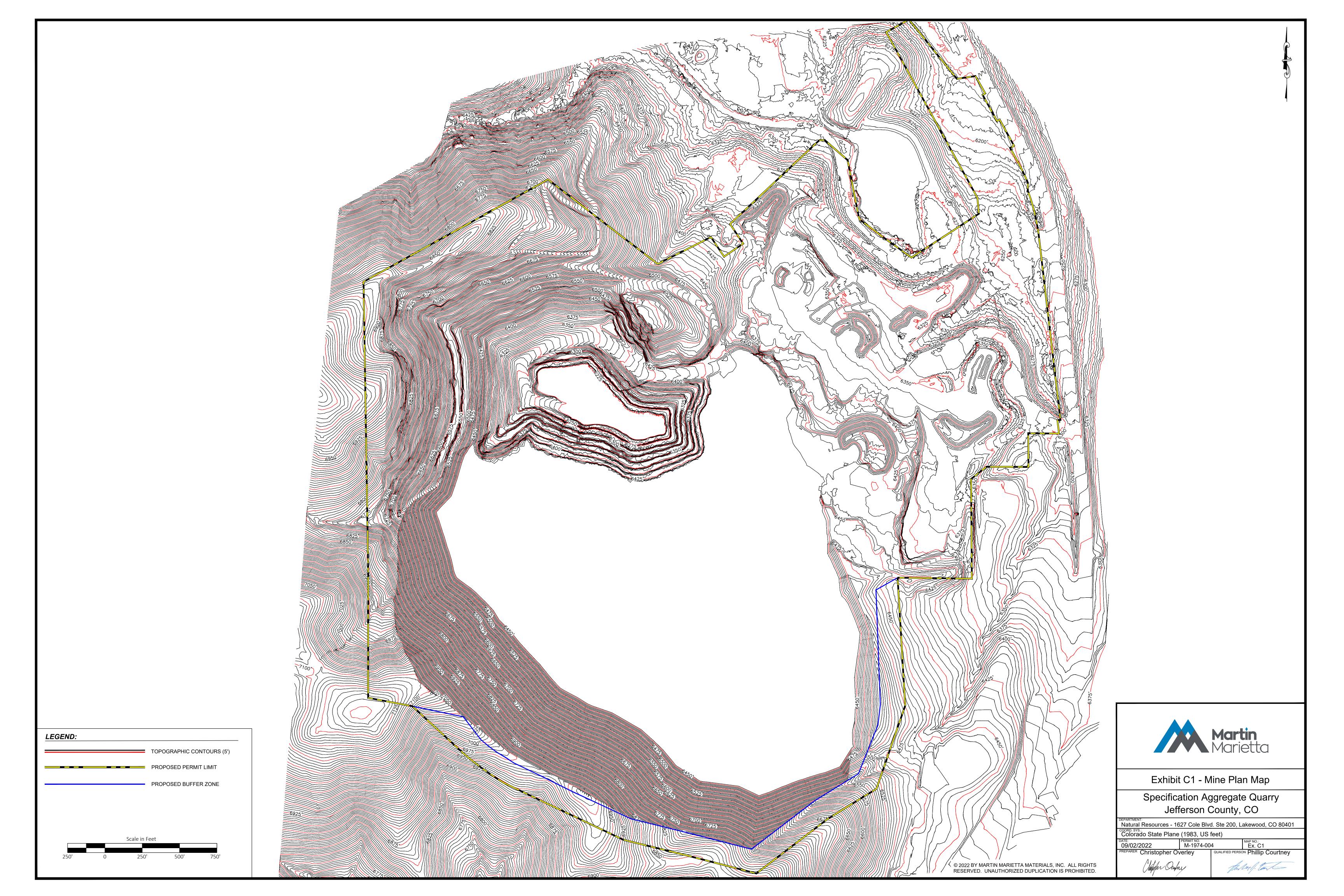
for each reclamation task/item (such as: identification of portable equipment for removal from site, removal of fixed features such as retaining walls, demolition and removal of existing structures such as buildings and scales, dozing and grading various process areas to final grade, replacement of overburden and topsoil, ripping reclaimed roads, acres of final revegetation, etc.). All tasks and areas should be correlated to a reclamation task map or maps, and the reclamation plan modified if needed to fully address and describe the final site configuration proposed.

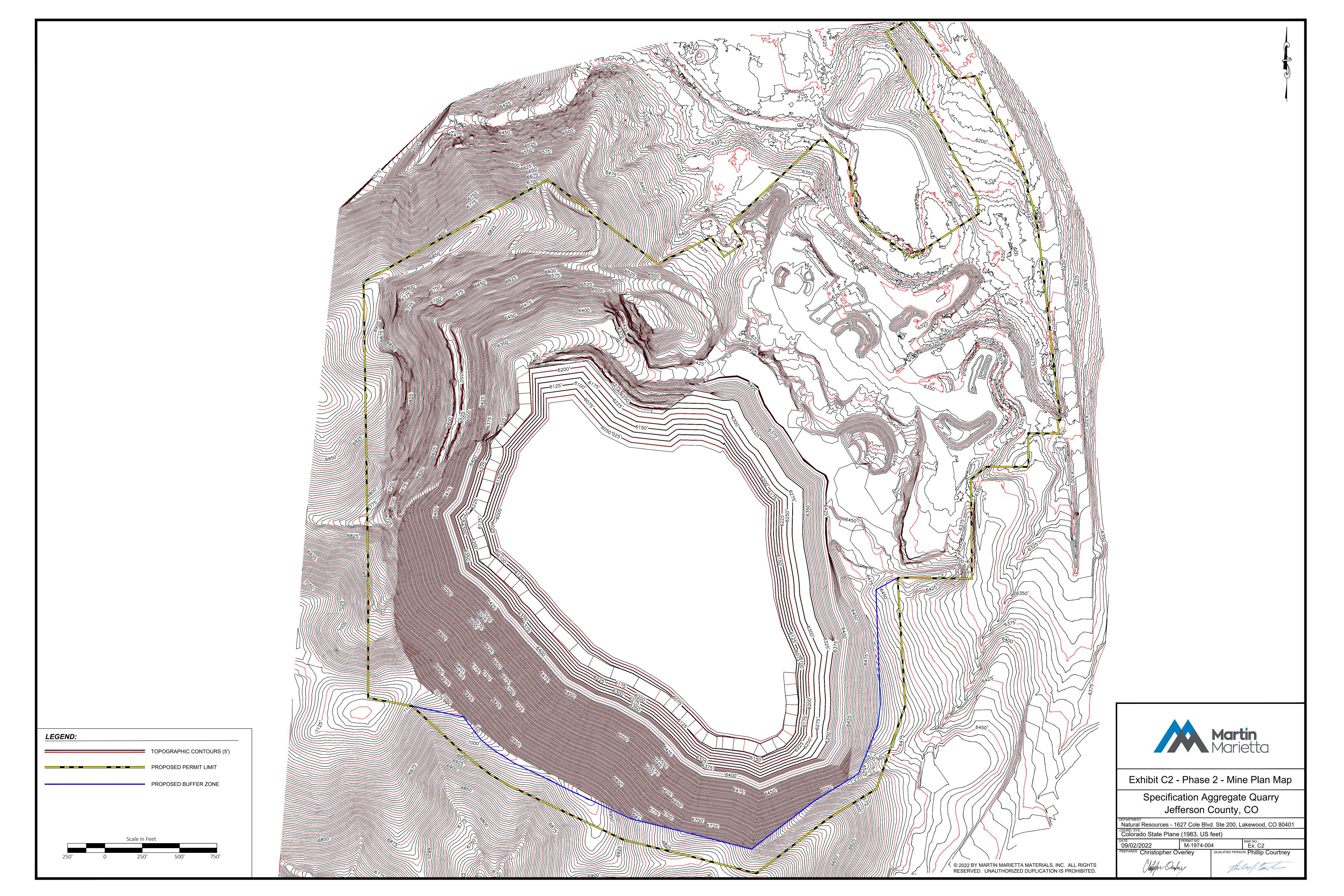
Response: Please see attached revised Exhibits F1, L, L1-L4. Exhibit L contains additional detail regarding the reclamation tasks.

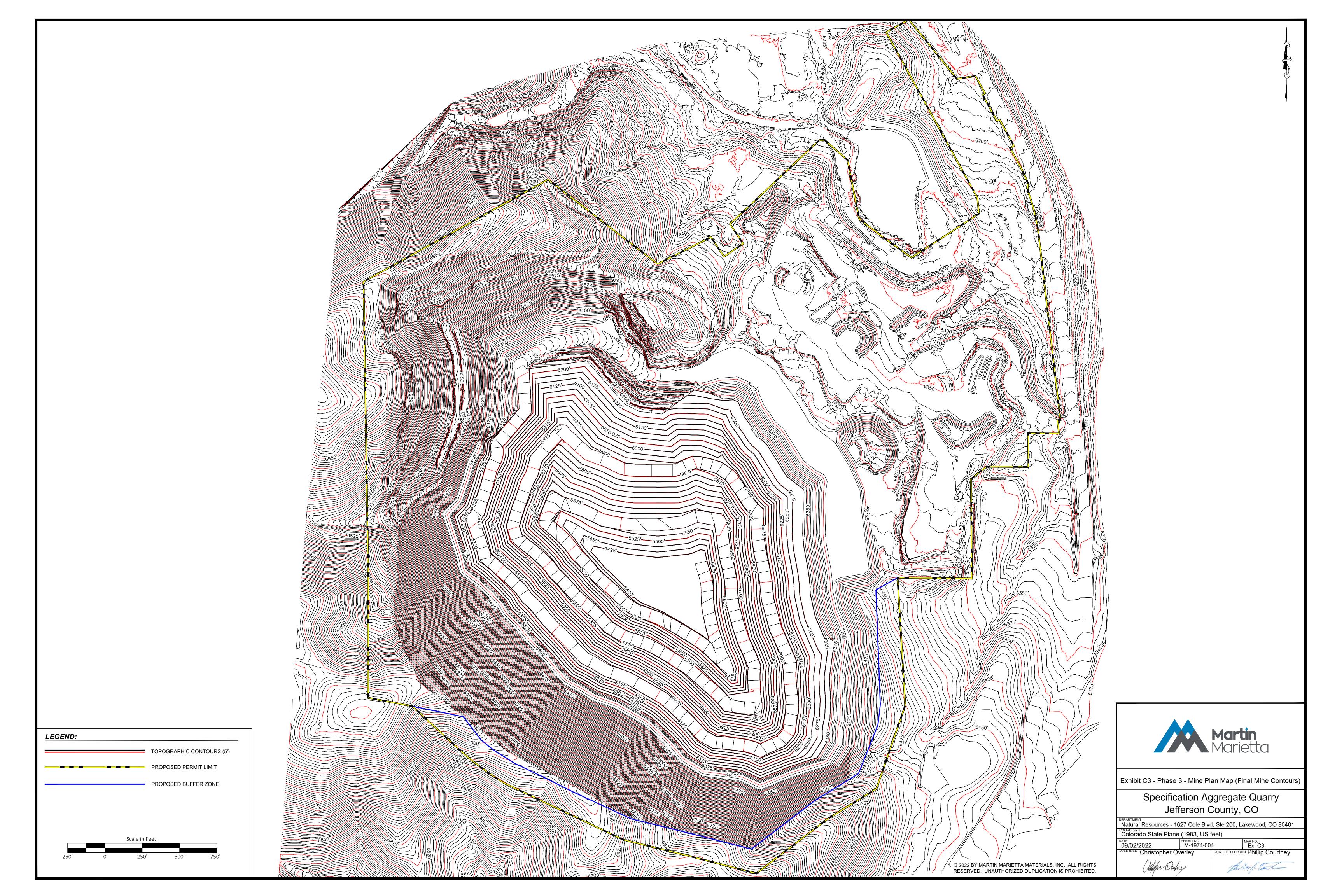
Should you have additional questions please contact me at 720-612-6232 or phillip.courtney@martinmarietta.com.

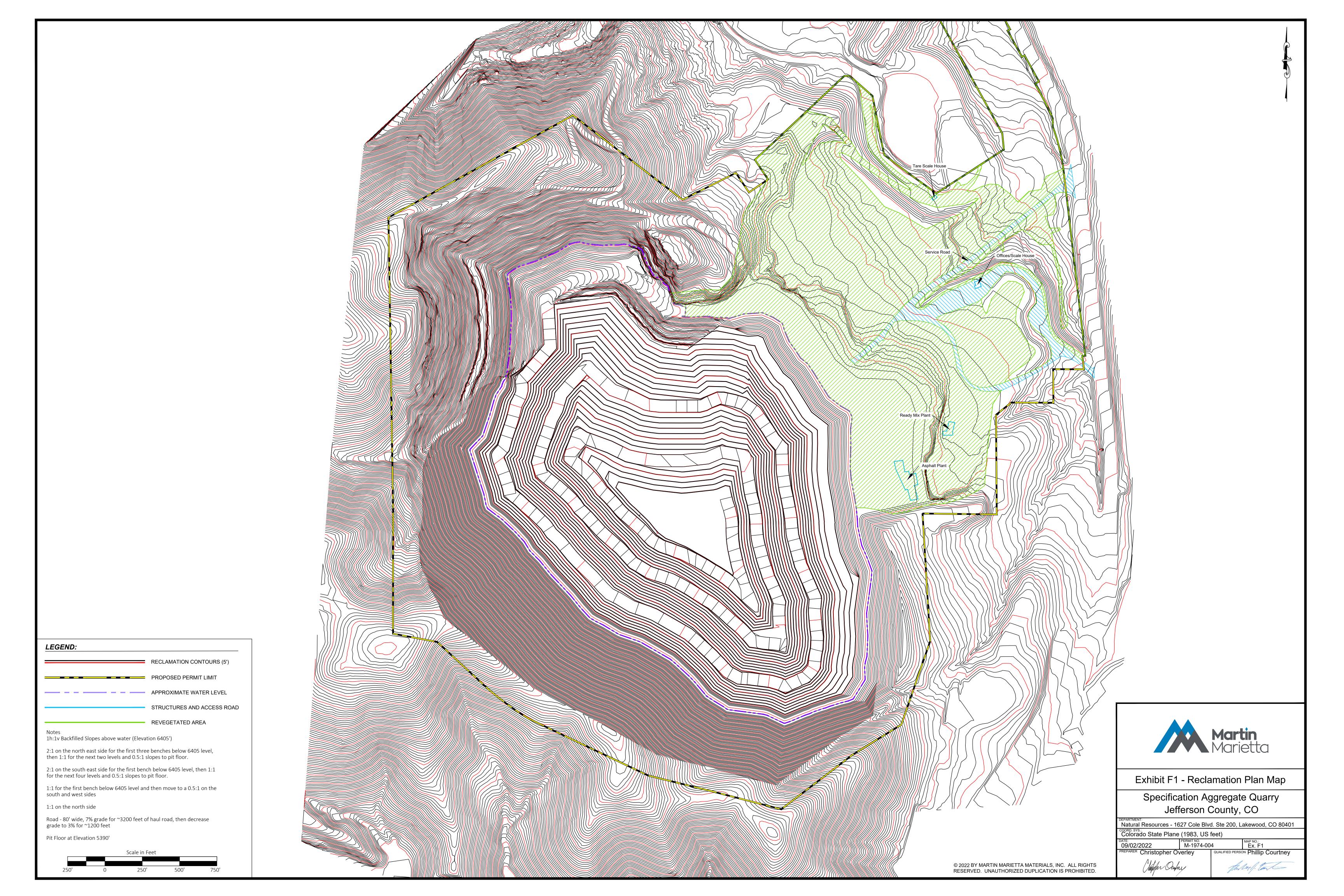
Sincerely,

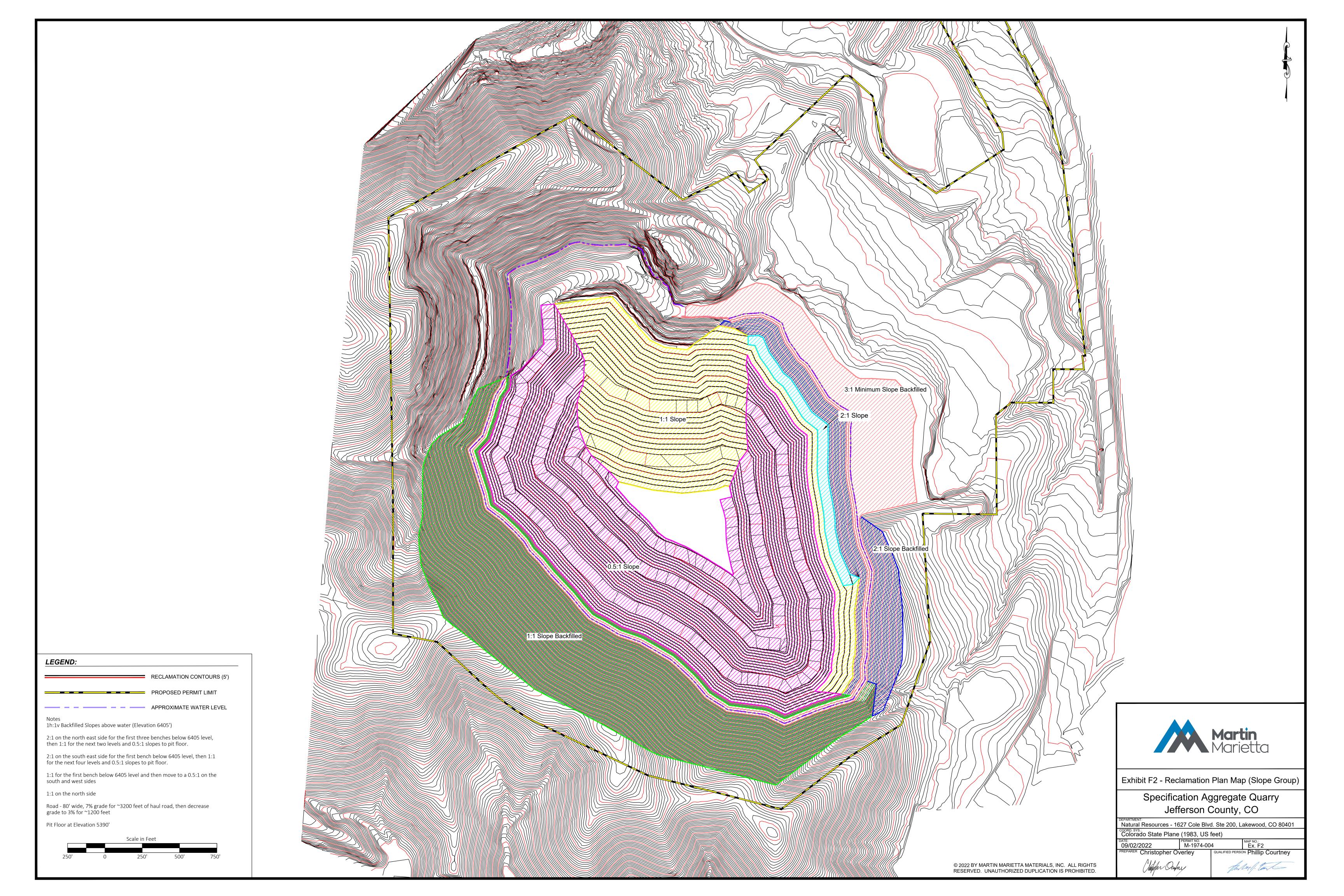
Phillip J. Courtney Land Manager











Specification Aggregates Quarry Amendment Exhibit L (Rule 6.4.12) – Reclamation Costs

Attached is a detailed estimate of reclamation costs to achieve the final reclamation plan for the amended permit as described in Exhibit E. This cost estimate includes engineering and surveying, removal of stockpiles, plant removal, site cleanup, fill placement, slope grading, finish grading, soil amendment, revegetation and reclamation monitoring.

For each task, costs detailed include labor, equipment and subcontractors.

Task - Engineering and Surveying

Engineering and surveying is estimated at \$79,200. This task includes design and layout as required to accomplish the reclamation plan, along with oversight of leak testing that may be required by the State Engineer Office when mining is completed.

Task - Removal of Stockpiles

This work includes removing all stockpiles in the stockpile areas that are shown on Exhibit C Pre-Mining Map. This involves loading existing stockpiles of aggregate material into trucks and hauling the material off-site. Total cost for this task is estimated at \$202,321.

Task - Plant Removal

Removal of the plant includes removal of all screens, crushers and conveyors. These are depicted and listed in the attached Exhibits L1-L4. This equipment will be loaded and hauled from the site for use elsewhere, or to be sold. This task includes labor and the use of cranes, loaders, excavators and service truck as detailed in attached cost estimate sheet. This task also includes disposal of 500 tons of debris that may result from plant disassembly. Any portable equipment, including a portable recycled asphalt plant near the asphalt plant, will be moved for use at another location. The estimated cost for this task is \$205,052.

Task - Site Cleanup

This task includes cleanup of the site, including removal of buildings and concrete foundations. The plant equipment and buildings are depicted on the attached Exhibits L1-L4, along with their respective sizes. Concrete foundations are located beneath buildings, crushers, screens, scales, ready mix and asphalt plants. It is estimated that 6,000 cubic yards of concrete will need to be removed and disposed, using an excavator & breaker, along with additional equipment as listed in the attached cost estimate. Concrete pads beneath buildings and equipment are assumed to be 1 foot in thickness. Removal of concrete blocks and concrete footers used for conveyors is also included in this task. Portable buildings including construction trailers and conex boxes will be moved off-site. Debris generated during this task will be disposed in a dumpster as detailed in the cost estimate. Total cost for this task is estimated at \$345,333.

Task - Fill Placement

This task includes blasting existing benches to the required slope and backfilling to reclaim the slopes per the reclamation plan. As mining progresses, existing exposed benches will be mined out, so the amount of blasting and fill required for this task will decrease over time. The area where this work is required is currently estimated to be about 59 acres.

As the mine exists currently, blasting would be needed to create a 1:1 slope on the benches that are currently exposed inside the pit. It is estimated that over 2,500,000 tons would need to be blasted to create the 1:1 slopes. The amount of material required to backfill a 35-foot bench is about 23 cubic yards/linear foot of bench. This will require about 632,500 cubic yards of fill material or 1,400,000 tons of blasted material.

The attached cost estimate assumes blasting of material and backfilling of the existing exposed benches, which includes 15 benches that are 1,600 linear feet each in the original pit, along with up to 3,500 linear feet of working benches in the current pit.

Additional fill placement within this task includes placing up to 12 inches in the plant area that includes 70 acres. This area is shown in revised Exhibit F1 – Reclamation Plan Map. This area will require about 113,000 cubic yards of fill material. We have estimated that total fill placement will include up to 750,000 cubic yards of material combined in the pit and plant area. The entrance and exit roads will remain following completion of mining and reclamation.

Total cost for this task is estimated at \$1,871,810.

Task - Slope Grading

This task includes grading material in the pit area, once the "Fill Placement" task is completed to backfill the benches. This includes grading up to 59 acres of area in the existing excavation using dozers. The area includes existing exposed benches along with an estimate of the area that includes the working benches. Material will be moved varying distances ranging from 10 - 1,000 feet. As mining progresses, the area requiring grading is expected to decrease due to concurrent reclamation. The total cost for this task is estimated at \$595,390.

Task - Finish Grading

This task includes grading the plant area outside of the pit excavation. This task will be completed using a grader after fill is placed on 70 acres of area as described in the fill placement task. This area is shown on revised Exhibit F1 – Reclamation Map. The total cost for finish grading is estimated to be \$209,370.

Task - Soil Amendment

The 70-acre area outside of the pit is expected to require soil amendment prior to revegetation. The specific type of amendment will be determined based on soil chemistry at the time of reclamation. We have assumed a generic fertilizer for this cost estimate. This task includes purchase of the soil amendment and placement using a tractor with disc at a cost of \$188,197.

Task - Revegetation

This task includes seeding of 70 acres in the plant area using drill seeding, and 59 acres in the pit area using hydroseeding. The seed mix used is included in Exhibit E – Reclamation Plan. The cost for this task is \$218,640.

Task - Reclamation Monitoring

Oversight of the reclamation will be provided by an engineer, estimated at \$48,000 (320 hours at \$150 per hour).

The total reclamation cost is estimated at \$3,963,313. The addition of a regulatory oversight cost of 5% results in a total bond estimate of \$4,161,479. This is an increase from the current bond of \$1,453,291.

March 3, 2022

Task Number	Task Description	Labor Cost	Equ	uipment Cost	N	Material Cost	La	boratory Cost	S	Subcontractor Cost	Item Total
1	Engineering and Surveying	\$ 50,400.00	\$	-	\$	-	\$	-	\$	28,800.00	\$ 79,200.00
2	Removal of Stockpiles	\$ 38,400.00	\$	38,746.00	\$	3,575.00	\$	-	\$	121,600.00	\$ 202,321.00
3	Plant Removal	\$ 64,000.00	69	37,792.00	\$	3,520.00	\$	-	\$	99,740.00	\$ 205,052.00
4	Site Cleanup	\$ 160,000.00	\$	111,773.00	\$	6,600.00	\$	-	\$	66,960.00	\$ 345,333.00
5	Fill Placement	\$ 208,000.00	69	366,560.00	\$	24,750.00	\$	-	\$	1,272,500.00	\$ 1,871,810.00
6	Slope Grading	\$ 208,000.00	\$	362,640.00	\$	24,750.00	\$	-	\$		\$ 595,390.00
7	Finish Grading	\$ 86,400.00	\$	118,570.00	\$	4,400.00	\$	-	\$	-	\$ 209,370.00
8	Soil Amendment	\$ 21,600.00	69	50,800.00	\$	115,797.00	\$	-	\$	-	\$ 188,197.00
9	Revegetation	\$ 38,400.00	\$	6,800.00	\$	11,440.00	\$	-	\$	162,000.00	\$ 218,640.00
10	Reclamation Monitoring	\$ -	\$	-	\$	-	\$	-	\$	48,000.00	\$ 48,000.00
11	Miscellaneous 2	\$ -	\$	-	\$	-	\$	-	\$	-	\$ -

TOTALS \$ 875,200.00 \$ 1,093,681.00 \$ 194,832.00 \$ \$ 1,799,600.00 \$ 3,963,313.00

\$ \$ Regulatory Oversight 198,165.65 4,161,478.65 **Total Reclamation Costs**

Estimate Date: March 3, 2022

 Task Number:
 1
 Task Description: Engineering and Surveying

Labor

Labor Category	Individual	Rate (Regular)	Rate (O.T.)	Hours (Regular)	Hours (O.T.)	Total
Supervisor	TBD	\$ 105.00		480		\$ 50,400.00
						\$ -
						\$ -
						\$ -

TOTAL LABOR COST \$ 50,400.00

Equipment

Equipment Type	Supplier	Unit Rate	Units	Quantity	Transportion and Delivery	Tot	al
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	

TOTAL EQUIPMENT COST

Materials

Description	Supplier	Unit Cost	Units	Quantity	Sales Tax (Enter as a decimal)	Shipping and Handling	Total
							\$ -
							\$ -
							\$ -
							\$ -

TOTAL MATERIAL COST

Laboratory Services

Test	Laboratory	Unit Cost	No. of Tests	S	Subtotal	Turnaround Time	% Premium Expidited TAT (Enter as a decimal)	То	tal
				\$	-			\$	-
				\$	-			\$	-
				\$	-			\$	-
				\$	-			\$	-
				\$	-			\$	-
				\$	-			\$	-

TOTAL LABORATORY SERVICES COST \$

Subcontractors

Service	Supplier	Unit Cost	Units	Quantity	Total
Engineering Design	TBD	\$ 150.00	Hour	80	\$ 12,000.0
Surveying	TBD	\$ 105.00	hour	160	\$ 16,800.0
					\$ -
					\$ -

TOTAL SUBCONTRACTOR COST

\$ 28,800.00

TOTAL COST FOR Engineering and Surveying \$ 79,200.00

Includes design of Leak test required by State Engineer Office

Estimate Date: March 3, 2022

Task Number: 2 Task Description: Removal of Stockpiles

Labor

Labor Category	Individual	Rate (Regular)	Rate (O.T.)	Hours (Regular)	Hours (O.T.)	Total	
Operator - Loader		\$ 55.00		320		\$ 17,600	0.00
						\$	-
						\$	-
Foreman		\$ 65.00		320		\$ 20,800	0.00

TOTAL LABOR COST \$ 38,400.00

Equipment

Equipment Type	Supplier	Unit Rate	Units	Quantity	Quantity Transportion and Delivery		Total
Volvo 250H Loader	PECO	\$ 13,900.00	Month	2	\$	946.00	\$ 28,746.00
Service Truck	TBD	\$ 850.00	Week	8			\$ 6,800.00
Pickup	TBD	\$ 400.00	Week	8			\$ 3,200.00
							\$ -
							\$ -

TOTAL EQUIPMENT COST \$ 38,746.00

Materials

Description	Supplier	Unit Cost	Units	Quantity	Sales Tax (Enter as a decimal)	Shipping and Handling	Total
Diesel Fuel		\$ 2.75	Gallon	1300			\$ 3,575.00
							\$ -
							\$ -

TOTAL MATERIAL COST \$ 3,575.00

Laboratory Services

Test	Laboratory	Unit Cost	No. of Tests	Subtotal	Turnaround Time	% Premium Expidited TAT (Enter as a decimal)	Total
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -

TOTAL LABORATORY SERVICES COST \$ -

Subcontractors

Service	Supplier	Unit Cost	Units	Quantity	Total
Trucking - Aggregate		\$ 95.00	Hour	1280	\$ 121,600.00
					\$ -
					\$ -
					\$ -

TOTAL SUBCONTRACTOR COST \$ 121,600.00

TOTAL COST FOR Removal of Stockpiles \$ 202,321.00

Project Name: Project Location: Spec Agg Reclamation Jefferson County, Colorado

Estimate Date: March 3, 2022

Task Number: Task Description: Plant Removal

Labor

Labor Category	Individual	Rate (Regular)	Rate (O.T.)	Hours (Regular)	Hours (O.T.)	Total
Laborer		\$ 45.00		160		\$ 7,200.00
Laborer		\$ 45.00		160		\$ 7,200.00
Laborer		\$ 45.00		160		\$ 7,200.00
Laborer		\$ 45.00		160		\$ 7,200.00
Laborer		\$ 45.00		160		\$ 7,200.00
Operator - Loader		\$ 55.00		160		\$ 8,800.00
Operator - Excavator		\$ 55.00		160		\$ 8,800.00
Foreman		\$ 65.00		160		\$ 10,400.00

TOTAL LABOR COST

64,000.00

Equipment

Equipment Type	Supplier	Unit Rate	Units	Quantity	Transportion and Delivery	Total
329 Excavator with Breaker	Wagner Cat	\$ 17,330.00	Month	1	946	\$ 18,276.00
966 Wheel Loader	Wagner Cat	\$ 13,570.00	Month	1	946	\$ 14,516.00
Service Truck		\$ 850.00	Week	4		\$ 3,400.00
Pickup		\$ 400.00	Week	4		\$ 1,600.00
						\$ -
						\$ -

TOTAL EQUIPMENT COST

37,792.00

Materials

Description	Supplier	Unit Cost	Units	Quantity	Sales Tax (Enter as a decimal)	Shipping and Handling	Total
Diesel Fuel		\$ 2.75	Gallon	1280			\$ 3,520.00
							\$ -
							\$ -
							\$ -

TOTAL MATERIAL COST 3,520.00 \$

Laboratory Services

Test	Laboratory	Unit Cost	No. of Tests	;	Subtotal	Turnaround Time	% Premium Expidited TAT (Enter as a decimal)	Total
				\$	-			\$ -
				\$	-			\$ -
				\$	-			\$ -
				\$	-			\$ -
				\$	-			\$ -
				\$	-			\$ -

TOTAL LABORATORY SERVICES COST

Subcontractors

Service	Supplier	Unit Cost	Units	Quantity	Total
Crane - 190 Ton	SOCO	\$ 380.00	Hours	160	\$ 60,800.00
Crane Mob/Demob	SOCO	\$ 380.00	Hours	16	\$ 6,080.00
Debris Disposal		\$ 35.00	Ton	500	\$ 17,500.00
Trucking		\$ 96.00	Hours	160	\$ 15,360.00

TOTAL SUBCONTRACTOR COST

\$ 99,740.00

TOTAL COST FOR Plant Removal \$ 205,052.00

Estimate Date: March 3, 2022

Task Number: 4 Task Description: Site Cleanup

Labor

Labor Category	Individual	Rate (Regular)	Rate (O.T.)	Hours (Regular)	Hours (O.T.)	Total
Laborer		\$ 45.00		320		\$ 14,400.00
Laborer		\$ 45.00		320		\$ 14,400.00
Laborer		\$ 45.00		320		\$ 14,400.00
Laborer		\$ 45.00		320		\$ 14,400.00
Laborer		\$ 45.00		320		\$ 14,400.00
Laborer		\$ 45.00		320		\$ 14,400.00
Operator - Loader		\$ 55.00		320		\$ 17,600.00
Operator - Excavator		\$ 55.00		320		\$ 17,600.00
Operator - Excavator		\$ 55.00		320		\$ 17,600.00
Foreman		\$ 65.00		320		\$ 20,800.00

TOTAL LABOR COST \$ 160,000.00

Equipment

Equipment Type	Supplier	Unit Rate	Units	Quantity	Transportion and Delivery	Total
966 Wheel Loader	Wagner Cat	\$ 13,570.00	Month	2		\$ 27,140.00
Service Truck		\$ 850.00	Week	8		\$ 6,800.00
Pickup		\$ 400.00	Week	8		\$ 3,200.00
329 Excavator	Wagner Cat	\$ 11,320.00	Month	2		\$ 22,640.00
330 Excavator & Breaker	Wagner Cat	\$ 17,331.00	Month	3		\$ 51,993.00
						\$ -

TOTAL EQUIPMENT COST \$ 111,773.00

Materials

Description	Supplier	Unit Cost	Units	Quantity	Sales Tax (Enter as a decimal)	Shipping and Handling	Total
Diesel Fuel		\$ 2.75	Gallons	2400			\$ 6,600.00
							\$ -
							\$ -
							\$ -

TOTAL MATERIAL COST \$ 6,600.00

Laboratory Services

Test	Laboratory	Unit Cost	No. of Tests	Subtotal	Turnaround Time	% Premium Expidited TAT (Enter as a decimal)	Total
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -
				\$ -		•	\$ -

TOTAL LABORATORY SERVICES COST

Subcontractors

Service	Supplier	Unit Cost	Units	Quantity	Total
Concrete Disposal		\$ 8.56	Cubic Yard	6000	\$ 51,360.00
Dumpster Rental - 30 CY	Waste Management	\$ 600.00	Each/week	26	\$ 15,600.00
					\$ _
					\$ -

TOTAL SUBCONTRACTOR COST

\$ 66,960.00

TOTAL COST FOR Site Cleanup \$ 345,333.00

^{*} assumes two - 4 person crews - 3 months onsite

Estimate Date: March 3, 2022

Task Number: 5 Task Description: Fill Placement 750,000 Cubic Yards

Labor

Labor Category	Individual	Rate (Regular)	Rate (O.T.)	Hours (Regular)	Hours (O.T.)	Total
Operator - Loader		\$ 55.00		640		\$ 35,200.00
Operator - Dozer		\$ 55.00		640		\$ 35,200.00
Teamster - Water Truck		\$ 50.00		640		\$ 32,000.00
Teamster- Haul Truck X 2		\$ 50.00		1280		\$ 64,000.00
Foreman		\$ 65.00		640		\$ 41,600.00

TOTAL LABOR COST \$ 208,000.00

Equipment

Equipment Type	Supplier	Unit Rate	Units	Quantity	 portion elivery	Total
D9 Dozer	Wagner	\$ 31,720.00	Month	4	\$ -	\$ 126,880.00
966 Loader	Wagner	\$ 13,570.00	Month	4		\$ 54,280.00
Service Truck		\$ 850.00	Month	4		\$ 3,400.00
Pickup		\$ 400.00	Month	4		\$ 1,600.00
Water Truck - 5,000 gallon	Wagner	\$ 8,100.00	Month	4	\$ -	\$ 32,400.00
Volvo A45G Haul Truck x 2	PECO	\$ 18,500.00	Month	8		\$ 148,000.00

TOTAL EQUIPMENT COST \$ 366,560.00

Materials

Description	Supplier	Unit Cost	Units	Quantity	Sales Tax (Enter as a decimal)	Shipping and Handling	Total
Diesel Fuel		\$ 2.75	Gallon	9000			\$ 24,750.00
							\$ -
							\$ -
							\$ -

TOTAL MATERIAL COST \$ 24,750.00

\$

Laboratory Services

East atoly Col vices							
Test	Laboratory	Unit Cost	No. of Tests	Subtotal	Turnaround Time	% Premium Expidited TAT (Enter as a decimal)	Total
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -

TOTAL LABORATORY SERVICES COST

Subcontractors

Service	Supplier	Unit Cost	Units	Quantity	Total
Blasting	Buckley Powder	\$ 0.50	Tons	2,545,000	\$ 1,272,500.00
					\$ -
					\$ -
					\$ -

TOTAL SUBCONTRACTOR COST

\$ 1,272,500.00

TOTAL COST FOR Fill Placement \$ 1,871,810.00

70 acres filled with 12-18 inches of material in the plant area (113,000 yards of material)

^{*}assumes 15 benches 1600 long at 1:1 slope for final relcamation material needed to fill slopes = 632,500 yards or 1,400,000 tons (material to be blasted) 2.2 yds/ton conversion

Estimate Date: March 3, 2022

Task Number: Task Description: Slope Grading 59 Acres

Labor

Labor Category	Individual	Rate (Regular)	Rate (O.T.)	Hours (Regular)	Hours (O.T.)	Total
Operator - Loader		\$ 55.00		640		\$ 35,200.00
Operator - Dozer		\$ 55.00		640		\$ 35,200.00
Teamster- Water Truck		\$ 50.00		640		\$ 32,000.00
Teamster- Haul Truck X 2		\$ 50.00		1280		\$ 64,000.00
Foreman		\$ 65.00		640		\$ 41,600.00
				TOTAL LABOR CO	OST	\$ 208,000.00

Equipment

Equipment Type	Supplier	Unit Rate		Unit Rate Units Qu		nsportion d Delivery	Total
D9 Dozer	Wagner	\$	31,720.00	Month	4		\$ 126,880.00
966 Loader	Wagner	\$	13,570.00	Month	4		\$ 54,280.00
Service Truck		\$	850.00	Week	16		\$ 13,600.00
Pickup		\$	400.00	Week	16		\$ 6,400.00
Water Truck - 8,000 gallon	Wagner	\$	2,890.00	Month	4		\$ 11,560.00
Volvo A45G Haul Truck x 2	PECO	\$	18,500.00	Month	8	\$ 1,920.00	\$ 149,920.00

TOTAL EQUIPMENT COST 362,640.00

Materials

Description	Supplier	Unit Cost	Units	Quantity	Sales Tax (Enter as a decimal)	Shipping and Handling	Total
Diesel Fuel		\$ 2.75	Gallon	9000			\$ 24,750.00
							\$ -
							\$ -
							\$ -

TOTAL MATERIAL COST 24,750.00

Laboratory Services

Test	Laboratory	Unit Cost	No. of Tests	Subtotal	Turnaround Time	% Premium Expidited TAT (Enter as a decimal)	Total
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -

TOTAL LABORATORY SERVICES COST \$

Subcontractors

Service	Supplier	Unit Cost	Units	Quantity	Total
					\$ -
					\$ -
					\$ -
					\$ -

TOTAL SUBCONTRACTOR COST

TOTAL COST FOR Slope Grading \$ 595,390.00

Assumes 59 acres is graded with dozer Assumes dozer on average pushed 1.0 foot of material Blasted Yards pushed 104,000 yards

Estimate Date: March 3, 2022

Task Number:7Task Description: Finish Grading70 Acres

Labor

Labor Category	Individual	Rate (Regular)	Rate (O.T.)	Hours (Regular)	Hours (O.T.)	Total
Operator - Grader		\$ 55.00		320		\$ 17,600.00
Teamster - Water Truck		\$ 50.00		320		\$ 16,000.00
Teamster- Haul Truck X 2		\$ 50.00		640		\$ 32,000.00
Foreman		\$ 65.00		320		\$ 20,800.00

TOTAL LABOR COST \$ 86,400.00

Equipment

Equipment Type	Supplier	Unit Rate	Units	Quantity	Transportion and Delivery	Total
Grader - Cat 140		\$ 10,810.00	Month	2	\$ 3,860.00	\$ 25,480.00
Water Truck - 5,000 gallon	Wagner	\$ 8,100.00	Month	2	\$ 2,890.00	\$ 19,090.00
Volvo A45G Haul Truck x 2	PECO	\$ 18,500.00	Month	4		\$ 74,000.00

TOTAL EQUIPMENT COST \$ 118,570.00

Materials

Description	Supplier	Unit Cost	Units	Quantity	Sales Tax (Enter as a decimal)	Shipping and Handling	Total
Diesel Fuel		\$ 2.75	Gallon	1600			\$ 4,400.00
							\$ -
							\$ -
							\$ -

TOTAL MATERIAL COST \$ 4,400.00

Laboratory Services

Test	Laboratory	Unit Cost	No. of Tests	Subtotal	Turnaround Time	% Premium Expidited TAT (Enter as a decimal)	T	otal
				\$ -			\$	-
				\$ -			\$	-
				\$ -			\$	-
				\$ -			\$	-
				\$ -			\$	-
				\$ -			\$	-

TOTAL LABORATORY SERVICES COST \$

Subcontractors

Service	Supplier	Unit Cost	Units	Quantity	Total
					\$ -
					\$ -
					\$ -
					\$ -

TOTAL SUBCONTRACTOR COST \$

TOTAL COST FOR Finish Grading \$ 209,370.00

top slope material 100,000 yards

Estimate Date: March 3, 2022

 Task Number:
 8
 Task Description: Soil Amendment
 70 Acres

Labor

Labor Category	Individual	Rate (Regular)	Rate (O.T.)	Hours (Regular)	Hours (O.T.)	Total
Operator - Disc		\$ 55.00		80		\$ 4,400.00
Teamster - Water Truck		\$ 50.00		80		\$ 4,000.00
Teamster- Haul Truck X 2		\$ 50.00		160		\$ 8,000.00
Foreman		\$ 65.00		80		\$ 5,200.00

TOTAL LABOR COST \$ 21,600.00

Equipment

Equipment Type	Supplier	Unit Rate		Units	Quantity	Transportion and Delivery		Total
Tractor with Disc		\$	9,010.00	Week	2	\$	500.00	\$ 18,520.00
Water Truck - 5,000 gallon	Wagner	\$	2,890.00	Week	2	\$	500.00	\$ 6,280.00
								\$ -
								\$ -
								\$ -
Volvo A45G Haul Truck x 2	PECO	\$	6,500.00	Week	4			\$ 26,000.00

TOTAL EQUIPMENT COST \$ 50,800.00

Materials

Description	Supplier	Unit Cost	Units	Quantity	Sales Tax (Enter as a decimal)	Shipping and Handling	Total
Soil Amendment		\$ 55.00	Ton	1,900		\$ 10,472.00	\$ 114,972.00
Diesel Fuel		\$ 2.75	Gallon	300			\$ 825.00
							\$ -
							\$ -

TOTAL MATERIAL COST \$ 115,797.00

Laboratory Services

Test	Laboratory	Unit Cost	No. of Tests	Subtotal	Turnaround Time	% Premium Expidited TAT (Enter as a decimal)	Total
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -
				\$ -		•	\$ -

TOTAL LABORATORY SERVICES COST \$

Subcontractors

Service	Supplier	Unit Cost	Units	Quantity	Total
					\$ -
					\$ -
					\$ -
					\$ -

TOTAL SUBCONTRACTOR COST

TOTAL COST FOR Soil Amendment \$ 188,197.00

Estimate Date: March 3, 2022

Task Number: 9 Task Description: Revegetation 130 Acres

Labor

Labor Category	Individual	Rate (Regular)	Rate (O.T.)	Hours (Regular)	Hours (O.T.)	Total
Operator - Seeder		\$ 55.00		320		\$ 17,600.00
						\$ -
Foreman		\$ 65.00		320		\$ 20,800.00
						\$ -

TOTAL LABOR COST \$ 38,400.00

Equipment

Equipment Type	Supplier	Unit Rate	Units	Quantity	Transportion and Delivery	Total
Tractor with Seeder		\$ 1,575.00	Week	4	\$ 500.00	\$ 6,800.00
						\$
						\$ -
						\$ -
						\$ -
						\$ -

TOTAL EQUIPMENT COST \$ 6,800.00

Materials

Description	Supplier	Unit Cost	Units	Quantity	Sales Tax (Enter as a decimal)	Shipping and Handling	Total
Seed - 16 pounds/acre	Great Basin Seed (plant area)	\$ 4.7	Pound	2040		\$ 50.00	\$ 9,740.00
Diesel Fuel		\$ 2.7	Gallon	600			\$ 1,650.00
						\$ 50.00	\$ 50.00
							\$ -

TOTAL MATERIAL COST \$ 11,440.00

Laboratory Services

Test	Laboratory	Unit Cost	No. of Tests	S	Subtotal	Turnaround Time	% Premium Expidited TAT (Enter as a decimal)	То	tal
				\$	-			\$	-
				\$	-			\$	-
				\$	-			\$	-
				\$	-			\$	-
				\$	-			\$	-
				\$	-			\$	-

TOTAL LABORATORY SERVICES COST

Subcontractors

Service	Supplier	Unit Cost	Units	Quantity	Total
Hydroseed Slopes		\$ 2,700.00	Acre	60	\$ 162,000.00
					\$ -
					\$ -
					\$ -

TOTAL SUBCONTRACTOR COST

\$ 162,000.00

TOTAL COST FOR Revegetation \$ 218,640.00

Assumes 60 acres of hydroseeding 70 acres of drill seeding

Project Name: Project Location: Spec Agg Reclamation Jefferson County, Colorado

Estimate Date: March 3, 2022

Task Number: 10 Task Description: Reclamation Monitoring

Labor

Labor Category	Individual	Rate (Regular)	Rate (O.T.)	Hours (Regular)	Hours (O.T.)	Total	
						\$ -	
						\$ -	
						\$ -	
						\$ -	

TOTAL LABOR COST

Equipment

Equipment Type	Supplier	Unit Rate	Units	Quantity	Transportion and Delivery	Total	
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-

TOTAL EQUIPMENT COST

Materials

Description	Supplier	Unit Cost	Units	Quantity	Sales Tax (Enter as a decimal)	Shipping and Handling	Total
							\$ -
							\$ -
							\$ -
							\$ -

TOTAL MATERIAL COST

Laboratory Services

Test	Laboratory	Unit Cost	No. of Tests	Subtotal	Turnaround Time	% Premium Expidited TAT (Enter as a decimal)	Total
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -
				\$ -		•	\$ -
				\$ -			\$ -

TOTAL LABORATORY SERVICES COST

Subcontractors

Service	Supplier	Unit Cost	Units	Quantity		Total
Engineer		\$ 150.00	Hours	320	\$	48,000.00
					\$	-
					\$	-
					\$	-
TOTAL SUBCONTRACTOR COST						48,000.00

TOTAL COST FOR Reclamation Monitoring

48,000.00

Project Name: Project Location: Spec Agg Reclamation Jefferson County, Colorado

Estimate Date: March 3, 2022

Task Number: 11 Task Description: Miscellaneous 2

Labor

Labor Category	Individual	Rate (Regular)	Rate (O.T.)	Hours (Regular)	Hours (O.T.)	Total
						\$ -
						\$ -
						\$ -
						\$ -

TOTAL LABOR COST

Equipment

Equipment Type	Supplier	Unit Rate	Units	Quantity	Transportion and Delivery	Total
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -

TOTAL EQUIPMENT COST

Materials

Description	Supplier	Unit Cost	Units	Quantity	Sales Tax (Enter as a decimal)	Shipping and Handling	Total
							\$ -
							\$ -
							\$ -
							\$ -

TOTAL MATERIAL COST

Laboratory Services

Test	Laboratory	Unit Cost	No. of Tests	Subtotal	Turnaround Time	% Premium Expidited TAT (Enter as a decimal)	Total
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -
				\$ -			\$ -
				\$ -		•	\$ -
				\$ -			\$ -

TOTAL LABORATORY SERVICES COST

Subcontractors

Service	Supplier	Unit Cost	Units	Quantity	Total
					\$ -
					\$ -
					\$ -
					\$ -

TOTAL SUBCONTRACTOR COST

TOTAL COST FOR _____ Miscellaneous 2 \$







